

Santesson's Checklist of Fennoscandian Lichen-Forming and Lichenicolous Fungi

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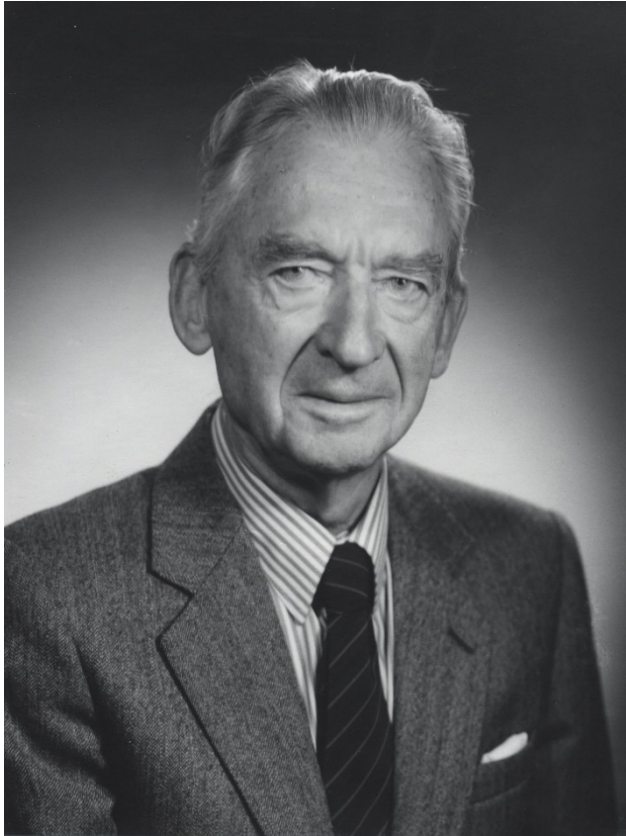
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Santesson's Checklist of Fennoscandian Lichen-Forming and Lichenicolous Fungi



Rolf Santesson (1916–2013), legendary lichenologist and founder of the Fennoscandian lichen checklist project.

Introduction

The first edition of the checklist *The Lichens of Sweden and Norway* by Rolf Santesson appeared in 1984 (Santesson 1984) and represented a huge step forward to the knowledge of Scandinavian lichens. A second edition in 1993 was extended to also include the lichenicolous fungi (Santesson 1993). The third and last printed version widened the geographical scope to include Finland and was based on a collaboration with colleagues from Finland, Norway, and Sweden to provide a complete checklist for Fennoscandia (Santesson et al. 2004). However, this did not in any way mark the end of the checklist

project. The checklist continued to be updated with new knowledge of Fennoscandian lichens and lichenicolous fungi, with, e.g., substantial updates to Norwegian and Finnish lichens by Tor Tønsberg and Orvo Vitikainen. In 2008, the checklist was transformed into a database maintained by the Museum of Evolution at Uppsala University, and in 2010 the database was published online (www.evolutionsmuseet.uu.se/databaser/santesson.html). This website recently became unavailable because of problems with the web server, which led to the prompt decision to provide the checklist as an e-book. The checklist is based on an extract from the database on 27 May 2021 and is divided into two sections. The first part includes all taxa in alphabetical order, with accepted taxa in bold and excluded taxa (e.g., erroneous reports and names with unknown application) in regular font. The second part is an index to all names sorted by epithet, with names of accepted taxa in bold and synonyms and names not accepted by us in regular font. For synonyms, a pointer to the accepted taxon is provided.

Geographic and taxonomic scope

The geographical scope includes the current borders of Sweden, Norway, and Finland. The checklist includes lichens (including facultative lichens), lichenicolous fungi (indicated by an asterisk), facultatively lichenicolous fungi (indicated by an asterisk within brackets), and saprophytic fungi (indicated by a plus sign) traditionally studied by lichenologists (e.g. *Chaenothecopsis* and *Phaeocalicium*) or closely related to or easily mistaken for lichenicolous fungi (e.g. *Monodictys cellulosa* and *Epicoccum nigrum*).

The current number of species in the three individual countries is listed in Table 1. The total number of species in the checklist has increased by 380 species from 2844 to 3224 between the last printed book in 2004 and now. This represents a net discovery rate of c. 22 species per year, a rate that so far shows no tendency to decline.

Accepted names and authors

Under each accepted taxon we list selected synonyms of relevance to Fennoscandia. Author abbreviations follow the International Plant Names Index (IPNI, www.ipni.org). For names with more than two authors we cite the first author followed by “et al.” (ICN Rec. 46C.2).

Ecology

A short description of habitat choice is provided for each taxon, which refers exclusively to conditions in Fennoscandia. More detailed statements are often found in the cited publications. For lichenicolous fungi, only Fennoscandian host lichens are reported.

Table 1. Number of known species on 27 May 2021.

	Sweden	Norway	Finland	Fennoscandia
Lichens	2211	2110	1743	2653
Lichenicolous fungi	412	348	220	519
Saprophytic fungi	33	36	28	46
Total	2656	2494	1991	3220

Literature references

References to publications are primarily those considered to be of importance to the area. Full references are provided at the end of the book.

Distribution

An overview of the distribution of the species within each country is provided. For this purpose, we have retained the Norwegian counties used in the former checklists instead of adjusting to the new administrative subdivision officially adopted in 2020. The distributional information is in need of a thorough revision, which we plan to carry out in the coming years. For Norway and Finland, an interval between two provinces (e.g., “Øf–Bu”) means that the species has been recorded from each of the intervening provinces according to the order of list below (in this example consequently from each of the provinces Øf, Ak, He, Op, and Bu). Distributional information for Sweden is of lower quality, an effect of the history of this checklist. An interval between two Swedish provinces (e.g., “Sk–TL”) means that the species has been recorded from most but not necessarily all of the intervening provinces. Swedish distributions of marine or coastal species may also be provided as an interval (e.g., “Bh–Sk–Upl”) that should be understood to include only provinces with a coastline (in this example Bh, Hl, Sk, Bl, Öl, Gtl, Sm, Ög, Srm, and Upl). In some well-documented cases, provinces from which a species has become extinct are indicated by brackets around the province name.

Acknowledgements

We gratefully acknowledge colleagues who have contributed to the checklist and development of the database in the past: Tor Tønsberg, Orvo Vitikainen, Åsa Dalsätt, and Daniel Snitting. Many users of the checklist have provided comments and updates and we especially want to thank Göran Thor and Måns Svensson for valuable contributions. Maintaining the database is financially supported by SLU Artdatabanken (Swedish Species Information Centre) through museum support to the Museum of Evolution.

Province abbreviations

Sweden – S

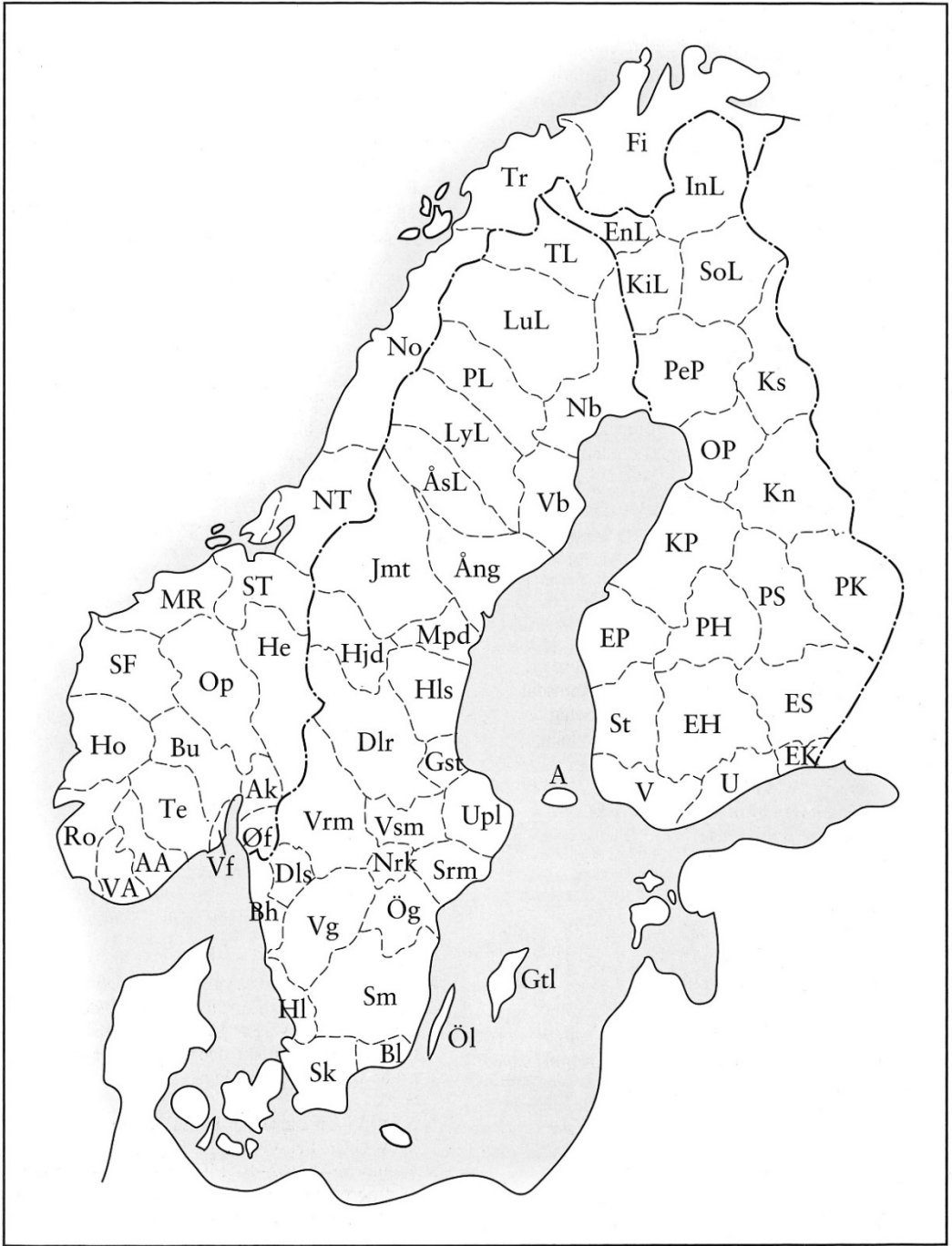
Sk	Skåne
Bl	Blekinge
Öl	Öland
Gtl	Gotland
Sm	Småland
Hl	Halland
Bh	Bohuslän
Dls	Dalsland
Vg	Västergötland
Ög	Östergötland
Nrk	Närke
Srm	Södermanland
Vrm	Värmland
Vsm	Västmanland
Upl	Uppland
Dlr	Dalarna
Gst	Gästrikland
Hls	Hälsingland
Mpd	Medelpad
Ång	Ångermanland
Hrj	Härjedalen
Jmt	Jämtland
Vb	Västerbotten
Nb	Norrbottn
ÅsL	Åsele lappmark
LyL	Lycksele lappmark
PL	Pite lappmark
LuL	Lule lappmark
TL	Torne lappmark

Norway – N

Øf	Østfold
Ak	Akershus (here incl. Oslo)
He	Hedmark
Op	Oppland
Bu	Buskerud
Vf	Vestfold
Te	Telemark
AA	Aust-Agder
VA	Vest-Agder
Ro	Rogaland
Ho	Hordaland
SF	Sogn og Fjordane
MR	Møre og Romsdal
ST	Sør-Trøndelag
NT	Nord-Trøndelag
No	Nordland
Tr	Troms
Fi	Finnmark

Finland – F

A	Ahvenanmaa; Åland; Aalandia
V	Varsinais-Suomi; Regio aboënsis
U	Uusima; Nylandia
EK	Etelä-Karjala; Karelia australis
St	Satakunta
EH	Etelä-Häme; Tavastia australis
ES	Etelä-Savo; Savonia australis (incl. also LK = Ladoga Karelen; Karelia ladogensis)
EP	Etelä-Pohjanmaa; Ostrobotnia australis
PH	Pohjois-Häme; Tavastia borealis
PS	Pohjois-Savo; Savonia borealis
PK	Pohjois-Karjala; Karelia borealis
KP	Keski-Pohjanmaa; Ostrobotnia media
Kn	Kainuu; Ostrobotnia kajanensis
OP	Oulun Pohjanmaa; Ostrobotnia ouluensis
PeP	Perä-Pohjanmaa; Ostrobotnia ultima
Ks	Koillismaa; Regio kusamoënsis
KiL	Kittilän Lappi; Lapponia kittilensis
SoL	Sompion Lappi; Lapponia sompiensis
EnL	Enontekiön Lappi; Lapponia enontekiensis
InL	Inarin Lappi; Lapponia inarensis



Index of taxa

* **Abrothallus acetabuli Diederich**

On *Pleurosticta acetabulum*.

S Vg

N -

F -

Isaksson 2019

* **Abrothallus bertianus De Not.**

Abrothallus glabratulae Kotte

Not in F, N or S, according to Ihlen & Wedin (2008, p. 297).

* **Abrothallus caerulescens Kotte**

On *Xanthoparmelia conspersa*, *X. stenophylla* (thallus, apothecia).

S Sk Ög Srm Upl Dlr Jmt

N Op

F V EH

Kotte 1909, Santesson 1986, Alstrup & Ahti 2007

* **Abrothallus cetrariae Kotte**

On *Platismatia glauca*, *P. norvegica* (thallus).

S Sk-Jmt

N ST-No

F V PS PK

Kotte 1909, Santesson 1988, Santesson 1994a

* **Abrothallus cladoniae R.Sant. & D.Hawksw.**

Not in F, N or S. Report from S refers to *Abrothallus pezizicola*.

Hawksworth 1990

* **Abrothallus halei Pérez-Ortega et al.**

On thallus of *Lobaria pulmonaria* on trunk of *Salix caprea*.

S -

N ST (R. Santesson 1961 Rissa)

F -

Suija et al. 2011

* **Abrothallus lobariae (Diederich & Etayo) Diederich & Ertz**

Phoma lobariae Diederich & Etayo

On *Lobaria pulmonaria* (thallus).

S -

N NT No Tr?

F -

Alstrup et al. 2008, Diederich et al. 2018

***Abrothallus nephromatis** Suija & Pérez-Ortega

On *Nephroma* spp (thallus).

S Htrj LuL

N ST NT

F -

Suija et al. 2015

***Abrothallus parmeliarum** (Sommerf.) Arnold

Abrothallus bertianus auct. scand.

Abrothallus smithii Tul.

Abrothallus tulasnei M.S.Cole & D.Hawksw., uncertain synonym

On the thallus of several species of *Parmelia*, *Melanohalea*, *Montanelia*, *Xanthoparmelia* and *Cetraria*.

S Sk-TL

N Ak He Op Te AA Ho-Fi

F A-St EH ES PS PK OP Ks SoL InL

Sommerfelt 1826, Magnusson 1952a, Hawksworth & Minter 1980, Santesson 1984b, Øvstedal 1986, Alstrup & Ahti 2007, Ihlen & Wedin 2008

***Abrothallus peyritschii** (Stein) Kotte

Abrothallus parmeliarum var. *peyritschii* Stein

On *Vulpicida tubulosus*, *V. pinastri* (thallus).

S ÖI Vg Srm

N -

F A V EH

von Keissler 1930

***Abrothallus pezizicola** Diederich & R.C.Harris

On *Cladonia grayi* (podetia).

S Vsm (Sala 1958 R. Santesson)

N -

F -

Diederich 2003

***Abrothallus prodiens** (Harm.) Diederich & Hafellner

Abrothallus parmeliarum f. *prodiens* (Harm.) Vouaux

On *Hypogymnia physodes* (thallus).

S Upl

N -

F A V EH

Diederich 1989, Diederich 1990, Alstrup & Ahti 2007

***Abrothallus suecicus** (Kirschst.) Nordin

Leciographa suecica Kirschst.

On *Ramalina fraxinea*, *R. fastigiata*, *R. calicaris*, *R. dilacerata*, *R. sinensis* (apothecia, rarely thallus).

S Sk-LuL

N Øf Op

F V U PeP Ks

Nordin 1964, Santesson 1984b, Santesson 1986, Hedenås 2002

***Abrothallus usneae Rabenh.**

On *Usnea subfloridana* (thallus).

S -

N MR (Vestnes 1997 Gaarder)

F -

Holien 2001

***Abrothallus welwitschii Mont. ex Tul.**

Not in F, N or F. Reports from N and S refer to *Abrothallus nephromatis*.

Clauzade et al. 1989

Absconditella annexa (Arnold) Vězda

Gyalecta annexa (Arnold) H.Olivier

On bryophytes and plant debris.

S Hřj TL

N Tr Fi

F -

Vězda 1965b, Stridvall & Stridvall 2008, Westberg et al. 2016

Absconditella celata Döbbeler & Poelt

On dead *Sphagnum*, lignum of *Pinus* and on old moose dung.

S Bh Upl Jmt TL

N NT

F PK

Döbbeler & Poelt 1977, Holien et al. 2016a

Absconditella delutula (Nyl.) Coppins & H.Kilias

Absconditella modesta (Hegetschw. ex Stizenb.) Vězda

On decaying wood.

S Sm Hl Vg Ög Dlr Gstr Hls

N Øf

F V

Vězda 1965b, Hawksworth et al. 1980, Kilias 1981, Arup et al. 1997, Thor & Arvidsson 1999, Hermansson 2008a

Absconditella lignicola Vězda & Pišút

On decaying wood, primarily of conifers.

S Gtl Sm Vg Ög Srm Vsm Upl Dlr Hls

N Ak Bu

F V EH PK Kn

Vězda & Pisut 1984, Westberg et al. 2005, Johansson 2006, Svensson et al. 2017b

Absconditella pauxilla Vězda & Vivant

On bark of *Alnus*, *Populus* and *Juniperus*, on lignum of conifers.

S Upl Dlr Hls

N ST

F -

Vězda & Vivant 1975, Ågren 1995, Hermansson 2008a, Frisch et al. 2020a

Absconditella sphagnum Vězda & Poelt

On dead Sphagnum in bog hummocks.

S Sk Sm-Jmt LyL (TL?)

N Ro Ho

F U EH PK EnL

Vězda 1965b, Huuskonen 1976, Sherwood 1977, Øvstedal 1979, Nordin 2002b

Absconditella trivialis (Willey ex Tuck.) Vězda

Gyalecta geoica f. *trivialis* Willey ex Tuck.

On acidic mineral soil rich in humus.

S Hl Srm Upl Dlr

N Ho No

F -

Vězda 1965b, Hermansson 2008a

Acarospora admissa (Nyl.) Kullh.

Lecanora admissa Nyl.

On diabase rock.

S Vg

N -

F EH

Magnusson 1929a, Magnusson 1935c

Acarospora anomala H.Magn.

Lignicolous, on dust-enriched wood.

S (Vg) (Vsm) Upl Dlr

N -

F V St EP PS PeP

Magnusson 1924b, Magnusson 1929a, Magnusson 1935c, Poelt & Huneck 1968, Thor 1996, Thor & Arvidsson 1999

Acarospora argillacea (Arnold) Hue

On clay soil.

S Bl (Vämö 1872 Falk & Swanlund)

N -

F -

Magnusson 1924b, Magnusson 1929a, Magnusson 1935c

Acarospora atrata Hue

On sun-exposed siliceous rocks.

S Sk-Dls

N Ro

F -

Magnusson 1926a, Magnusson 1929a, Magnusson 1935c, Magnusson 1939b, Magnusson 1949a

Acarospora badiofusca (Nyl.) Th.Fr.

Acarospora umensis H.Magn.

On siliceous rock; somewhat nitrophilous.

S Ög Htj-TL

N Ho ST Tr

F InL

Magnusson 1924b, Magnusson 1929a, Magnusson 1935c

Acarospora brunneola Norman ex H.Magn.

On seashore rocks (mica schist, etc.).

S -

N Ak No-Fi

F -

Magnusson 1924b, Magnusson 1929a

Acarospora bullata Anzi

On vertical rock.

S TL (Pältsa 1929 Hasselrot)

N -

F -

Magnusson 1929a, Magnusson 1935c, Magnusson 1942b

Acarospora castaneocarpa M.Westb. & Wedin

On calcareous rock.

S -

N -

F V

Provisionally placed in *Acarospora*; closely related to *A. glaucocarpa*.

Ariyawansa et al. 2015

Acarospora cervina A.Massal.

On calcareous rock; somewhat nitrophilous.

S Öl Gtl Upl

N Ak Ho

F St Kn

Magnusson 1924b, Magnusson 1929a, Magnusson 1935c, Westberg & Fröberg 2007

Acarospora discreta (Ach.) Arnold

Acarospora durietzii H.Magn.

On siliceous rocks.

S LuL

N Ak Op ST Tr Fi

F EP Ks

Magnusson 1924b, Magnusson 1929a, Magnusson 1935c

Acarospora fennica H.Magn.

On concrete.

S -

N -

F V (Turku 1922 Räsänen)

Magnusson 1929a

Acarospora fuscata (Schrad.) Th.Fr.

Trimmatothele glacialis B.Nilsson

On siliceous rock, rarely on wood; somewhat nitrophilous.

S Sk-TL

N Øf-Vf AA-ST No-Fi

F A-OP Ks KiL EnL InL

Magnusson 1924b, Magnusson 1929a, Magnusson 1935c

Acarospora glaucocarpa (Ach.) Körb.

Parmelia glaucocarpa Ach.

On calcareous rocks.

S Sk-TL

N Ak-Bu Te Ho ST-Fi

F V-EK EH ES PS-EnL

Magnusson 1924b, Magnusson 1929a, Magnusson 1935c

Acarospora hospitans H.Magn.

Acarospora impressula var. *hospitans* (H. Magn.) Clauzade & Cl.Roux

On granitic or slightly calcareous rocks, usually on other lichens.

S Vg Jmt Nb TL

N Ho(?) No

F -

Magnusson 1924b, Magnusson 1929a, Magnusson 1935c, Degelius 1982

Acarospora hultingii H.Magn.

On mortar.

S Dls (Bäckefors 1895 Hulting)

N -

F -

Magnusson 1924b, Magnusson 1929a, Magnusson 1935c

Acarospora impressula Th.Fr.

On rock.

S -

N Ak

F V

Magnusson 1924b, Magnusson 1929a, Magnusson 1935c, Jørgensen & Nordin 2009

Acarospora insignis H.Magn.

On siliceous and calcareous rock, occasionally on other lichens.

S Hrj
N Op
F -

Magnusson 1929a, Magnusson 1935c, Westberg et al. 2015a

Acarospora insolata H.Magn.

On sun-exposed more or less steep granitic rocks.

S Hl Bh Vg
N Fi
F -

Magnusson 1924b, Magnusson 1929a, Magnusson 1935c, Magnusson 1935b

Acarospora intermedia H.Magn.

On siliceous rocks.

S Bh(?) Vg
N -
F -

Determ. and sp. somewhat uncertain.

Magnusson 1929a, Magnusson 1935c

Acarospora macrospora (Hepp) A.Massal. ex Bagl.

Acarospora squamulosa sensu Th.Fr.

On calcareous rocks.

S Öl Gtl Srm Upl Dlr Gst Hrj-TL
N Ak-Bu ST-No
F V

Magnusson 1924b, Magnusson 1929a, Magnusson 1935c

Acarospora moenium (Vain.) Räsänen

Aspicilia excavata G.Thor & Timdal

Aspicilia moenium (Vain.) G.Thor & Timdal

Endocarpon moenium Vain.

On mortar and on vertical surfaces of limestone or calcareous schist.

S Sk Sm Ög Srm Vrm Upl-Jmt Vb TL
N Øf Ak Op Bu VA Ho SF ST No Tr
F V-EK EH PS PeP

Thor & Timdal 1986, Thor & Timdal 1992, Nordin et al. 2009

Acarospora molybdina (Wahlenb.) A.Massal.

Acarospora hysgina (Wahlenb.) H.Magn.

Magnusson 1929a

Acarospora molybdina (Wahlenb.) A.Massal. var. confusa H.Magn

On siliceous seashore rocks.

S Bh
N Ak VA-NT
F -

Magnusson 1924b, Magnusson 1929a, Magnusson 1935c

Acarospora molybdina (Wahlenb.) A.Massal. var. molybdina

On granitic or schistose seashore rock; ornithocoprophilous.

S -
N Tr Fi
F -

Magnusson 1929a

Acarospora nitrophila H.Magn.

Acarospora aequatula H.Magn.

Acarospora normanii H.Magn.

Acarospora praeuptorum H.Magn., "praeuptarum"

On nitrogen-enriched siliceous rock.

S Sk Bh Vg Srm Upl Hls Mpd Ång LuL TL
N Ho MR No Tr Fi
F U

Magnusson 1924b, Magnusson 1924c, Magnusson 1929a, Magnusson 1935c, Knudsen & Kocourková 2017

Acarospora oligospora (Nyl.) Arnold

Acarospora glebosa Körb.

Near the ground on siliceous rocks.

S Bl-Vsm
N Ak
F EH

Magnusson 1924b, Magnusson 1929a, Magnusson 1935c

Acarospora privigna (Ach.) A.Sceid.

Lecidea privigna Ach.

Biatorella simplex (Davies) Branth & Rostr.

Polysporina simplex (Davies) Vězda

Sarcogyne simplex (Davies) Nyl.

On siliceous rocks (granite), calcareous schist, often on places exposed to dust, on seashore rocks, etc.

S Sk-TL
N Ak Ro-ST Tr Fi
F EH

Magnusson 1935c, Vězda 1978a

Acarospora pyrenopsoides H.Magn.

On siliceous rock in humid situations.

S Vrm
N AA
F U

Magnusson 1926c, Westberg et al. 2015a

Acarospora rhizobola (Nyl.) Alstrup

Lecanora glaucocarpa var. *endocarpoides* Vain.

Lecidea rhizobola Nyl.

Trimmatothelopsis rhizobola (Nyl.) K.Knudsen & Lendemer

On calcareous soil.

S LuL TL
N Op ST Fi
F PK Ks

Magnusson 1924b, Magnusson 1929a, Alstrup 1979, Alstrup 1986a, Alstrup 1991, Westberg & Svensson 2012, Knudsen & Lendemer 2016

Acarospora rosulata (Th.Fr.) H.Magn.

On siliceous rocks.

S -
N Op
F -

Magnusson 1924b, Magnusson 1929a, Magnusson 1935c, Jørgensen & Nordin 2009

Acarospora rugulosa Kőr.

Acarospora chalcophila H.Magn.

Acarospora hellbomii H.Magn.

Acarospora montana H.Magn.

Polysporinopsis rugulosa (Kőr.) Vězda

On iron- or copper-rich siliceous rock, slates, etc.

S Sm Ög Mpd Hrj Vb
N Op NT
F U

Magnusson 1929a, Magnusson 1935c, Magnusson 1956a, Purvis 1984, Nordin 1996c

Acarospora scrobiculata H.Magn.

On siliceous rock; somewhat nitrophilous.

S -
N Ho (Granvin 1938 Havaas)
F -

Magnusson 1935d, Magnusson 1950b, Magnusson 1956a

Acarospora septentrionalis M.Westb. & Wedin

Acarospora badiofusca var. *glaucocarpoides* H.Magn.

On calcareous schist, dolomite and cement.

S LuL TL
N SF Fi
F -

Provisionally placed in *Acarospora*; closely related to *A. glaucocarpa*., Ariyawansa et al. 2015

Acarospora sinopica (Wahlenb.) Körb.

Polysporinopsis sinopica (Wahlenb.) Vězda

On iron-rich rock.

S Sk-TL

N Øf-Op Te AA Ro-SF ST-Fi

F A-EP PS-KP OP PeP SoL EnL

Magnusson 1924b, Magnusson 1929a, Magnusson 1935c, Wirth 1972

Acarospora squamulosa (Schrad.) Trevis.

Acarospora peliocypha (Wahlenb.) Th.Fr., as "peliocypha"

Parmelia peliocypha Wahlenb., not validly published?

Acarospora peliocypha (Wahlenb.) Th.Fr., orth. var.

Lichen squamulosus Schrad.

On siliceous rocks with a rich supply of nitrogen.

S ÖI Dls Ög-TL

N Ak Op Ho SF ST No-Fi

F V U St-PH OP EnL InL

Magnusson 1924b, Magnusson 1929a, Magnusson 1935c, Knudsen et al. 2019

***Acarospora subfuscescens (Nyl.) H.Magn.**

Polysporina dubia (H.Magn.) Vězda

Sarcogyne dubia H.Magn.

Polysporina ferruginea (Lettau) M.Steiner, uncertain synonym

Acarospora lapponica var. *sileciaca* H.Magn.

Acarospora sileciaca (H.Magn.) H.Magn.

Acarospora sordida var. *urbana* H.Magn.

Lecanora subfuscescens Nyl.

Polysporina subfuscescens (Nyl.) K.Knudsen & Kocourk.

On rock, parasymbiotic on a variety of lichens.

S Sk Bl Hl Bh Vg Nrk Hvj Jmt TL

N Op Ro-MR No-Fi

F -

Knudsen & Kocourková 2008, Svensson et al. 2011, Hemberg 2014

Acarospora umbilicata Bagl.

On sandstone, etc.

S Vg Dlr

N Ak Bu

F -

Magnusson 1929a, Magnusson 1935c, Magnusson 1939b, Magnusson 1942b, Hermansson 2008a

Acarospora wahlenbergii H.Magn.

Mainly on metal-rich and slightly calcareous rock.

S Hvj LuL TL

N Op Ho ST Tr

F -

Magnusson 1924b, Magnusson 1929a, Magnusson 1935c, Timdal 1982

Acarospora veronensis A.Massal.

Acarospora fuscata subsp. *discreta* sensu Th.Fr.

On siliceous rock; somewhat nitrophilous.

S Sk-TL

N Op Ho ST No Tr

F A-EK EH EP PS PeP KiL

Magnusson 1924b, Magnusson 1929a, Magnusson 1935c

Acarospora versicolor Bagl. & Carestia

On granitic rocks, sandstone etc.

S -

N Op Bu

F EH

Magnusson 1935c, Westberg et al. 2015a

***Acarosporium lichenicola Ihlen & Tønsberg**

On *Icmadophila ericetorum* (ap.).

S -

N Ak (Oslo, Østmarka 1994 Tønsberg).

F -

Ihlen 1998

Acolium inquinans (Sm.) A.Massal.

Cyphelium inquinans (Sm.) Trevis.

Cyphelium tympanellum (Ach.) Ach.

Mainly on lignum, sometimes acidic tree bark, rarely saxicolous.

S Sk-TL

N Øf-Bu Te AA Ho-Fi

F A-InL

Tibell 1969, Tibell 1971, Tibell 1980b, Middelborg & Mattsson 1987, Tibell 1999a, Prieto & Wedin 2017

Acolium karelicum (Vain.) M.Prieto & Wedin

Cyphelium karelicum (Vain.) Räsänen

Cyphelium lucidum var. *karelicum* Vain.

Mainly on bark of *Picea*, sometimes on *Pinus* and *Quercus*, rarely lignicolous.

S Vg-TL

N He-Bu Te ST NT

F EH-EP PS-Kn PeP-KiL InL

Tibell 1969, Tibell 1971, Tibell 1980b, Middelborg & Mattsson 1987, Thor & Arvidsson 1999, Tibell 1999a, Prieto & Wedin 2017

***Acolium sessile (Pers.) Arnold**

Calicium sessile Pers.

Cyphelium sessile (Pers.) Trevis.

On *Pertusaria* spp., mainly on *P. coccodes* (thallus).

S Sk-Dlr

N Øf

F A U Kn

Tibell 1969, Tibell 1971, Tibell 1980b, Thor & Arvidsson 1999, Tibell 1999a, Prieto & Wedin 2017, Klepsland 2020

***Acremonium rhabdosporum W.Gams**

On Pleurosticta acetabulum (dead thallus).

S Vg (Falköping 1945 R. Santesson)

N -

F -

Anamorph of Trichonectria rubifaciens according to Lowen (1995, p. 91).

Hawksworth 1979a, Diederich 1989

Acrocordia cavata (Ach.) R.C.Harris

On rough bark of deciduous trees, often Populus tremula.

S Sk-Hls Ång

N Op Te ST

F A-U St

Vězda 1974, Harris 1975, Coppins & James 1978, Arvidsson et al. 1988, Arup et al. 1997, Thor & Arvidsson 1999

Acrocordia conoidea (Fr.) Körb.

Arthopyrenia conoidea (Fr.) Zahlbr.

Arthopyrenia epipolaea (Borrer) A.Massal.

On calcareous rocks.

S ÖI Gtl Dls Vg Ög Srm Vsm

N Ho No

F V

von Keissler 1936, Vězda 1961b, Swinscow 1970

Acrocordia gemmata (Ach.) A.Massal.

Acrocordia alba (Schrad.) B.de Lesd.

Arthopyrenia alba (Schrad.) Zahlbr.

Arthopyrenia gemmata (Ach.) A.Massal.

Acrocordia glauca Körb.

Arthopyrenia glauca (Körb.) Vain.

Acrocordia sphaeroides (Wallr.) Arnold

Arthopyrenia sphaeroides (Wallr.) Zahlbr.

Arthopyrenia tersa auct., non Körb.

On rough bark of deciduous trees.

S Sk-Hls Ång

N Øf-AA Ro-NT

F A-U

Kärenlampi 1965, Poelt & Vězda 1977

Acrocordia macrospora A.Massal.

On sun-exposed phyllite.

S -

N Ro Ho

F -

Poelt & Vězda 1977, Botnen 1984

Acrocordia salweyi (Leight. ex Nyl.) A.L.Sm.

Arthopyrenia salweyi (Nyl.) Zahlbr.

On calcareous rocks.

S Gtl

N Ho

F -

Magnusson 1955, Vězda 1961b, Swinscow 1970, Botnen 1984

Acrocordia subglobosa (Vězda) Vězda & Poelt

Arthopyrenia subglobosa Vězda

On calcareous rocks.

S -

N -

F V (Lohja 2007, Pykälä)

Vězda 1961b, Pykälä 2008

***Adelococcus alpestris (Zopf) Theiss. & Syd.**

On Acarospora macrospora s. lat.

S Gtl

N -

F -

Ekman et al. 2019a

Adelolecia kolaënsis (Nyl.) Hertel & Rambold

Lecidea conferenda Nyl.

Lecidea dolosula (Nyl.) Vain.

Lecidea kolaënsis Nyl.

Lecidea paraphana Nyl.

Catillaria tavastiana H.Magn.

On siliceous as well as calcareous rock, often in overhangs.

S Vg-TL

N Ak Op Tr Fi

F V U St EH PH-Kn PeP-KiL EnL

Fries 1874, Hertel 1975c, Hertel & Rambold 1995

Adelolecia pilati (Hepp) Hertel & Hafellner

Lecidea auriculata var. *hardangeriana* Vain. in Havaas

Lecidea lyngeana Zahlbr.

Lecidea pilati (Hepp) Körb.

Lecidea subauriculata Lynge

On crystalline schist, etc., especially on overhanging rocks.

S Sk Bh Vg Srm Vrm Mpd-TL

N Ak-Op Ho MR-Fi

F InL

Fries 1874, Magnusson 1946, Hertel 1971a, Hertel 1975c, Hertel & Rambold 1995

Agonimia allobata (Stizenb.) P.James

Amphoroblastia allobata (Stizenb.) Servit

Polyblastia allobata (Stizenb.) Zsch.

On deciduous trees.

S Sk ÖI Gtl Sm HI Bh Vg Ög Srm Upl Dlr Gst

N ST

F V EK

Poelt 1969, Nordin et al. 1991, Coppins et al. 1992, Gustavsson 1995, Pykälä 2006

Agonimia gelatinosa (Ach.) M.Brand & Diederich

Polyblastia caliginosa Norman

Polyblastia gelatinosa (Ach.) Th.Fr.

Polyblastia nigrata (Nyl.) Lönnrot

Muscicolous (on soil).

S ÖI Bh Srm Upl-TL

N Op ST No-Fi

F V EnL

To *Leucocarpia*?

Fries 1877, Degelius 1939b, Swinscow 1971, Sérusiaux et al. 1999

Agonimia globulifera M.Brand & Diederich

On calcareous rocks (below *Psora decipiens*).

S ÖI

N -

F V

Sérusiaux et al. 1999

Agonimia repleta Czarnota & Coppins

On twigs of *Salix*.

S LyL

N -

F EH

Czarnota & Coppins 2000, Nordin 2002b, Pykälä 2010a

Agonimia tristicula (Nyl.) Zahlbr.

Endocarpon rivulare Norman

Polyblastia tristicula (Nyl.) Arnold

Endocarpon uvulare Norman

In bryophyte tufts on calcareous rock or soil, rarely on trees.

S Sk-Bh Ög Srm Upl Dlr Gst Jmt LyL TL

N Ro Ho MR NT No-Fi

F A V EnL InL

Fries 1877, Magnusson 1946, Swinscow 1971, Coppins & James 1978, Coppins & Bennell 1979, Christiansen et al. 1979

Agonimia vouauxii (B.de Lesd.) M.Brand & Diederich

On bryophytes on calcareous rocks.

S -
N -
F V

Pykälä 2007

Ainoa mooreana (Carroll) Lumbsch & I.Schmitt

Lecidea brujeriana (Schaer. ex D.Dietr.) Leight.

Lecidea lopadioides (Th.Fr.) Grumann

Lecidea mooreana Carroll

Trapelia mooreana (Carroll) P.James

Lecidea torellii (Anzi) Nyl.

Trapelia torellii (Anzi) Hertel

Saxicolous (on non-calcareous rocks) and terricolous.

S Dlr Jmt
N VA-SF ST NT
F -

Hertel 1969a, Hertel 1970c, Hertel 1975a, Hertel 1977a, Lumbsch et al. 2001, Hermansson 2005b

Alectoria fuscidula (Arnold) Vain. ex Almq.

Nomen ambiguum.

Brodo & Hawksworth 1977

Alectoria nigricans (Ach.) Nyl.

Alectoria furcellata R.Sant.

Gowardia nigricans (Ach.) Halonen et al.

Alectoria thulensis Th.Fr.

On the ground or on rock mainly in alpine areas, rarely on shrubs or trees.

S Dlr Mpd-TL
N He-Bu Te AA Ro-Fi
F PeP-InL

Hakulinen 1965, Hawksworth 1972, Brodo & Hawksworth 1977, Halonen et al. 2009, Crespo et al. 2010, Velmala & Myllys 2011

Alectoria ochroleuca (Hoffm.) A.Massal.

On the ground or on rocks in alpine areas, rarely on shrubs or trees.

S Nrk Upl-TL
N Ak-Bu Te AA Ro-Fi
F EP PeP-InL

Ahlner 1946, Hakulinen 1965, Hawksworth 1972, Brodo & Hawksworth 1977, Velmala & Myllys 2011

Alectoria sarmentosa (Ach.) Ach.

Velmala & Myllys 2011

Alectoria sarmentosa (Ach.) Ach. subsp. sarmentosa

Alectoria albida Räsänen

Mainly on branches of *Picea* and *Pinus*, rarely on other trees, lignum or on the ground.

S BI-TL

N Øf-AA Ro-Fi

F A-SoL InL

Velmala & Myllys 2011

Alectoria sarmentosa (Ach.) Ach. subsp. vexillifera (Nyl.) D.Hawksw.

Alectoria cincinnata (Fr.) Lyngé

Alectoria sarmentosa var. *cincinnata* (Fr.) Nyl.

Alectoria vexillifera (Nyl.) Stizenb.

On the ground or on rocks, mainly in alpine areas.

S Upl Mpd Hvj-Vb LuL TL

N Ho MR No-Fi

F EP PeP Ks EnL InL

Böcher & Christiansen 1941, Ahlner 1948, Hawksworth 1972, Brodo & Hawksworth 1977, Velmala & Myllys 2011

Allantoparmelia alpicola (Th.Fr.) Essl.

Hypogymnia alpicola (Th.Fr.) Hav.

Parmelia alpicola Th.Fr.

On siliceous rock, mainly in mountain areas.

S Dlr Hls-Vb ÅsL-TL

N He-Bu Te-Fi

F EP PeP-InL

Hakulinen 1966, Esslinger 1977, Esslinger 1978, Westberg & Thell 2011a

Allocladium adaequatum (Nyl.) M.Prieto & Wedin

Calicium adaequatum Nyl.

Embolidium adaequatum (Nyl.) Vain.

Calicium marianum (Nádv.) Nádv.

Embolidium marianum Nádv.

On thin twigs of *Alnus incana* and *Populus tremula*.

S Vrm Dlr-Ång Jmt Nb-LuL

N He Op NT

F St-ES PH Kn-Ks

Magnusson 1946, Tibell 1975, Tibell 1977, Middelborg & Mattsson 1987, Owe-Larsson 1994, Thor & Arvidsson 1999, Tibell 1999a, Prieto & Wedin 2017

Alyxoria culmigena (Libert) Ertz

Opegrapha betulinum auct., non Pers.

Opegrapha culmigena Libert

Opegrapha herbarum Mont.

Opegrapha turneri Leight.

Opegrapha varia var. *herbarum* (Mont.)

On bark of deciduous trees and shrubs, Ilex, or on shaded calcareous rock.

S Sk Öl Gtl Bh Vg

N Ro Ho SF NT

F V

Redinger 1938, Almborn 1948, Litterski 1992, Sérusiaux et al. 1999, Frisch et al. 2020a

Alyxoria mougeotii (A.Massal) Ertz et al.

Opegrapha mougeotii A.Massal.

On calcareous rock, schist, etc.

S Öl Gtl Vg Nrk

N Ho

F -

Redinger 1938, Botnen 1984, Frisch et al. 2014

Alyxoria ochrocheila (Nyl.) Ertz & Tehler

Opegrapha ochrocheila Nyl.

Opegrapha rubescens Sandst.

On bark or lignum of old, deciduous trees, rarely on rock.

S Sk Öl-Bh Vg Srm Upl

N VA-Ho MR ST

F -

Almborn 1955b, James 1965, Christiansen et al. 1979, Torrente & Egea 1989, Arup et al. 1997, Thor & Arvidsson 1999, Ertz & Tehler 2011

Alyxoria varia (Pers.) Ertz & Tehler

Opegrapha diaphora Ach.

Opegrapha lichenoides Pers.

Opegrapha notha Ach.

Opegrapha pulicaris auct.

Opegrapha rimalis Pers.

Opegrapha varia Pers.

Opegrapha varia f. *xanthocarpa* Zwackh

Opegrapha xanthocarpa Zwackh ex Nyl.

On bark of deciduous trees, rarely on shaded rock.

S Sk-Hls

N VA-MR

F A-ES PH PS

Redinger 1938, Ertz & Tehler 2011

***Amandinea adjuncta (Th.Fr.) Hafellner**

Buellia adjuncta Th.Fr.

Karschia adjuncta (Th.Fr.) Arnold

On *Lecanora straminea* (thallus).

S -

N No-Fi

F -

Hafellner 1979, Santesson 1984b, Foucard et al. 2002, Hafellner 2004a

Amandinea cacuminum (Th.Fr.) H.Mayrhofer & Sheard

Rinodina cacuminum (Th.Fr.) Malme, nom. illeg.

On siliceous rock; ornithocoprophilous.

S HI-TL

N He-Bu Ho MR-Fi

F A-EH EP OP-Ks EnL InL

Degelius 1939a, Mayrhofer & Moberg 2002a, Mayrhofer & Sheard 2002

Amandinea coniops (Wahlenb.) M.Choisy ex Scheid. & H.Mayrhofer

Buellia coniops (Wahlenb.) Th.Fr.

Rinodina laongiana Hav., nom. nud.

On siliceous seashore rocks.

S Bh Vg Srm Upl-Ång

N Ho-Fi

F A-U St EP OP PeP

Mayrhofer & Moberg 2002a

Amandinea pelidna (Ach.) Fryday & L.Arcadia

Rinodina biatorina var. *buellioides* C.A.Berg

Amandinea lecideina (H.Mayrhofer & Poelt) Scheid. & H.Mayrhofer

Rinodina lecideina H.Mayrhofer & Poelt

On siliceous rocks.

S Sk Öl Gtl Upl

N Ak Fi

F Ks EnL

Mayrhofer & Poelt 1979, Scheidegger 1988, Scheidegger 1993, Mayrhofer & Moberg 2002a, Fryday & Arcadia 2012

Amandinea punctata (Hoffm.) Coppins & Scheid.

Buellia myriocarpa (DC.) De Not

Buellia punctata (Hoffm.) A.Massal.

Buellia punctiformis (Hoffm.) A.Massal.

Buellia stigmatea Körb.

Mainly on the bark of deciduous trees or on siliceous rock, sometimes on bryophytes or lignum.

S Sk-TL

N Øf-Fi

F A-InL

Mayrhofer & Moberg 2002a

Ameliella andreaicola Fryday & Coppins

On mosses over rock in late snow areas.

S Jmt
N NT
F -

Fryday & Coppins 2008, Svensson et al. 2009

Ameliella grisea Fryday & Coppins

On mosses over rock in late snow areas.

S PL
N Tr (Storfjord 2003 B. Coppins)
F -

Ekman et al. 2019a, Westberg et al. 2019

Amundsenia approximata (Lyngé) Søchting et al.

Caloplaca approximata (Lyngé) H.Magn.

On rocks (crystalline schist, etc.).

S Hjrj-TL
N He Op Ro Ho NT No Tr Fi
F EnL

Lyngé 1928, Magnusson 1946, Hansen et al. 1987, Elvebakk & Bjerke 2006, Pykälä 2010c, Søchting et al. 2014

Amygdalaria consentiens (Nyl.) Hertel et al.

Huilia consentiens (Nyl.) Hertel in Hawksworth et al.

Lecidea consentiens Nyl.

On crystalline schist, etc.

S Dlr Jmt-TL
N Ro-SF NT-Fi
F -

Magnusson 1924a, Poelt & Vězda 1981, Inoue 1984

Amygdalaria elegantior (H.Magn.) Hertel & Brodo

Lecidea elegans (Th.Fr.) Vain, non (Hepp) Stizenb

Huilia elegantior (H.Magn.) Hertel

Lecidea elegantior H.Magn.

Lecidea panaeola var. *elegans* Th.Fr.

On siliceous rocks. slates, etc.

S Nrk-Vrm Dlr Hls Hjrj-TL
N He Op AA Ho ST No-Fi
F PK Ks KiL EnL InL

Magnusson 1952b, Hertel 1977a, Inoue 1983a, Brodo & Hertel 1987, Hertel 1991

Amygdalaria panaeola (Ach.) Hertel & Brodo

Huilia panaeola (Ach.) Hertel

Lecidea panaeola var. *vulgaris* Th.Fr.

Lecidea panaeola Ach.

On siliceous rocks often in humid places.

S Sk-TL

N Ak-Bu AA-SF ST-Fi

F A-U St EH EP-InL

Hertel 1977a, Brodo & Hertel 1987

Amygdalaria pelobotryon (Wahlenb.) Norman

Aspicilia pelobotrya (Wahlenb.) Th.Fr.

Lecanora pelobotrya (Wahlenb.) Sommerf.

Lecidea pelobotrya (Wahlenb.) Leight.

On crystalline schists, etc.

S Vrm Hvj-TL

N Ak Op Te Ro-Fi

F -

Hertel 1980, Brodo & Hertel 1987

Anaptychia ciliaris (L.) Körb.

Anaptychia ciliaris f. *melanosticta* (Ach.) Harm.

Anaptychia ciliaris subsp. *mamillata* (Taylor) D.Hawksw. & P.James

Anaptychia ciliaris var. *melanosticta* (Ach.) Boistel

Physcia ciliaris var. *scopulorum* E.Nyl.

Physcia ciliaris f. *melanosticta* (Ach.) Th.Fr.

Anaptychia melanosticta (Ach.) Trass

Mainly on bark of nutrient-rich deciduous, sometimes on on seashore rocks.

S Sk-Jmt Nb

N Øf-Vf AA Ro-Fi

F A-Ks

Moberg 2002a

Anaptychia runcinata (With.) J.R.Laundon

Anaptychia aquila (Ach.) A.Massal.

Physcia aquila (Ach.) Nyl.

Anaptychia fusca (Huds.) Vain.

On seashore rocks, rarely on trees or on rocks by large lakes.

S Bh-Sk-Upl

N Øf Ak Bu-Fi

F A-U KP

Moberg 2002a

Andreiomyces obtusaticus (Tønsberg) Hodkinson & Lendemer

Lepraria obtusatica Tønsberg

On dry bark of *Corylus*, *Sorbus* and *Picea*, rarely on rain-sheltered rock surfaces.

S -

N Op Ho SF ST NT

F -

Tønsberg 1992b

Anema decipiens (A.Massal.) Forssell

Omphalaria decipiens A.Massal.

On calcareous rocks and calcareous schistose rocks.

S -

N Ak He Bu ST? No

F -

Degelius 1955b, Jørgensen 2007e, Ahti et al. 2012

Anema nummularium (Dufour ex Durieu & Mont.) Nyl. ex Forssell

Anema decipiens sensu Th.Fr.

Anema notarisi (A.Massal.) Forssell

Omphalaria notarisi A.Massal.

On calcareous, xerothermic rocks.

S Öl

N Ak Op Bu Te

F -

Henssen & Jørgensen 1990, Moreno & Egea 1992b, Jørgensen 2007e

Anema tumidulum Henssen ex P.M.Jørg. et al.

Anema cernohorskyi sensu Henssen & Jørgensen

On calcareous, xerothermic rocks.

S Öl

N Ak He Bu Te NT

F -

Henssen & Jørgensen 1990, Jørgensen 2007e, Jørgensen et al. 2013b, Prieto et al. 2015

Anisomeridium biforme (Borrer) R.C.Harris

Arthopyrenia biformis (Borrer) A.Massal.

Arthopyrenia conformis (Nyl.) Müll.Arg.

Microthelia micula Flot. ex Korb.

Acrocordia polycarpa (Korb.) Korb.

On bark of deciduous trees, sometimes on conifers.

S Sk-Gst

N Ak VA-Ho MR ST Tr

F V

Almborn 1948, Swinscow 1970, Harris 1975, Tønsberg & Øvstedal 1982

Anisomeridium carinthiacum (J.Steiner) R.C.Harris

Arthopyrenia carinthiaca J.Steiner

Ditremis carinthiaca (J.Steiner) R.C.Harris

Paraphysothele carinthiaca (J.Steiner) Keissl.

Thelidium subconsequens Nyl.) Hulting, nom. nud.

Verrucaria subconsequens Nyl., nom. nud.

Saxicolous, "saepe inundata".

S Srm ("Ög") Upl

N -

F V

Magnusson 1948b, Swinscow 1967a, Harris 1975, Pykälä 2008

Anisomeridium polypori (Ellis & Everh.) M.E.Barr

Sarcinulella banksiae B.Sutton & Alcorn, anamorph

Anisomeridium juistense (Erichsen) R.C.Harris

Thelidium juistense Erichsen

Zignoella nyssaegena Ellis & Everh.

Anisomeridium nyssigenum (Ellis & Everh.) R.C.Harris, "nyssaegenum"

Arthopyrenia willeyana R.C.Harris

On soft bark of deciduous trees and shrubs.

S Sk-Dlr Hls Jmt ÅsL LyL PL TL

N Ho ST NT

F A-U

Harris 1973, Harris 1985, Arvidsson et al. 1988, Nordin 1990b, Holien & Hilmo 1991

Anisomeridium ranunculosporum (Coppins & P.James) Coppins

Arthopyrenia ranunculospora Coppins & P.James

On deciduous trees, *Corylus*, and *Ilex*.

S -

N Ho

F -

Coppins 1988a, Blom et al. 2015

Anisomeridium viridescens (Coppins) R.C.Harris

On *Corylus*.

S -

N Ho

F -

Nordén & Aptroot 2018

Anzina carneonivea (Anzi) Scheid.

Pertusaria carneonivea (Anzi) Vain.

Varicellaria carneonivea (Anzi) Erichsen

Pertusaria infralaponica Vain.

On bryophytes, tree bark and lignum in forests or bogs.

S Vrm Dlr Hls Hrj-TL

N He-Bu NT No Fi

F EH PH PS Kn-SoL

Du Rietz 1923, Erichsen 1936, Erichsen 1940, Scheidegger 1982, Øvstedal 1986

Aphanopsis coenosa (Nyl.) Coppins & P.James

Lecidea terrigena Ach.

On soil.

S -

N -

F V U

Coppins & James 1984

Aquacidia antricola (Hulting) Aptroot

Bacidia antricola Hulting

Bacidia byssoboliza (Nyl.) H.Olivier

Bilimbia byssoboliza (Nyl.) A.L.Sm.

Lecidea byssoboliza Nyl.

Bacidia carneoglauca (Nyl.) A.L.Smith

Lecidea carneoglauca Nyl.

Variolaria torta Taylor

On shaded granitic rocks.

S Bl Sm Srm ("Ög" Kvarsebo)

N Ho

F -

Hulting 1872, Hulting 1925, Arup 2006c, Svensson et al. 2017b

Aquacidia trachona (Ach.) Aptroot

Biatorina seposita Th.Fr.

Bacidia trachona (Ach.) Lettau

Bilimbia trachona (Ach.) Arnold

On basic rock and tree bark, often in sheltered sites like, e.g., root holes.

S Sk Bl Hl-Ög Srm Upl

N Ro Ho NT Tr

F EH PeP Ks EnL

Llop & Ekman 2007, Ekman 2010a

Aquacidia viridifarinoso (Coppins & P.James) Aptroot

Bacidia viridifarinoso Coppins & P.James

On shaded bark of deciduous trees and on siliceous rock overhangs.

S Sk ÖI Sm Hl Bh Vg Ög Srm Hls Jmt

N Ro Ho

F -

To an undescribed genus.

Coppins et al. 1992, Coppins 1992, Johansson 1992, Nordin 2004c, Berglund & Andersson 2008

Arctocetraria andrejevii (Oxner) Kärnefelt & A.Thell

Cetraria andrejevii Oxner

Nephromopsis andrejevii (Oxner) Divakar et al.

On soil.

S -

N Fi (Vadsø 1985 Söchting)

F -

Kärnefelt 1979, Kärnefelt et al. 1993, Tønsberg et al. 1996, Westberg & Thell 2011a

Arctomia delicatula Th.Fr.

Arctomia acutior (Nyl.) Vain.

Pannaria acutior Nyl.

Pannularia acutior Nyl.

Arctomia delicatula var. *acutior* (Nyl.) Henssen

Arctomia delicatula var. *cisalpina* Hulting

On soil, bryophytes, lichens on calcareous ground, sometimes also on decaying bark of deciduous trees.

S Vg Upl Dlr Hrj Ång Jmt ÅsL LuL TL

N Op ST-Fi

F Ks EnL InL

Henssen 1969, Jørgensen 2007a

Arctomia interfixa (Nyl.) Vain.

Arctomia delicatula subsp. *andreaearum* Th.Fr.

Terricolous on bryophytes and lichens.

S TL

N ST Fi

F EnL

Lynge 1928, Henssen 1969, Jørgensen 2007a

Arctoparmelia centrifuga (L.) Hale

Arctoparmelia aleuritica (Nyl.) Hale

Parmelia aleuritica Nyl.

Parmelia centrifuga (L.) Ach.

Parmelia centrifuga f. *aleuritica* (Nyl.) H.Olivier

Parmelia centrifuga var. *monticola* Räsänen

Xanthoparmelia centrifuga (L.) Hale

On siliceous rock, sometimes lignicolous or corticolous.

S (Sk) Bl-TL

N Øf-Fi

F A-InL

Hale 1986b, Moberg & Thell 2011a

Arctoparmelia incurva (Pers.) Hale

Parmelia incurva (Pers.) Fr.

Parmelia incurva f. *lignicola* Koskinen

Xanthoparmelia incurva (Pers.) Hale

On siliceous rock, sometimes on lignum.

S Sk-TL

N Ø-Fi

F A-InL

Hale 1986b, Moberg & Thell 2011a

(*) Arrhenia peltigerina (Peck) Redhead et al.

Omphalina cupulatoides P.D.Orton

Fayodia leucophylla (Gill.) M.Lange & Siverts

Omphalina peltigerina (Peck) Collin in Collin & Lauron

On Peltigera didactyla and Peltigera sp. (thallus).

S ÖI Upl Dlr

N -

F V ES KP?

Collin & Lauron 1994, Redhead et al. 2002, Vila 2002

Arthonia aggregata Vain.

On granitic rock.

S -

N -

F PK

Arthonia aggregata Alstrup et al., in Alstrup (1993, p. 96) is an illegitimate later homonym.

Vainio 1883

*** Arthonia almquistii Vain.**

Arthonia neglectula, sensu Almq., non Nyl.

On *Amygdalaria panacola*, *Koerberiella wimmeriana*, *Porpidia crustulata* (thallus).

S Mpd Jmt TL

N Ho

F -

Almquist 1880, Triebel 1989, Rambold et al. 1990

***Arthonia amylospora** Almq.

On Porpidia rugosa (thallus).

S Mpd (Ranklöven 1873 Almquist)

N AA

F -

Almquist 1880, Triebel 1989, Klepsland 2020

Arthonia apatetica (A.Massal.) Th.Fr.

Allarthonia exilis auct.

Arthonia exilis auct.

Allarthonia rugulosa (Kremp. ex Körb.) Almq.

Arthonia rugulosa Kremp. ex Körb., uncertain synonym

Arthonia salicicola (Nyl.) Hue

Arthonia vagans subsp. *rugulosa*, uncertain synonym

On smooth bark of Salix, Sorbus etc. (sometimes conifers).

S Vg Nrk Srm Upl Dlr Hls Mpd Hrj? Jmt

N Ak Bu MR? ST? No

F V U EH PH Kn Ks InL

Almquist 1880, Coppins 1989a

***Arthonia apotheciorum (A.Massal.) Almq.**

Arthonia clemens auct., non (Tul.) Th.Fr.

On Lecanora albescens (apothecia).

S Öl Vg

N -

F -

Almquist 1880, Triebel 1989

Arthonia arthonioides (Ach.) A.L.Sm.

Arthonia aspersa Leight.

On bark of deciduous trees and on siliceous, vertical rock surfaces in shaded sites.

S Ög Srm Vsm Upl

N Te AA Ro-NT

F -

Botnen 1984, Jørgensen & Tønsberg 1988, Sundin 1998, Blom et al. 2015

Arthonia atra (Pers.) A.Schneid.

Opegrapha atra Pers.

On smooth bark of deciduous trees.

S Sk-Hls

N Öf Ak Bu-Te VA-MR

F A-U

Almborn 1948, Torrente & Egea 1989, Ertz et al. 2009

***Arthonia biatoricola Ihlen & Owe-Larss.**

On *Biatora efflorescens* (thallus, soralia).

S Vrm Vsm Upl Jmt

N He ST

F -

Ihlen et al. 2004b

Arthonia boreella (Vain.) Zahlbr.

Arthonia punctiformis subsp. *boreella* Vain.

On *Salix* and *Alnus*.

S -

N -

F InL

Vainio 1883

Arthonia bueriana (J.Lahm) Zahlbr.

Arthonia convexella Nyl.

Report from S is incorrect.

***Arthonia caerulescens (Almq.) R.Sant.**

Arthonia apotheciorum subsp. *caerulescens* Almq.

On *Lecanora varia* (apothecia).

S Nrk Upl

N -

F -

Almquist 1880, Santesson et al. 2004

Arthonia calcarea (Turner ex Sm.) Ertz & Diederich

Opegrapha calcarea Turner ex Sm.

Opegrapha chevallieri Leight.

Opegrapha conferta auct.

Opegrapha confluens auct.

Opegrapha hysteriiformis Nyl.

On calcareous and siliceous rock, bricks, etc.

S Sk Öl Gtl Hl Bh Vg Dlr

N Ro-SF ST

F -

Almborn 1942, Almborn 1948, Degelius 1969, Torrente & Egea 1989, Källsten 1993, Ertz et al. 2009

Arthonia cinereopruinosa Schaer.

Pyrenotheca stictica Fr.

Mainly on old *Picea abies* and *Quercus*.

S Sk-Upl Ång

N Te Ho

F EH

Almquist 1880, Coppins & James 1978, Sundin & Tehler 1998, Thor & Arvidsson 1999

* **Arthonia circinata Th.Fr.**

On Umbilicaria vellea, U. hirsuta (thallus).

S Ög
N Op SF ST Tr Fi
F -

Hawksworth 1991, Grube et al. 1995, Alstrup et al. 2008, Frisch et al. 2020a

* **Arthonia clemens (Tul.) Th.Fr.**

Arthonia subvarians Nyl.

On Rhizoplaca chrysoleuca, R. melanophthalma (apothecia).

S TL
N Op ST
F -

Not including *Arthonia apotheciorum*, *A. galactinaria* and *A. lecanorina* (on *Lecanora* spp.).
Almquist 1880, Triebel 1989

* **Arthonia colombiana Etayo**

On basal squamules and podetia of *Cladonia* spp.

S -
N Ho No
F -

Frisch et al. 2020a

* **Arthonia coronata Etayo**

On *Cladonia coniocraea*, *C. cenotea*, *C. digitata*, *C. ochrochlora*, *C. sulphurina* (soredia).

S Ög Vsm Upl Dlr
N -
F -

Svensson & Westberg 2010

Arthonia didyma Körb.

On bark of deciduous trees and conifers.

S Sk-Ång
N Ak-Op Vf Ro Ho MR-No
F V U St-ES PH PK Kn PeP

Almquist 1880

* **Arthonia digitatae Hafellner**

On *Cladonia pleurota* (thallus).

S PL
N AA Ho SF ST Tr
F EnL

Ihlen & Wedin 2005, Frisch et al. 2020a, Suija & Jüriado 2020

Arthonia dispersa (Schrad.) Nyl.

Arthonia epipasta (Ach.) Körb.

On smooth bark of deciduous trees, such as Acer, Alnus, Fagus, Fraxinus, Corylus, Betula, etc.

S Sk-TL
N Ak Vf Ho-MR No
F V EH KP

Almquist 1880, Coppins 1989a, Sundin & Tehler 1998, Sundin 1999

Arthonia dispuncta Nyl.

On smooth bark of Alnus incana, Sorbus aucuparia, Corylus, etc.

S Dlr Mpd Ång
N Tr
F V U St EH EP-PK Kn KiL

Hermansson 2008a

* **Arthonia epimela (Norman ex Almq.) I.M.Lamb**

Arthonia vagans subsp. *epimela* Norman ex Almq.

On Amandinea punctata (thallus).

S Upl
N Fi
F -

Almquist 1880, Clauzade et al. 1989

* **Arthonia epiphyscia Nyl.**

Conida destruens sensu Magnusson, "Conidia" destruens in Magnusson (1952a)

On Physcia caesia, P. dubia, P. leptalea, P. stellaris (thallus).

S Sm Ög Nrk Vsm Upl Hrij Jmt ÅsL TL
N Op Ho SF ST Tr Fi
F A-U EH EP PS PK PeP InL

Santesson 1960, Alstrup et al. 2008, Puolasmaa et al. 2008, Frisch et al. 2020a

* **Arthonia excentrica Th.Fr.**

Arthonia distinctior Norman, nom. nud.

Allarthonia excentrica (Th.Fr.) Zahlbr.

On Lepraria spp.?, Leprocaulon subalbicans (thallus).

S Hrij ÅsL
N Op Ho ST-Fi
F -

Fries 1867, Norman 1868, Almquist 1880

Arthonia excipienda (Nyl.) Leight.

Arthonia dispersa var. *excipienda* (Nyl.) H.Olivier

On smooth bark of Corylus, Alnus, Berberis, and Daphne.

S Vg-Upl Hrij Jmt
N Ak
F A-U

Almquist 1880, Coppins 1989a

Arthonia exilis (Flörke) Anzi

Probably not found in F, N or S.

***Arthonia faginea* Müll.Arg.**

Allarthonia faginea (Müll.Arg.) Redinger

On *Populus tremula*.

S LuL (Gällivare, Satisjaure 1964 Gilenstam)

N -

F -

Determination not quite sure.

Gilenstam 1969

* ***Arthonia farinacea* (H.Olivier) R.Sant.**

Mycobilimbia farinacea (H.Olivier) Vouaux

On *Ramalina farinacea* (soralia).

S Öl Vsm Upl

N -

F V EH

Santesson 1960, Santesson 1984b, Santesson 1986

***Arthonia fusca* (A.Massal.) Hepp**

Allarthonia lapidicola auct., non (Taylor) Zahlbr.

Arthonia lapidicola auct., non (Taylor) Branth & Rostr.

Arthonia vagans var. *koerberi* (J.Lahm ex Arnold) Almq.

On calcareous rocks (also on granite).

S Öl Gtl HI Vg-TL

N Ak Bu Ho No Tr

F V

Almquist 1880, Fryday 2004

* ***Arthonia fuscopurpurea* (Tul.) R.Sant.**

Celidium fuscopurpureum Tul.

On *Peltigera canina*, *P. rufescens*, *P. didactyla*, *P. hymenina*, *P. polydactylon*, *P. scabrosa* (thallus).

S Sk-Upl TL

N NT No

F V KP EnL

Santesson 1960, Eriksson 1981, Degelius 1982, Santesson 1984b, Puolasmaa et al. 2012, Suija & Jüriado 2020

* ***Arthonia galactinaria* Leight.**

On *Lecanora dispersa* (ap).

S Öl Vsm Hrg

N Fi

F -

Hafellner & Türk 1995, Grube & Matzer 1997

***Arthonia gelidae R.Sant.**

On *Placopsis gelida*, *P. lambii* (thallus).

S Jmt
N No
F EnL?

Almquist 1880, Santesson 1986

Arthonia granitophila Th.Fr.

Melaspilea granitophila (Th.Fr.) Coppins

Melaspilea subarenaria Nowak & Kiszka

On siliceous rock under overhangs.

S Sk Bh Ög Srm Vrm Vsm Upl Mpd Jmt LuL
N Ho SF NT
F U PS Ks

Redinger 1937, Coppins 1989a

***Arthonia graphidicola Coppins**

On thallus of *Graphis scripta*.

S -
N Ho MR
F -

Blom et al. 2015, Frisch et al. 2020a

Arthonia helvola (Nyl.) Nyl.

On *Alnus*, *Betula*, *Picea*, etc.

S Upl Mpd Vb
N Op
F V U EH

Almquist 1880, Sundin & Tehler 1998, Thor & Arvidsson 1999, Klepsland 2020

Arthonia ilicina Taylor

Arthothelium ilicinum (Taylor) P.James

On smooth bark of deciduous trees and shrubs (often *Corylus* or *Sorbus*) or on *Ilex*.

S -
N Ho SF
F -

Almquist 1880, Du Rietz 1919, James 1965, Jørgensen & Øvstedal 1975, Coppins & James 1979c, Grube & Giralt 1996, Sundin 1999, Blom et al. 2015

Arthonia incarnata Th.Fr. ex Almq.

On old wood and on bark of *Picea* or corticolous on *Salix caprea*.

S Dlr Hls Mpd Ång Hrj Jmt Vb Nb
N -
F EH PH? PK-OP Ks

Almquist 1880, Sundin & Tehler 1998, Thor & Arvidsson 1999, Nordin & Hermansson 1999, Hermansson 2008a

* **Arthonia intexta** Almq.

Arthonia intexta var. *pauperrima* Almq.

Diplophragmia petsamoënsis var. *savonica* Räsänen

Lecidea syntrophica Vain., probably *Arthonia intexta* on *Lecidella* sp. fide Triebel

On *Lecidella stigmatea*, *L. patavina* (apothecia).

S Ög Nrk Vrm Hvj Jmt TL

N Ak Op ST Tr Fi

F V PK Kn EnL

Almquist 1880, Hertel 1969c, Triebel 1989

* **Arthonia japewiae** Grube & Holien

On *Japewia subaurifera*, *J. tornensis* (thallus).

S -

N ST NT No

F -

Grube & Matzer 1997, Frisch et al. 2020a

* **Arthonia lecanorina** (Almq.) R.Sant.

Arthonia vagans var. *lecanorina* Almq.

On *Lecanora albella* (apothecia).

S Upl Dlr Hls Ång Jmt

N -

F -

Almquist 1880, Santesson et al. 2004

* **Arthonia lepidiota** (H.Olivier) R.Sant.

Arthonia nephromaria var. *lepidiota* H.Olivier

On *Fuscopannaria praetermissa* (thallus, apothecia).

S -

N Fi (Næsseby, Th. Fries)

F -

Almquist 1880, Santesson et al. 2004

Arthonia ligniaria Hellb.

Lignicolous and corticolous.

S Sk Sm Srm Dlr Hvj

N -

F -

Coppins 1989a, Arup & Ekman 1991b

Arthonia ligniariella Coppins

Lignicolous, on rotten wood; also on Sphagnum.

S Sm Srm Dlr Hvj

N Op Bu SF NT No

F -

Coppins 1989a, Gustavsson 1995, Thor 2008, Frisch et al. 2020a

Arthonia lirellans Almq.

Arthothelium lirellans (Almq.) Coppins

Mostly on Sorbus and Corylans, occasionally on other deciduous trees or Ilex.

S -

N Ho

F -

Almqvist 1880, Coppins & James 1979c, Ihlen & Coppins 1999, Sundin 1999, Blom et al. 2015

Arthonia macounii G.Merr.

On old *Corylus avellana* in coastal pine forest.

S -

N Ho (Stord, 2014)

F -

Blom et al. 2015

Arthonia mediella Nyl.

Arthonia mediella var. *sapinea* Nyl.

On bark and lignum of deciduous trees and conifers.

S BI-TL

N Ak-Op Ho MR No-Fi

F V U St-KiL InL

Almqvist 1880, Sundin & Tehler 1998

Arthonia minutissima (Ach.) Nyl.

Verrucaria byssacea var. *minutissima* Ach.

Limboria stictica Ach.

Verrucaria stictica var. *minutissima* Ach.

Unknown application.

* **Arthonia molendoi (Heufl. ex Frauenf.) R.Sant.**

Tichothecium molendoi Heufl. ex Frauenf.

On *Xanthoria elegans*, *X. parietina*, *X. polycarpa*, *X. soreliata*, *Caloplaca biatorina*, *C. decipiens*, *C. saxicola* (thallus, apothecia).

S Sk-TL

N Op Fi

F A EnL

Santesson 1986, Suija & Jürriado 2020

* **Arthonia neglectula Nyl.**

On sterile soreliate crust (*Lepraria neglecta?*).

S Ög Vsm Upl Dlr ÅsL

N -

F V EH Kn

Triebel 1989, Grube et al. 1995, Westberg & Svensson 2012

***Arthonia obscurior Triebel**

On Pilophorus dovrensis (apothecia).

S TL

N Fi

F -

Present in some specimens of Malme, Lich. succ. exs. n. 891.

Triebel 1989

Arthonia orbillifera (Almq.) Sundin

Arthothelium orbilliferum (Almq.) Hasse

Arthonia subatroidea subsp. *orbillifera* Almq.

Often on Sorbus, sometimes on other deciduous trees and shrubs.

S -

N Ho

F -

Almquist 1880, Coppins & James 1979c, Ihlen & Coppins 1999, Sundin 1999, Blom et al. 2015

***Arthonia pannariae Zhurb. & Grube**

On Protopannaria pezizoides and Psoroma hypnorum.

S -

N Tr

F -

Zhurbenko & Grube 2010

Arthonia patellulata Nyl.

Arthonia betuleti Nyl.

Allarthonia patellulata (Nyl.) Zahlbr.

On smooth bark of Populus tremula.

S Sk-Jmt Vb? ÅsL-LuL TL?

N Ak Op AA ST No-Fi

F V U St-PK Kn PeP Ks EnL InL

Almquist 1880, Coppins 1989a, Sundin & Tehler 1998

***Arthonia peltigerea Th.Fr.**

On Peltigera rufescens, P. leucophlebia, Solorina saccata, S. bispora, S. octospora (thallus).

S Hrj Jmt TL

N He Ho NT-Fi

F KP KiL EnL

Almquist 1880, von Keissler 1923, Santesson 1994a, Santesson 1994b, Puolasmaa et al. 2012, Frisch et al. 2020a, Suija & Jüriado 2020

***Arthonia peltigerina (Almq.) H.Olivier**

Allarthonia peltigerina (Almq.) H.Magn.

Arthonia vagans var. *peltigerina* Almq.

On Peltigera leucophlebia, P. malacea, P. rufescens, P. lepidophora, Solorina crocea (thallus).

S Hrj Jmt TL

N ST Tr Fi

F -

Almquist 1880, Santesson 1986

* *Arthonia pelveti* (Hepp) Almq.

Not in F, N or S.

***Arthonia phaeobaea* (Norman) Norman**

Allarthonia phaeobaea (Norman) Zahlbr.

On seashore rocks.

S Bh-Sk-Upl
N Ro-ST No-Fi
F V

Almqvist 1880

* ***Arthonia phaeophysciae* Grube & Matzer**

On *Phaeophyscia orbicularis*, *P. constipata*, *Phaeophyscia* sp. (thallus).

S Sm Vsm Upl TL
N Op
F A V U EH InL

Grube & Matzer 1997, Puolasmaa et al. 2008

* ***Arthonia punctella* Nyl.**

On an undetermined crustose lichen.

S TL (W of Torneträsk 1982 Alstrup)
N Op
F -

Hawksworth 1980a, Alstrup 1991, Frisch et al. 2020a

***Arthonia radiata* (Pers.) Ach.**

On smooth bark of deciduous trees, also on wood.

S Sk-TL
N Øf-Fi
F A-KiL EnL InL

Almqvist 1880, Sundin & Tehler 1998, Sundin 1999

***Arthonia ruana* A.Massal.**

Arthothelium rosaceum (Anzi) Zahlbr.

Arthothelium ruanideum (Nyl.) Arnold

Arthothelium ruanum (A.Massal.) Körb.

On smooth bark of deciduous trees, such as *Fraxinus*, *Fagus*, *Alnus*, *Corylus*, etc.

S Sk-Upl Dlr
N Øf Ak Bu-Te VA Ho ST
F V U EH PH PS

Almborn 1948, Coppins & James 1979c, Ingelög et al. 1987, Arup et al. 1997, Sundin & Tehler 1998

***Arthonia stellaris* Kremp.**

Often on *Corylus*, sometimes *Sorbus*, occasionally other deciduous trees and shrubs.

S -
N Ro-MR
F -

Skjolddal 1982, Coppins 1989a, Blom et al. 2015

* **Arthonia stereocaulina (Ohlert) R.Sant.**

Arthonia nephromaria var. *stereocaulina* Ohlert.

On *Stereocaulon condensatum*, *S. depressum*, *S. glareosum*, *S. vesuvianum* (thallus).

S LyL TL

N Op ST No Tr

F -

Santesson 1993b, Frisch et al. 2020a

* **Arthonia subfuscicola (Linds.) Triebel**

Arthonia glaucomaria var. *pallidae* Rehm ex Almq.

Celidium varians subsp. *elfvingii* Räsänen

On *Lecanora carpinea*, *L. albella* (apothecia, thallus).

S Gtl Vg Ög Nrk Upl Hls Mpd

N No

F V

Almquist 1880, Hawksworth 1985b, Triebel et al. 1991

Arthonia tenellula Nyl.

Arthonia horaria Norman

On bark of *Salix* and *Sorbus*.

S -

N Ak Bu Vf Ho No

F U EH Kn Ks

Almquist 1880, Norman 1884

* **Arthonia toensbergii Holien & Frisch**

On *Mycoblastus affinis* and *M. alpinus*.

S -

N ST NT No Tr

F -

Frisch & Holien 2018, Frisch et al. 2020a

Arthonia vagans var. *macularis* Almq.

Allarthonia macularis (Almq.) Zahlbr.

Unknown application, but the type (from Dls) is available in S and should be investigated

Almquist 1880

* **Arthonia varians (Davies) Nyl.**

Arthonia glaucomaria Nyl.

On *Lecanora rupicola* (apothecia, thallus), *L. helicopis* (thallus).

S Sk-Upl Jmt TL

N A Op ST NT

F A-U EH

Hawksworth 1983a, Santesson 1986, Santesson 1998, Hawksworth 2003

Arthonia vinosa Leight.

Arthonia lurida auct., non Ach. nec brit.

On rough bark of deciduous trees, often *Quercus*, also on lignum.

S Sk-Jmt Nb ÅsL LuL TL

N Øf-Ho MR-Tr

F A-EH PH-PK Kn-Ks

Almquist 1880

***Arthophacopsis parmeliarum Hafellner**

On *Parmelia saxatilis*, *P. sulcata* (thallus).

S Vrm Hls Jmt LuL

N SF ST-Tr

F -

Hafellner 1998, Frisch et al. 2020a

Arthopyrenia analepta (Ach.) A.Massal.

Didymella annulata Laurila

Arthopyrenia callithrix Norman

Didymella daphnis Vain.

Arthopyrenia fallax (Nyl.) Arnold

Didymella fallax (Nyl.) Vain.

Leiophloea fallax (Nyl.) H.Riedl

Arthopyrenia lapponina Anzi

Arthopyrenia padicola (Vain.) Zahlbr.

Didymella padicola Vain.

On smooth bark of deciduous trees and shrubs.

S Sk-TL

N Ak Op-AA Ro-Fi

F A-U St-ES PH-PK Kn PeP-KiL EnL InL

Vainio 1921, von Keissler 1936, Harris 1975, Foucard 1992

Arthopyrenia atomariella (Nyl.) Hulting

On twigs of *Salix*, *Syringa*, *Fraxinus*, etc.

S Ög Gtl Dls

N No

F V

Hulting 1900, Degelius 1982, Foucard 1992

Arthopyrenia callunae (De Not.) Aptroot

On *Calluna vulgaris*.

S -

N Ho

F -

Nordén & Aptroot 2018

Arthopyrenia carneobrunneola Coppins

On trunks of *Corylus avellana*, *Fraxinus excelsior* and *Tilia cordata*.

S -
N Ho
F -

Blom et al. 2015, Frisch et al. 2020a

Arthopyrenia cerasi (Schrad.) A.Massal.

Metasphaeria cerasi (Schrad.) Vain.

On smooth bark of *Prunus*, *Corylus*, etc.

S Sk-Upl
N No
F A EH InL(?)

Vainio 1921, Harris 1975, Foucard 1992

Arthopyrenia cinereopruinosa (Schaer.) A.Massal.

Didymella abieticola Vain.

Arthopyrenia pinicola (Hepp) A.Massal.

Didymella pinicola (Hepp) Vain.

Didymella ramulicola Vain.

On bark of deciduous trees, often *Fraxinus*, or on *Ilex*.

S Gtl Ög Nrk Gst
N Vf Ro-SF ST NT
F U

Vainio 1921, von Keissler 1936, Degelius 1944c, Degelius 1944a, Almborn 1948, Harris 1975, Foucard 1992

Arthopyrenia cupreoferruginea Hav.

Nomen nudum.

Arthopyrenia didymelloides Zahlbr.

Didymella subfallax (Vain.) Vain, non *Arthopyrenia subfallax* (Nyl.) Müll.Arg

On *Alnus incana*, *Salix*, *Betula*, etc.

S TL
N Ho
F U EH PeP KiL EnL InL

Vainio 1921, von Keissler 1936, Magnusson 1952a, Foucard 1992

Arthopyrenia elachistotera (Nyl.) H.Riedl

Cyrtidium elachistoterum (Nyl.) Vain.

Mycoporum elachistoterum Nyl.

Didymocyrtidium nudum Vain.

On *Alnus*.

S -
N Fi
F ES OP PeP Ks KiL

Riedl 1963

Arthopyrenia grisea (Schleich. ex Schaer.) Körb.

Mycarthopyrenia juglandis (A.Massal.) Keissl.

Arthopyrenia pluriseptata auct.

On deciduous trees.

S Gtl Srm Upl Dlr

N Ak ST Tr Fi

F -

Degelius 1944a, Foucard 1992, Hermansson 2008a

Arthopyrenia intersistens (Nyl.) Zahlbr.

Metasphaeria intersistens (Nyl.) Vain.

Verrucaria intersistens Nyl.

On bark of Betula, Alnus, Corylus and Sorbus.

S -

N -

F V EH PH

Stenroos et al. 2016

Arthopyrenia nitescens (Salwey) Mudd

On bark of Sorbus aucuparia and Corylus avellana.

S -

N Ho

F -

Blom et al. 2015, Frisch et al. 2020a

Arthopyrenia pithyophila Th.Fr. & Blomb.

Leptorhaphis pithyophila (Th.Fr. & Blomb.) H.Magn.

On Fraxinus, Rhamnus, Picea, Hedera.

S ÖI Nrk Upl Gstr Ång

N Tr

F -

Fries 1868b, von Keissler 1936, Aguirre-Hudson 1991, Aguirre-Hudson 1991, Foucard 1992

Arthopyrenia pygmaea Degel.

On a granitic boulder in lake VÄrttern.

S Ög (Omberg 1944 Degelius)

N -

F -

Degelius 1944c

Arthopyrenia salicis A.Massal.

On smooth bark of deciduous trees and shrubs, rarely on Picea.

S Sk-TL

N Ho

F A V Kn

Coppins 1988a, Foucard 1992, Syrjänen et al. 2010

Arthopyrenia spilobola (Nyl.) Arn.

Saxicolous.

S Mpd (Sundsvall Efr. Eriksson)

N -

F -

Determination uncertain. Parasymbiotic according to James (1965, p. 102).

Magnusson 1926a

Arthopyrenia stenomicra Norman

Leptorhaphis stenomicra (Norman) H.Magn.

Unknown application. The type is an Arthonia sp. + conidial state; no ascomata of Arthopyrenia or Leptorhaphis present.

Aguirre-Hudson 1991

Arthopyrenia stenospora Körb.

Leptorhaphis stenospora (Körb.) H.Magn.

On deciduous trees.

S Sm-Ång Jmt?

N Vf ST No Tr

F -

von Keissler 1936, Degelius 1944a, Aguirre-Hudson 1991

Arthopyrenia subcerasi (Vain.) Zahlbr.

Metasphaeria subcerasi (Vain.) Vain.

Verrucaria subcerasi Vain.

On Betula.

S Vrm Dlr LuL

N AA NT No

F Kn PeP InL

Coppins 1988a, Foucard 1992, Frisch et al. 2020a

Arthothelium dictyosporum (Coppins & P.James) Coppins

On bark of Fraxinus excelsior.

S -

N Ho

F -

Frisch et al. 2020a

+ Arthothelium fusisporum (Th.Fr.) Zahlbr.

Arthonia fusispora (Th.Fr.) Almq.

On Picea abies.

S Nrk Srm Vsm Upl Ång Hrj

N -

F -

Fries 1864, Almquist 1880, Coppins & James 1979a

Arthothelium macounii (G.Merr.) W.J.Noble

On *Corylus avellana* in coastal pine forest.

S -
N Ho
F -

Blom et al. 2015, Frisch et al. 2020a

Arthothelium norvegicum Coppins & Tønsberg

Mainly on *Sorbus*, sometimes on *Picea*, rarely on *Alnus*.

S ÅsL
N ST NT
F -

Coppins & Tønsberg 1984, Botnen & Tønsberg 1988, Holien 1992b

+ **Arthothelium scandinavicum Th.Fr.**

Mycarothelium scandinavicum (Th.Fr.) Vain.

Arthonia scandinavaica (Th.Fr.) Nyl.

On *Picea abies*.

S Gtl Nrk Vrm Hls Ång Vb
N Ak Op Bu Te ST NT
F A-U St-PK Kn PeP

Fries 1864, Almquist 1880, Coppins & James 1979a, Sundin & Tehler 1998, Frisch et al. 2020a

* **Arthrorhaphis aeruginosa R.Sant. & Tønsberg**

On *Cladonia coniocraea*, *C. digitata*, *C. macrophylla*, *C. pyxidata*, *C. peziziformis*, *Cladonia* sp. (squamules and base of podetia).

S Sk Srm Upl
N Øf-He Bu Te Ro-SF NT
F -

Santesson & Tønsberg 1994, Tønsberg & Øvstedal 1995, Ekman & Arup 2000

Arthrorhaphis alpina (Schaer.) R.Sant.

Bacidia alpina (Schaer.) Vain.

Bacidia citrinella subsp. *alpina* (Schaer.) J.R.Laundon

On soil, first parasymbiotic on *Baeomyces rufus*, later an autonomous lichen.

S Hrtj-TL
N Op Bu Ho ST-Fi
F PK OP-KiL EnL InL

Poelt 1961a, Poelt & Vězda 1977, Obermayer 1994, Ihlen 1998

Arthrorhaphis citrinella (Ach.) Poelt

Bacidia citrinella (Ach.) Branth & Rostr.

Lichen citrinellus Ach.

Arthrorhaphis flavovirescens (Dicks.) Th.Fr.

Bacidia flavovirescens (Dicks.) Anzi

Bacidia flavovirescens var. *detrita* Vain.

On soil and on bryophytes on shaded rocks, first often parasymbiotic on *Baeomyces rufus*, later or from the beginning an autonomous lichen.

S Sk-TL

N Ak-Bu Te AA Ro-Fi

F V-PS Kn OP Ks KiL EnL InL

Poelt 1961a, Poelt & Vězda 1977, Obermayer 1994, Ihlen 1998

Arthrorhaphis grisea Th.Fr.

Bacidia arenicola (Nyl. ex Mudd) H.Olivier

Rhaphiospora arenicola Nyl. ex Mudd

Lahmia fueistingii Körb.

Lecidea fuscireagens Vain., "fuscoreagens"

Arthrorhaphis fuscoreagens (Vain.) Poelt

Bacidia fuscoreagens (Vain.) Vain.

On soil, first parasymbiotic on *Baeomyces carneus* and *Baeomyces rufus*, later an autonomous lichen.

S Sk-Gst Hrj-TL

N Ak Bu Ro Ho ST-No Tr Fi

F U EH PH Ks SoL InL

Fries 1860, Swinscow 1961, Poelt & Vězda 1977, Obermayer 1994

*** Arthrorhaphis muddii Obermayer**

Arthrorhaphis fuscireagens auct.

On *Dibaeis baeomyces*.

S -

N Ho ST NT Tr

F -

Magnusson 1942b, Poelt & Vězda 1977, Ihlen 1998

*** Arthrorhaphis olivaceae R.Sant. & Tønsberg**

On *Melanohalea olivacea* (thallus, apothecia).

S Jmt (Ånnsjön 1957 R. Santesson)

N -

F -

Santesson & Tønsberg 1994

Arthrorhaphis vacillans Th.Fr. & Almq. ex Th.Fr.

Arthrorhaphis anziana (Lyngé) Poelt

Bacidia anziana Lyngé

Bacidia vacillans (Th.Fr.) Rostr.

On soil, first parasymbiotic on *Baeomyces rufus* and *Baeomyces placophyllus*?) later an autonomous lichen.

S Hrj TL

N He ST

F -

Poelt 1961a, Poelt & Vězda 1977, Obermayer 1994, Ihlen 1998, Westberg et al. 2016

Asahinea chrysantha (Tuck.) W.L.Culb. & C.F.Culb.

Cetraria chrysantha Tuck.

On rocks and boulders of calcareous stone in a treeless area.

S -

N Fi (two localities)

F -

Hakulinen & Ulvinen 1966, Tønsberg et al. 1996, Randlane & Thell 2011

Aspicilia alboradiata (H.Magn.) Oxner

Lecanora alboradiata H.Magn.

On slightly calcareous rock.

S TL (Abiskojojk 1936 R. Santesson)

N -

F -

Magnusson 1939a, Magnusson 1952a

Aspicilia aliena (Zahlbr.) Oxner

Lecanora aliena Zahlbr.

On crystalline schist.

S Jmt LuL TL

N -

F -

Magnusson 1939a

Aspicilia aquatica (Fr.) Körb.

Aspicilia amphibola var. *subgriseola* Vain. ex Räsänen

Lecanora amphibola sensu Vain.

Lecanora aquatica (Körb.) Hepp

Aspicilia griseopallida (Vain.) Hue

Lecanora griseopallida Vain.

Aspicilia gyrodes (Nyl.) Hue

Lecanora gyrodes Nyl.

Aspicilia mazarina (Wahlenb.) R.Sant.

Lecanora mazarina (Wahlenb.) Du Rietz, nom. sed non planta

Lecanora rivulorum H.Magn.

On rocks in streams, by lakes, etc.

S Bh-TL

N Ak-Op MR ST Tr Fi

F V U St-KP PeP

Magnusson 1939a

Aspicilia arctica (Lyngé) Oxner

Lecanora arctica Lyngé, nom. inval.

On acidic rocks.

S TL

N Fi

F -

Invalid name; Swedish material cited by Magnusson belongs to *Aspicilia cinerea* and *A. dudinensis* respectively.

Magnusson 1939a, Magnusson 1952a

Aspicilia aspicilioidea (Th.Fr.) R.Sant.

Lecanora aspicilioidea (Th.Fr.) H.Magn., 1952, nom. nud., non *L. aspicilioides* (Müll.Arg.) Stizenb. (orth.

Lecidea aspicilioidea Th.Fr.

Lecidea superlata Vain.

On siliceous rocks.

S Ång Jmt LuL TL

N ST No Fi

F -

Fries 1874, Magnusson 1952a

Aspicilia berntii (Lyngé) A.Nordin et al.

Lecanora mastoidea Lyngé

On siliceous seashore rocks.

S -

N No

F -

Nordin et al. 2008

Aspicilia caesiopruinosa (H.Magn.) J.W.Thomson

Lecanora caesiopruinosa H.Magn.

On calcareous rock.

S TL

N Fi

F -

Magnusson 1952a

Aspicilia cinerea (L.) Körb.

Aspicilia cinerea var. *atroalba* Räsänen

Aspicilia cinerea var. *badia* Räsänen

Aspicilia cinerea var. *macrocarpa* Räsänen

Lecanora cinerea (L.) Sommerf.

Aspicilia delimitata (H.Magn.), comb. ined.

Lecanora delimitata H.Magn.

Aspicilia depressa (Ach.) Anzi, uncertain synonym

Sagedia depressa Ach., uncertain synonym

Aspicilia excipularis (H.Magn.) Cogt in Creveld, comb. inval.

Lecanora excipularis H.Magn., nom. nov. for *Sagedia depressa*, uncertain synonym

Aspicilia gibbosa var. *virescens* Räsänen

Lecanora illimata (Wahlenb.) Ach.

Lecanora protrudens Malme

Aspicilia pruinosa (Vain.) Motyka

Aspicilia tephra Hue, uncertain synonym

On siliceous rock.

S Sk-TL

N Øf-AA Ro-Fi

F A-InL

Fries 1871, Magnusson 1939a

Aspicilia circularis (H.Magn.) Oxner

Lecanora circularis H.Magn.

Not in F, N or S. Swedish report refers to *Aspicilia rivulicola*.

Magnusson 1939a, Magnusson 1952a

Aspicilia coronata (A.Massal.) Anzi

On calcareous rocks.

S ÖI Gtl

N -

F -

To *Circinaria* but not yet combined.

Fröberg 1989

Aspicilia dendroplaca (H.Magn.) Oxner

Lecanora dendroplaca H.Magn.

Lecanora plicigera, sensu H.Magn. 1936, non Zahlbr. 1928

On calcareous schist.

S Jmt (Storlien 1914 Magnusson)

N -

F -

Magnusson 1939a

Aspicilia dudinensis (H.Magn.) Oxner

Lecanora dudinensis H.Magn.

On crystalline schist.

S TL (Abiskojäkk 1919 Magnusson)

N -

F -

Magnusson 1952a

Aspicilia elevata (Lyngé) J.W.Thomson

Lecanora elevata Lyngé

Not in F, N or S. Report from Sweden refer to *Aspicilia supertegens*.

Magnusson 1939a, Magnusson 1952a

Aspicilia epiglypta (Norrl. ex Nyl.) Hue

Lecanora epiglypta Norrl. ex Nyl.

Aspicilia scabrida (Degel.) R.Sant.

Lecanora scabrida Degel.

On sun-exposed, siliceous rock.

S Sk-Upl

N VA Ro No

F V U EH KP

Magnusson 1939a, Degelius 1948a, Jørgensen & Nordin 2009, Magnusson 1930b

Aspicilia extenuata (H.Magn.)

Lecanora extenuata H.Magn.

On non-calcareous rock on lake shores, etc.

S Jmt TL

N MR?

F -

Magnusson 1939a

Aspicilia fluviatilis A.Nordin & Owe-Larss.

On siliceous rocks close to running water.

S Jmt

N -

F -

Only material from type locality known so far; other reports refer to *Aspicilia subradians*.

Nordin et al. 2011

Aspicilia granulosa A.Nordin

On siliceous rocks close to running water or in subalpine scree slopes.

S Jmt LuL TL

N -

F -

Nordin et al. 2011

Aspicilia grisea Arnold

Lecanora grisea (Arnold) Lettau, non Ach.

Lecanora griseolans Zahlbr.

On siliceous rocks in humid places.

S Sm Bh Vg NrK Upl

N -

F -

Du Rietz 1925c, Magnusson 1930b

Aspicilia haeyrenii (H.Magn.) Creveld

Lecanora haeyrenii H.Magn.

On siliceous rocks.

S TL

N -

F U PH-PK

Magnusson 1939a

Aspicilia hyperboreorum (Zahlbr.) Oxner

Lecanora hyperboreorum Zahlbr.

Not in F, N or S. Swedish reports refer to *Aspicilia perradiata*.

Magnusson 1939a, Magnusson 1952a

Aspicilia indissimilis (H.Magn.) Räsänen

Aspicilia contraria (H.Magn.), comb. ined.

Lecanora contraria H.Magn.

Aspicilia hultingii (H.Magn.), comb. ined.

Lecanora hultingii H.Magn.

Lecanora indissimilis H.Magn.

Aspicilia stenholmii (H.Magn.), comb. ined.

Lecanora stenholmii H.Magn.

On siliceous rocks, by streams, etc.

S Vrm Hrj-TL

N No Fi

F PeP EnL

Magnusson 1939a

Aspicilia insolata (H.Magn.) Hav.

Lecanora insolata H.Magn.

On siliceous rocks in sun-exposed places.

S Hl Bh Vg Vrm

N Ro Ho

F -

Uncertain identity.

Magnusson 1939a

Aspicilia karelica (H.Magn.) Oxner

Lecanora karelica H.Magn.

On siliceous rocks, probably close to streams, etc.

S TL

N MR

F -

Magnusson 1939a

Aspicilia laevata (Ach.) Arnold

Aspicilia cinerea var. *laevata* f. *athallina* Nyl.

Aspicilia holmiensis (H.Magn.), comb. ined.

Lecanora holmiensis H.Magn.

Lecanora laevata (Ach.) Nyl.

Aspicilia obscura (H.Magn.) T.Müll.

Lecanora obscura H.Magn.

Aspicilia subobscura (H.Magn.), comb. ined.

Lecanora subobscura H.Magn.

On non-calcareous rocks in humid and shaded places.

S Sk-Nb LuL(?)

N Ak Ho ST No-Fi

F V-Kn PeP-EnL

Magnusson 1939a

Aspicilia laevatoides (H.Magn.) Oxner

Lecanora laevatoides H.Magn.

On siliceous rocks in more or less humid and shaded places.

S LuL

N Tr Fi

F PeP InL

Uncertain identity.

Magnusson 1939a

Aspicilia laxula (H.Magn.) Brodo

Lecanora laxula H.Magn.

On non-calcareous rocks, "apparently in dusty places".

S Vg Jmt LyL

N Op MR ST

F -

Magnusson 1939a

Aspicilia lecideoidea Hue

Lecanora lecideoidea (Hue) Zahlbr.

On mica schist, etc.

S -

N Op or ST (Dovre)

F -

Identity unknown, type not located.

Magnusson 1952a, Jørgensen & Nordin 2009

Aspicilia mashiginensis (Zahlbr.) Oxner

Lecanora mashiginensis Zahlbr.

On crystalline schist in damp sites, caves, etc.

S Vsm Hls Hrj Jmt ÅsL TL

N Ho NT Tr Fi

F -

Magnusson 1939a, Magnusson 1952a, Purvis 1984, Timdal 1987a, Nordin 2004c, Berglund & Andersson 2008

Aspicilia multipunctata (Vain.)

Acarospora multipunctata Vain.

Lecanora multipunctata (Vain.) H.Magn.

Saxicolous, ornithocoprophilous.

S TL

N Fi

F -

Magnusson 1929a, Magnusson 1952a

Aspicilia njuljae (H.Magn.) Räsänen

Lecanora njuljae H.Magn.

On mica schist in a small stream.

S TL

N -

F EnL

Magnusson 1939a

Aspicilia nordlandica (H.Magn.) Degel.

Lecanora nordlandica H.Magn.

On siliceous rocks on shores.

S LuL?

N No

F -

Magnusson 1939a, Degelius 1982, Jørgensen & Nordin 2009

Aspicilia pergibbosa (H.Magn.) Räsänen

Lecanora pergibbosa H.Magn.

On siliceous or slightly calcareous rocks.

S LyL TL

N Ho No

F EnL InL

Magnusson 1939a

Aspicilia permutata sensu H.Magn.

On calcareous rocks.

S LyL LuL TL

N -

F -

Magnusson 1939a, Magnusson 1952a, Nordin 2002b

Aspicilia perradiata (Nyl.) Hue

Aspicilia disserpens (Zahlbr.) Räsänen

Lecanora disserpens (Zahlbr.) H.Magn.

On schist.

S Hrj Jmt LuL TL

N Tr

F EnL

Degelius 1943a, Nordin et al. 2011

Aspicilia plicigera (Zahlbr.) Räsänen

Not in F, N or S.

Aspicilia polychroma Anzi

Lecanora polychroma (Anzi) Nyl.

Saxicolous.

S -

N Ak

F EnL

Magnusson 1939a

Aspicilia rimulosa (H.Magn.) Vitik.

Lecanora rimulosa H.Magn.

On siliceous rocks by water.

S -

N -

F InL

Magnusson 1939a, Santesson et al. 2004

Aspicilia rivulicola (H.Magn.) Räsänen

Lecanora rivulicola H.Magn.

On siliceous rocks near streams, etc.

S TL

N ST

F -

Magnusson 1923, Magnusson 1939a

Aspicilia serpentinicola A.Nordin

Aspicilia serpentinicola (Suza) Räsänen, nom. nud.

Lecanora serpentinicola Suza, nom. nud.

Not in F, N or S. Reports from F are erroneous.

Magnusson 1939a, Nordin 2013

Aspicilia subdepressa (Nyl.) Arnold

Not in F, N or S.

***Aspicilia sublapponica* (Zahlbr.) Oxner**

Lecanora sublapponica Zahlbr.

On siliceous rocks.

S LuL TL

N -

F -

Magnusson 1939a

***Aspicilia subradians* (Nyl.) Hue**

Aspicilia stygioplaca (Nyl.) Hue

Lecanora stygioplaca Nyl.

Lecanora subradians Nyl.

Lecanora subradiasacens Nyl.

Aspicilia subradiascens (Nyl.) Hue

On siliceous rocks.

S TL

N -

F -

Magnusson 1939a, Magnusson 1952a

***Aspicilia supertegens* Arnold**

Lecanora leucostoma H.Magn., nom. nud.

Lecanora supertegens (Arnold) Zahlbr.

Aspicilia valpellinensis B.de Lesd., quoad specim. scand.

Lecanora valpellinensis (B.de Lesd.) Zahlbr., quoad specim. scand.

On non-calcareous stone often in moist places in alpine and subalpine regions.

S Htrj-TL

N Ho No Tr

F EH EnL

Magnusson 1939a

***Aspicilia verrucigera* Hue**

Aspicilia obvallata (H.Magn.) Vitik. et al., comb. inval.

Lecanora obvallata H.Magn.

Aspicilia trunciseda (H.Magn.), comb. ined.

Lecanora trunciseda H.Magn.

Aspicilia uplandica (H.Magn.) Creveld

Lecanora uplandica H.Magn.

Lecanora verrucigera (Hue) Zahlbr.

On siliceous rocks in open situation.

S Sk-TL

N Ak Op VA Ho No Fi

F U EH ES PS Ks

Magnusson 1939a

Aspicilia virginea Hue

Lecanora bicolor H.Magn., nom. nud.

Lecanora virginea (Hue) Zahlbr.

On calcareous or calcareous rocks (bird-rocks?).

S TL

N Tr

F -

Magnusson 1936b, Magnusson 1939a, Magnusson 1952a

Aspiciliella intermutans (Nyl.) M.Choisy

Aspicilia intermutans (Nyl.) Arnold

Lecanora intermutans Nyl.

Saxicolous.

S -

N -

F -

Not in F, N or S. Reports are based on misidentifications.

Eigler 1969, Zakeri et al. 2017

Aspilidea myrinii (Fr.) Hafellner

Aspicilia alexandri R.Sant.

Lecanora austronorvegica H.Magn.

Aspicilia cinerea var. *sallensis* Räsänen

Aspicilia cinerea var. *myrinii* (Fr.) Th.Fr.

Aspicilia lapponica Hue

Aspicilia myrinii (Fr.) Stein

Lecanora myrinii (Fr.) Tuck.

Lecanora myrinii var. *subadunans* Vain.

Parmelia myrinii Fr.

Aspicilia subadunans (Vain.) Räsänen

Aspicilia zahlbruckneri (Lyngé) Creveld, non *Aspicilia zahlbruckneri* C.W.Dodge

Lecanora zahlbruckneri Lyngé

On siliceous rock, crystalline schist, etc.

S Dlr-TL

N Ak-Bu Ro-ST No Fi

F V PeP InL

Fries 1871, Hafellner & Türk 2001, Jørgensen & Nordin 2009

***Asterophoma mazaediicola D.Hawksw.**

On *Calicium glaucellum*, *C. trabinellum* (apothecia).

S Up1 Dlr Hls Hrj Jmt Vb Nb ÅsL LuL

N He Op

F Ks

An *Asterophoma* sp. forms an anamorph of *Chaenothecopsis savonica* (Tibell 1991).

Hawksworth 1981b, Tibell 1991, Alstrup 1994

Athallia cerinella (Nyl.) Arup et al.

Caloplaca cerinella (Nyl.) Flagey

Caloplaca perfida Malme

On branches and twigs of deciduous trees (often *Fraxinus*), shrubs and shrublets, rarely on *Juniperus*.

S Sk-Bh Vg Ög Srm-UpI Gst Jmt

N Vf AA Ho

F V U EH PS St? EP? PK?

Degelius 1939a, Degelius 1978, Arup 2009a, Arup et al. 2013

Athallia cerinelloides (Erichsen) Arup et al.

Caloplaca cerinelloides (Erichsen) Poelt

Caloplaca pyracea var. *cerinelloides* Erichsen

On bark of trees (often *Populus*), primarily branches.

S Sk-Sm Ög UpI Mpd Jmt ÅsL

N Te NT No Tr Fi

F V U St PS

Degelius 1982, Hermansson 2008a, Arup 2009a, Arup et al. 2013

Athallia holocarpa (Hoffm.) Arup et al.

Caloplaca holocarpa (Hoffm. ex. Ach.) A.E.Wade

Caloplaca lithophila auct., non H.Magn.

On enriched siliceous rock, slate, mortar etc, rarely lignicolous or corticolous.

S Sk-Bh Vg-Dlr Hls Mpd Hrj Jmt LyL-TL

N Ak Te Ro Ho Op ST-Fi

F A-U St-ES PH PS Kn PeP Ks InL

Magnusson 1946, Hansen et al. 1987, Arup 2009a, Arup et al. 2013

Athallia pyracea (Ach.) Arup et al.

Callopisma cerinum sensu Räsänen

Caloplaca pyracea (Ach.) Zwackh

On bark of deciduous trees and shrubs, often *Populus tremula*.

S Sk-Sm Bh-LyL LuL TL

N Øf-Bu Te Ro Ho MR ST No-Fi

F A- InL

Arup 2009a, Arup et al. 2013

Athallia saxifragarum (Poelt) Arup et al.

Caloplaca saxifragarum Poelt

On plant debris on calcareous ground.

S -

N No

F EnL

Arup et al. 2014b

Athallia scopularis (Nyl.) Arup et al.

Placodium scopulare (Nyl.) H.Olivier

Caloplaca scopularis (Nyl.) Lettau

On seashore rocks manured by birds, mainly in the upper geolitoral zone.

S Bh-Sk-Nb

N Øf Ak Bu Vf AA-ST No-Fi

F A-EK EP KP OP PeP

Wade 1965, Nordin 1972, Nordin 1972, Arup et al. 2013

Athallia vitellinula (Nyl.) Arup et al.

Caloplaca lithophila H.Magn., uncertain synonym

Caloplaca vitellinula (Nyl.) H.Olivier

On siliceous rocks, mainly vertical surfaces and overhangs.

S S BI HI Bh Vg Ög Srm Vrm Dlr Ång-Jmt ÅsL LyL LuL TL

N Ro-SF Tr

F V U St EH EP PS PK OP-Ks EnL InL

Wade 1965, Arup 2009a, Arup et al. 2013

***Athelia arachnoidea (Berk.) Jülich**

Sclerotium lichenicola Svendsen

On various corticolous lichens.

S Sk-Gst Jmt Vb

N "lower part of Eastern Norway"

F U EK EH PK

Eriksson & Ryvarde 1973, Arvidsson 1979b, Gilbert 1988

(*)Athelia epiphylla Pers.

Athelia alnicola (Bourdot & Galzin) Jülich

Athelia salicum Pers.

On dead lichens, but mostly saprophytic on bark.

S Sk-LuL

N Ak

F V-EK EH PS OP Ks

Eriksson & Ryvarde 1973

Atla alpina Savić & Tibell

Polyblastia theleodes var. *inundata* Nyl. ex Th.Fr.

On steep calcareous rocks in humid situations.

S Hrtj Jmt TL

N NT No

F Ks

Savić & Tibell 2008a, Pykälä 2011

Atla oulankaensis Pykälä & Myllys

On calcareous rock.

S -

N -

F Ks

Pykälä & Myllys 2016

Atla palicei Savić & Tibell

On calcareous rocks by streams.

S TL

N -

F Ks

Savić & Tibell 2008a, Pykälä 2013

Atla praetermissa Savić & Tibell

On calcareous rocks by streams.

S Hrj

N Tr

F -

Savić & Tibell 2008a

Atla recondita S.Tibell & Tibell

On calcareous rocks by streams.

S Hrj

N -

F -

Tibell & Tibell 2015

Atla tibelliorum Pykälä & Myllys

On dolomite pebbles.

S -

N -

F EnL

Pykälä & Myllys 2016

Atla wheldonii (Travis) Savić & Tibell

Polyblastia wheldonii Travis

On damp, basic, unstable soil.

S Vg Hrj Jmt TL

N Tr

F ES

Savić & Tibell 2008a, Pykälä 2013

Atla vitikainenii Pykälä & Myllys

On dolomite.

S -

N -

F Ks EnL

Pykälä & Myllys 2016

Austroplaca sibirica (H.Magn.) Søchting & Arup

Caloplaca sibirica H.Magn.

Austroplaca subtirolensis Søchting ad int.

On bryophytes, bark (Juniperus, Salix, etc.) and wood.

S TL

N -

F -

Magnusson 1952a, Hansen et al. 1987, Søchting 1989, Westberg et al. 2016, Søchting & Arup 2021

***Bachmanniomyces punctum (A.Massal.) Diederich & Pino-Bodas**

Lecidea cetrariicola Linds.

Nesolechia cetrariicola (Linds.) Arnold, uncertain synonym

Lecidea cladoniarina Nyl.

Patellea cladoniella (Nyl.) A.Rich.

Lecidea cladonioica Nyl.

Abrothallus lepidophilus Anzi

Lecidea punctum (A.Massal.) Jatta

Nesolechia punctum A.Massal.

Phaeopyxis punctum (A.Massal.) Rambold et al.

Bachmanniomyces uncialicola (Zopf) D.Hawksw.

Phoma uncialicola (Zopf) Vouaux

On Cladonia amaurocraea, C. coccifera, C. coniocraea, C. digitata, C. macilenta, C. parasitica, C. pocillum, C. pyxidata (phyllocladia), C. amaurocraea, C. botrytes, C. turgida (podetia), C. uncialis (podetia).

S Sm-TL

N Ak Op Ho-MR NT-Fi

F A V U EH PH Ks

Norman 1868, Hulting 1900, Degelius 1932a, Magnusson 1946, Hawksworth 1981b, Degelius 1982, Santesson 1984b, Santesson 1986, Santesson 1988, Santesson 1988, Triebel 1989, Rambold & Triebel 1990, Santesson 1994a, Santesson 1994a, Diederich et al. 2018, Suija & Jürriado 2020

***Bachmanniomyces varius (Coppins et al.) Diederich & Pino-Bodas**

Phaeopyxis varia Coppins et al.

On Trapeliopsis gelatinosa (thallus).

S Bh Vg Vrm

N Ho

F -

Triebel 1989, Rambold & Triebel 1990, Diederich et al. 2018

Bacidia absistens (Nyl.) Arnold

Bacidia intermissa (Nyl.) Malme

Lecidea intermissa Nyl.

On bark of deciduous trees and Picea.

S Sm Bh-Vg Nrk Vrm

N VA Ho MR-NT

F -

Malme 1895b, Malme 1924, Sundell 1972, Botnen & Tønsberg 1988, Tønsberg et al. 1995, Ekman 1996, Thor & Arvidsson 1999

Bacidia arceutina (Ach.) Arnold

Mainly on bark of deciduous trees, sometimes on conifers or on lignum, rarely on shaded rock.

S Sk-Upl Dlr Hls Jmt
N Ho ST NT Tr
F V-ES KP

Fries 1874, Vainio 1922, Ekman 1996

Bacidia biatorina (Körb.) Vain.

Bacidia propinqua auct., reports from Bh

On bark of deciduous trees, often Quercus or Fagus.

S Sk-Upl (western)
N Vf AA VA ST NT
F V

Malme 1924, Holien 1992b, Ekman 1996, Arup et al. 1997, Thor & Arvidsson 1999, Hultengren & Stenström 2007, Pykälä 2018

Bacidia caesiovirens S.Ekman & Holien

On bryophytes or directly on bark of Sorbus, Alnus, Populus, sometimes Quercus, rarely other deciduous trees.

S -
N Ro-No
F -

Ekman & Holien 1995

Bacidia calcariella (Nyl.) Blomb. & Forssell

Lecidea calcariella Nyl.

On calcareous rock.

S -
N -
F V

To be further studied.

Vainio 1922

Bacidia dolera (Nyl.) Blomb. & Forssell

On bark of Salix caprea and Picea abies.

S -
N -
F PH

Not a member of the Ramalinaceae.

Vainio 1922

Bacidia fraxinea Lönnr.

Bacidia fallax (Körb.) Lettau

On bark of deciduous trees.

S Bl-Hls (an eastern sp.)
N -
F A-U St EP

Ekman & Nordin 1993

Bacidia friesiana (Hepp) Körb.

Bacidia friesiana var. *hollolensis* Vain.

On soft bark of deciduous trees and shrubs, primarily *Sambucus nigra*.

S Sk Bl Ö1 Gtl Hl Bh Vg Srm Upl

N Ho

F EH

Malme 1924, Almborn 1948, Ekman 1996, Thor & Arvidsson 1999, Hemberg 2011

Bacidia fuscoviridis (Anzi) Lettau

On slightly basic, siliceous rock or on calcareous rock in shaded sites.

S Sm(?) Ög (Omberg 1998 A. Nordin)

N Ak

F -

Wirth 1995, Nordin & Hermansson 1999, Klepsland 2020

Bacidia herbarum (Stizenb.) Arnold

Terricolous on bryophytes.

S Sk-TL

N ST Fi

F A V U EH

Fries 1874, Vainio 1922

***Bacidia killiasii (Hepp) D.Hawksw.**

Mycobilimbia killiasii (Hepp) Rehm

On *Peltigera lepidophora* (thallus).

S TL (Jukkasjärvi, Lång, Kr. exs. n. 2055)

N -

F EnL

Hawksworth 1983a

Bacidia laurocerasi (Delise ex Duby) Zahlbr.

Bacidia acerina sensu Th.Fr., Malme etc.

Bacidia atrogrisea (Delise ex Hepp) Körb., non Th.Fr. 1860

Bacidia endoleuca auct.

Bacidia subacerina Vain.

Bacidia violacea (Arnold) Arnold, non "(Crouan ex Nyl.) Arnold

On bark of deciduous trees and *Picea*.

S Bl Vg NrK Srm Vsm Upl Hls Ång

N Ak

F V U EH ES PH PK

Ekman 1996, Thor & Arvidsson 1999, Ekman 2010a

Bacidia polychroa (Th.Fr.) Körb.

Bacidia acerina (Ach.) Arnold, s. str.

Bacidia fuscorubella (Ach.) Bausch

On bark of deciduous trees.

S Sk-Gst

N Vf

F A PH

Malme 1924, Degelius 1929, Ekman 1996, Thor & Arvidsson 1999, Svensson et al. 2017b

Bacidia rivulicola (Vain.) Zahlbr.

Bilimbia rivulicola (Vain.) Vain.

Lecidea rivulicola Vain.

On rock by streams.

S -

N -

F Kn (Kiannanniemi 1877 Vainio)

Reports from S refer to *Lecanora castaneoides*.

Vainio 1922

Bacidia rosella (Pers.) De Not.

On old, deciduous trees.

S Sk-Upl

N Vf

F -

Almborn 1948, Ekman 1996, Arup et al. 1997, Thor & Arvidsson 1999

Bacidia rosellizans S.Ekman

On *Populus tremula* and *Salix caprea*.

S Hls Mpd Jmt

N -

F -

Ekman 2009

Bacidia rubella (Hoffm.) A.Massal.

Lichen corticalis Rutstr.

Bacidia luteola (Ach.) Mudd

Bacidia porriginosa (Turner) Th.Fr.

Bacidia rubella var. *porriginosa* (Turner) H.Olivier

On deciduous trees, mostly directly on the bark, sometimes on bryophytes.

S Sk-Hls Jmt

N AA-No

F A-U St EH EP

Ekman & Nordin 1993, Ekman 1996

Bacidia scopulicola (Nyl.) A.L.Sm.

On seashore rocks in the Hydropunctaria maura and Caloplaca marina zones in shaded crevices.

S Sk Bh
N Ho ST
F V

James 1970, Klinkenberg 1979

Bacidia tenella Kullh.

On tree bark and lignum.

S -
N -
F EH PH KiL EnL

Vainio 1922

Bacidia tenera (Lönnr.) Blomb. & Forssell

On sandy soil in a wood.

Original material lost.

Lönnroth 1858, Fries 1874

Bacidia verecundula (Th.Fr.) H.Magn.

On bark of Populus tremula.

S Dlr
N Fi
F -

Jørgensen & Nordin 2009, Svensson & Ekman 2014

Bacidina adastrata (Sparrius & Aptroot) M.Hauck & V.Wirth

On deciduous trees and shrubs (e.g., Sambucus), sometimes on anthropogenic substrates such as ground cover fabric.

S Sk
N -
F -

Svensson et al. 2017b

Bacidina arnoldiana (Körb.) V.Wirth & Vězda

Bacidia arnoldiana Körb.

On deciduous trees and on calcareous rocks.

S Sk Öl Dls Ög Srm Vrm Upl
N Op
F V

Magnusson 1942b, Hawksworth & Poelt 1986, Ekman 1996

Bacidina assulata (Körb.) S.Ekman

Bacidia assulata (Körb.) Vězda

Bacidia intermedia (Hepp ex Stizenb.) Arnold

Not in F, N or S.

Ekman 1996

Bacidina caligans (Nyl.) Llop & Hladún

Bacidia caligans (Nyl.) A.L.Sm.

On metal-enriched bryophytes, lignum, or rock.

S Sk ÖI Gtl HI Vg Ög Upl Dlr Gst Hls

N Bu Ho

F V

Nordin et al. 1992, Coppins 1992, Ekman 1996, Hermansson 2008a

Bacidina chlorotricula (Nyl.) Vězda & Poelt

Bacidia chlorotricula (Nyl.) A.L.Sm.

On lignum, rusted metal, pebbles, ground cover fabric, twigs of *Picea* and *Vaccinium*, rarely on bark of tree trunks.

S Sk ÖI Gtl Sm Vg Srm Vrm Upl Dlr Hls Hrl

N VA ST

F V

Diederich 1989, Vězda 1990, Nordin et al. 1992, Stridvall & Stridvall 2008, Thor 2008

Bacidina delicata (Larbal. ex Leight.) V.Wirth & Vězda

Bacidia delicatula (Larbal. ex Leight.) Coppins

Lecidea effusa var. *delicata* Larbal. ex Leight.

On shaded rock and on bark of trees and shrubs.

S Sk ÖI-HI Vg

N Øf

F V

Diederich 1989, Thor & Arvidsson 1999

Bacidina egenula (Nyl.) Vězda

Bacidia egenula (Nyl.) Arnold

Bacidia peltigericola Vain.

On siliceous rocks.

S Sk Gtl Dls Nrk Vrm Vsm Upl

N Ho

F V

Fries 1874, Magnusson 1948b, Vězda 1990

Bacidina etayana (van den Boom & Vězda) M. Hauck & V. Wirth

On wooden pole affected by metal-enriched rainwater .

S Jmt (Alsen 2006 F. Jonsson)

N -

F -

Ekman et al. 2012

Bacidina indigens (Vain.) S.Ekman & J.Gerasimova

Bacidia viridescens auct.

On moss over rock.

S -

N -

F Ks

Ekman et al. 2019a

Bacidina inundata (Fr.) Vězda

Lichingoldia gyalectiformis D.Hawksw. & Poelt

Bacidia inundata (Fr.) Kőr̀b.

Bacidia luridoglaucella Vain.

Bacidia subinundata (Nyl.) Blomb. & Forssell

On rocks (rarely wood or bark) which are often submerged.

S Sk-TL

N Ak Op Vf Ro-SF ST-Fi

F A-ES PH-PK Kn PeP-InL

Hawksworth & Poelt 1986, Vězda 1990, Jørgensen & Nordin 2009

Bacidina mendax Czarnota & Guz.-Krzem.

On concrete, dolomite and on deciduous trees.

S Sm Ög Srm Vrm Upl Dlr Gst

N Ak

F U EnL

Pykälä 2018, Ekman et al. 2019a

Bacidina modesta (Zwackh ex Vain.) S.Ekman

Woessia fusarioides D.Hawksw. et al.

Biatora modesta Zwackh ex Vain.

Bacidia sulphurella Samp.

Bacidina sulphurella (Samp.) M.Hauck & V.Wirth

On bark of deciduous trees and shrubs, sometimes on twigs of *Picea*.

S Sk Öl Vg Ög Srm Upl

N -

F -

Ekman et al. 2019a

Bacidina neosquamulosa (Aptroot & Herk) S.Ekman

Bacidia neosquamulosa Aptroot & Herk

On bark of deciduous trees and shrubs.

S Bl Sm

N -

F -

Aptroot & van Herk 1999, Arup 2002

Bacidina phacodes (Kőr̀b.) Vězda

Bacidia albescens (Stizenb.) Bausch, "(Arnold) Zwackh"

Bacidia chlorotica (A.Massal.) Zahlbr., mixtum, sec. Hedlund (1892, p. 69-70)

Bacidia phacodes Kőr̀b.

Gyalecta tarandina (Nyl.) Vain.

Lecidea tarandina Nyl., uncertain synonym

On more or less decaying wood and bark.

S Sk-Dlr Hls Htrj

N Ak ST Tr Fi

F A-U EH ES PK-Kn Ks

Vězda 1990, Thor & Arvidsson 1999

Bacidina pycnidiata (Czarnota & Coppins) Czarnota & Guz.-Krzem.

Bacidia pycnidiata Czarnota & Coppins

On bark of *Quercus robur* and *Lonicera xylosteum*.

S Sm

N -

F V

Czarnota & Coppins 2006, Pykälä 2008, Svensson et al. 2017b

Bacidina saxenii (Erichsen) M. Hauck & V. Wirth

On metal-enriched slab sheltered by barn at edge of cultivated field.

S Upl Dlr

N -

F -

Ekman et al. 2012

Bactrospora brodoi Egea & Torrente

Lecanactis patellarioides f. *hapalocheila* Lettau

Primarily on bark and lignum of *Picea abies* in damp sites.

S Jmt

N ST NT

F A U St EH

Egea & Torrente 1993a, Nordin 1996b, Holien 1998a, Holien et al. 2015

Bactrospora corticola (Nyl.) Almq.

Lecanactis dryina subsp. *corticola* (Nyl.) Lettau (non *Coniangium corticolum* Fr. nom. nud.)

On bark of old *Quercus* and *Picea*.

S Sk-Srm Vsm Jmt

N Bu Te ST NT

F -

Botnen & Tønsberg 1988, Egea & Torrente 1993a, Arup et al. 1997, Thor & Arvidsson 1999

Bactrospora dryina (Ach.) A.Massal.

Lecanactis dryina (Ach.) Vain., nom. sed non planta

Lecanactis dryophila Lettau, nom. inval.

On bark of old *Quercus*.

S Sk Öl-Sm Vg-Nrk Vsm Upl

N -

F -

Egea & Torrente 1993a, Arup et al. 1997, Thor & Arvidsson 1999

Bactrospora homalotropa (Nyl.) Egea & Torrente

Conotrema homalotropa (Nyl.) A.L.Sm.

Lecanactis homalotropa (Nyl.) Gilenstam

Lecidea homalotropa Nyl.

On smooth bark of trees and shrubs, often *Populus tremula* and *Salix caprea*.

S -

N Ho

F -

Gilenstam 1969, Tønsberg 1988a, Torrente & Egea 1989, Egea & Torrente 1993a, Blom et al. 2015

Baeomyces carneus Flörke

Baeomyces caprinus (Th.Fr.) H.Magn.

Baeomyces fuscorufescens Vain.

Baeomyces fuscorufescens f. *vaginatus* Vain.

On soil, stone etc.

S Sk-TL

N Øf-Bu Ho ST NT Tr Fi

F A-KiL EnL InL

Magnusson 1924a, Thomson 1966, Ihlen 1997a, Elvebakk & Bjerke 2006

Baeomyces placophyllus Ach.

On soil in alpine heaths, on paths, road cuts etc.

S Sm-TL

N Øf-Bu Te-Fi

F PK-InL

Hakulinen 1965, Ihlen 1997a

Baeomyces rufus (Huds.) Rebert.

Baeomyces byssoides (L.) Gaertn. et al.

Lichen fungiformis Scop.

Gongylia glareosa Körb., refers to *Baeomyces rufus* (type) + *Arthrorhaphis grisea*

Baeomyces rufus var. *carneofulvescens* Räsänen

Gongylia sabuletorum (Fr.) Stein, refers to *Baeomyces rufus* (type) + *Arthrorhaphis grisea*

On soil and stone (mainly on acidic rock), often on road cuts.

S Sk-TL

N Øf-Fi

F A-InL

Mayrhofer & Poelt 1979, Ihlen 1997a

Bagliettoa baldensis (A.Massal.) Vězda

Verrucaria baldensis A.Massal.

Verrucaria pycnosticta Vain.

On calcareous rocks.

S Öl Gtl Dls Ög NrK Srm Vsm

N Ho

F V

Poelt & Vězda 1981, Fröberg 1989, Halda 2003, Pykälä 2007, Berglund & Andersson 2008, Berglund & Andersson 2008

Bagliettoa calciseda (DC.) Gueidan & Cl.Roux

Verrucaria calciseda auct., non D.C.

Verrucaria hiascens (Ach.) Hepp

On calcareous rocks.

S Sm Öl Gtl Vg Ög Srm Vsm Dlr Hls

N Ak Ho No

F V EnL

Fröberg 1989, Gueidan & Roux 2007

Bagliettoa parmigera (J.Steiner) Vězda & Poelt

Verrucaria parmigera J.Steiner

On calcareous rocks.

S Öl Gtl? Vsm?

N Ak Ho

F -

According to Halda (2003: 24, 51) the same as *B. baldensis*.

Magnusson 1948c, Poelt & Vězda 1981, Fröberg 1989, Nimis 1993

Bagliettoa parmigerella (Zahlbr.) Vězda & Poelt

Verrucaria parmigerella Zahlbr.

On calcareous rocks.

S Gtl

N -

F V

Poelt & Vězda 1981, Halda 2003, Pykälä 2007

Bagliettoa steineri (Kuan) Vězda

Verrucaria steineri Kuan

On calcareous rocks.

S Öl Gtl

N -

F V

According to Halda (2003: 24, 59) the same as *B. baldensis*.

Poelt & Vězda 1981, Fröberg 1989, Pykälä 2017

Bellemeria alpina (Sommerf.) Clauzade & Cl.Roux

Aspicilia alpina (Sommerf.) Arnold

Lecanora alpina Sommerf., incl. v. *sulphurata* Th.Fr.

On crystalline schist, etc.

S Dlr Hrj-TL

N Op Bu Te Ho-Fi

F EP PeP EnL InL

Vězda 1978b, Purvis et al. 1987

Bellemeria cinereorufescens (Ach.) Clauzade & Cl.Roux

Aspicilia cinereorufescens (Ach.) A.Massal.

Aspicilia cinereorufescens var. *continua* Räsänen

Aspicilia cinereorufescens var. *maritima* Räsänen

Aspicilia cinereorufescens var. *obscura* Räsänen

Lecanora cinereorufescens (Ach.) Hepp

Lecanora tilasii Kullh.

On crystalline schist, etc.

S Srm-TL

N Ak-Bu Ho-ST No-Fi

F A-U EH EP PS-InL

Fries 1871, Magnusson 1952a

Bellemeria diamarta (Ach.) Hafellner & Cl.Roux

Lecanora cinereorufescens var. *diamarta* (Ach.) Nyl.

Aspicilia diamarta (Ach.) Boistel

Lecanora diamarta (Ach.) Vain.

On siliceous rocks more or less rich in iron minerals.

S Vrm Dlr Gst Hrj-TL

N Ak Op Te Ho ST-Fi

F A V St EP PS-KP PeP KiL? EnL

Vainio 1934, Magnusson 1952a

Bellemeria sanguinea (Kremp.) Hafellner & Cl.Roux

Lecanora parvula Du Rietz, nom. nud.

Aspicilia sanguinea Kremp.

Lecanora sanguinea (Kremp.) Mig.

On crystalline schist and siliceous rock.

S Dls Ög-TL

N -

F -

Magnusson 1937

Bellemeria subsorediza (Lyngé) R.Sant.

Aspicilia alpina subsp. *fraudans* Räsänen

Aspicilia subsorediza (Lyngé) R.Sant.

Lecidea subsorediza Lyngé

On siliceous rock; mainly alpine.

S Vrm Hrj-TL

N He Op NT-Fi

F EnL InL

Magnusson 1952a, Purvis 1984, Moberg 1987

Bellicidia incompta (Borrer) Kistenich et al.

Bacidia incompta (Borrer ex Hook.) Anzi

Bacidia subincompta (Nyl.) Arnold

Toniniopsis subincompta (Nyl.) Kistenich et al.

On bark and lignum of old, deciduous trees, often in or near sap leaks.

S Sk-Bh Vg-Upl

N SF MR

F V EH PS PK Kn

Thor & Arvidsson 1999, Laundon & Waterfield 2007, Ekman 2011, Nordén et al. 2013

Biatora aegrefaciens Printzen

On bark of deciduous trees and twigs of *Picea*.

S Nb LuL

N -

F -

Printzen 1995, Nordin 2001, Printzen et al. 2002

Biatora albidula Willey in Tuck.

Myrionora albidula (Willey in Tuck.) R.C.Harris

On rather smooth bark of coniferous and deciduous trees.

S Mpd

N ST

F -

Palice et al. 2013

Biatora albohyalina (Nyl.) Bagl. & Carestia

Lecidea albohyalina (Nyl.) Th.Fr.

Lecidea anomala f. *albohyalina* Nyl.

Lecidea longiconidia H.Magn.

On bark of deciduous trees.

S Sk Sm-TL

N Ak Bu Vf AA Ho ST-Fi

F V U St-ES PH-Kn PeP Ks EnL InL

Not a *Biatora* s. str.

Printzen 1995

Biatora alborufidula (Hedl.) S.Ekman & Printzen

Bacidia alborufidula (Hedl.) Zahlbr.

Lecidea alborufidula Hedl.

On bark of *Picea abies*.

S Dlr (Idre 1891 Hedlund)

N -

F -

Hedlund 1892, Printzen 1995

Biatora aureolepra T.Sprib. & Tønsberg

On bark and lignum of *Picea abies* in coniferous rainforest.

S -

N NT

F -

Spribille et al. 2009

Biatora beckhausii (Körb.) Tuck.

Bacidia beckhausii Körb.

Micarea beckhausii (Körb.) Vězda

Lecidea denigrata var. *bacidiella* Vain.

Bacidia minuscula (Anzi) Vězda

Bacidia stenospora (Hepp) Arnold

Lecidea stenospora (Hepp.) Nyl.

Lecidea umbrina subsp. *poliaena* Nyl.

On bark of deciduous trees (*Quercus*, *Populus*, *Alnus*, *Salix*, *Fagus*, etc.), rarely on coniferous trees or on lignum.

S Sk-TL

N Øf-He Bu Vf Ho-Fi

F A-EH PH-Kn PeP Ks EnL InL

Vězda et al. 1976, Poelt & Vězda 1977

Biatora chrysantha (Zahlbr.) Printzen

Lecidea chrysantha Zahlbr.

Lecidea epixanthoidiza auct., non (Nyl.) Räsänen

Lecidea epixanthoidiza var. *incana* (Sommerf.) Vain.

Biatora gyrophorica (Tønsberg) Coppins in Purvis et al.

Lecidea gyrophorica Tønsberg

On bryophytes or directly on the bark of deciduous trees or conifers.

S Sk-TL

N Ak-Bu Te-Ho ST-Fi

F V-ES PH Kn PeP

Tønsberg 1992b, Thor 1992a, Purvis et al. 1993, Printzen 1995, Arup et al. 1997

Biatora chrysanthoides Printzen & Tønsberg

On bark of deciduous and coniferous trees as well as on bryophytes on boulders or on the ground.

S Jmt

N Bu Te AA ST NT No Tr Fi

F -

Printzen & Tønsberg 2003, Ekman et al. 2019a

Biatora cuprea (Sommerf.) Fr.

Lecidea cuprea Sommerf.

On naked soil, mainly in alpine and subalpine regions.

S Dlr Hvj-TL

N He Op Te Ro Ho MR-Fi

F SoL-InL

Printzen 1995

Biatora efflorescens (Hedl.) Räsänen

Biatora efflorescens r. *ruissaloensis* (Vain.) Räsänen

Lecidea efflorescens f. *ruissaloensis* Vain.

Biatora epixanthoidiza (Nyl.) Räsänen

Lecidea epixanthoidiza Nyl.

Lecidea helvola f. *efflorescens* Hedl.

Mostly on tree bark (usually deciduous trees) rarely on bryophytes on rock.

S Sk-Nb ÅsL LuL

N Øf-Fi

F A-ES PH-PK Kn-Ks

Coppins 1989b, Tønsberg 1992b, Printzen 1995

Biatora ementiens (Nyl.) Printzen

Lecidea ementiens Nyl.

Lecidea ramulosa var. *depressa* Th.Fr.

On decaying bryophytes in mountain areas.

S Hrj LyL LuL TL

N Op ST No-Fi

F -

Magnusson 1934

Biatora fallax Hepp

On *Picea abies*.

S Dlr Jmt LyL

N Op ST NT

F A V EH PK Kn Ks

Holien 1994, Printzen 1995, Hermansson 2008a

Biatora flavopunctata (Tønsberg) Hinter. & Printzen

Lecanora flavopunctata Tønsberg

Mostly on *Salix* spp, *Betula* spp., sometimes on other montane shrubs or shrublets, rarely on *Alnus incana*.

S Dlr ÅsL LyL TL

N He-Bu Te-SF ST-Fi

F -

Tønsberg 1992b, Printzen 1995, Hermansson 2008a

Biatora globulosa (Flörke) Fr.

Bacidia globulosa (Flörke) Hafellner & V. Wirth

Catillaria globulosa (Flörke) Th. Fr.

Lecania globulosa (Flörke) van den Boom & Sérus., nom. illeg.

Lecidea globulosa Flörke

Lecania hyalina (Fr.) R. Sant.

Lecidea microsphaeroides (Nyl.) Vain.

Lecidea minuta (Schaer.) A. Massal.

On bark of deciduous trees, sometimes on lignum, rarely on polypores.

S Sk-TL

N Ak-Op Vf Ho-Fi

F A-EH PH-KiL EnL InL

Printzen 1995, Wirth 1995, Sérusiaux et al. 1999, Nash et al. 2004, Printzen & Otte 2005, Reese Naesborg et al. 2007

Biatora helvola Körb. ex Hellb.

Lecidea helvola (Körb. ex Hellb.) H. Olivier

Lecidea vernalis subsp. *helvola* (Körb. ex Hellb.) Th. Fr.

On bark of *Picea*, *Juniperus* and deciduous trees.

S Öl Sm-TL

N Ak Op Bu Te Ho NT

F V U St-ES PH PK KiL EnL

Printzen 1995

Biatora hemipolia (Nyl.) S. Ekman & Printzen

Bacidia hemipolia (Nyl.) Malme

On bark of deciduous trees, often *Quercus*, sometimes on lignum.

S Bl Ö Upl Hls PL

N -

F V St EH PH

Printzen 2014

Biatora hypophaea Printzen & Tønsberg

On deciduous trees and shrubs, sometimes on *Picea*.

S -

N He Ho ST-No

F PS

Printzen & Tønsberg 1999

Biatora kodiakensis Printzen & Tønsberg

On bark of *Alnus*, *Sorbus*, *Betula* and *Juniperus*.

S -

N No Tr? Fi?

F -

Printzen & Tønsberg 2004, Holien & Tønsberg 2012b

Biatora ligni-mollis T.Sprib. & Prinzen

On soft wood of conifer snags.

S Sm

N -

F -

Spribille et al. 2009, Fritz et al. 2014

Biatora meiocarpa (Nyl.) Arnold

Lecidea meiocarpa Nyl.

Biatora minor (Nyl.) Räsänen

On bark of deciduous trees and shrubs, sometimes on *Vaccinium myrtillus* or *Picea abies*.

S Gtl Vsm Upl Dlr Hls-Jmt ÅsL LyL LuL TL

N VA-Ho ST-Fi

F V-EK EH PH-PK KiL-InL

Holien & Tønsberg 1994, Ekman 1994, Printzen 1995, Berglund & Andersson 2008

Biatora ocelliformis (Nyl.) Arnold

Lecidea admixta Kullh.

Lecidea atroviridis (Arnold) Th.Fr.

Catillaria globulosa var. *subglobulosa* (Nyl.) Blomb. & Forssell

Lecidea ocelliformis Nyl.

Lecidea subglobulosa Nyl.

On deciduous trees and shrubs, sometimes on *Picea abies* or *Juniperus*.

S Sk-Vb

N Bu

F V U St-KP

Holien & Hilmo 1991, Printzen 1995

Biatora pallens (Kullh.) Printzen

Bacidia lyngeana Erichsen

Bilimbia minima (Vain.) Räsänen

Bacidia pallens (Kullh.) Zahlbr.

Bilimbia pallens Kullh.

Cliostomum pallens (Kullh.) S.Ekman

Bilimbia sphaeroides f. *minima* Vain.

On bark of deciduous trees and conifers.

S Vrm-TL

N He ST No Tr

F V EH PH-Kn Ks InL

Degelius 1982, Printzen 1995, Ekman 1996, Ekman 1997, Printzen & Otte 2005

Biatora pontica Printzen & Tønsberg

On bark of old *Quercus* and *Tilia*.

S -

N VA

F -

Printzen & Tønsberg 2003

Biatora radiculicola Printzen et al.

On the base of trees in sheltered and humid microhabitats.

S ÅsL TL
N Fi
F Ks

Printzen et al. 2016, Ekman et al. 2019a

Biatora rufidula (Graewe) S.Ekman & Printzen

Bacidia rufidula (Graewe) Zahlbr.

Lecidea rufidula (Graewe) Stizenb.

On *Picea abies*, primarily on twigs.

S Sm-Jmt Vb ÅsL LuL
N He Op ST-No
F V

Holien 1994, Printzen 1995

Biatora sphaeroidiza (Vain.) Printzen & Holien

Lecidea sphaeroidiza Vain.

On *Picea* and deciduous trees, shrubs and shrublets, often on twigs or branches.

S Vrm Vsm Upl Dlr Hls Ång Jmt
N ST-No
F A-U EH EP PH

Holien & Hilmo 1991, Printzen 1995

Biatora subduplex (Nyl.) Räsänen ex Printzen

Lecidea subduplex Nyl.

Lecidea vernalis f. *subduplex* Nyl.

On plant debris and bryophytes, also on shrubs.

S Vrm Vsm Upl Dlr Jmt-TL
N Op Ho SF ST No-Fi
F V PH PeP KiL-EnL

Printzen 1995

Biatora toensbergii Holien & Printzen

On trunks and branches of conifers or deciduous trees and shrubs.

S Jmt
N Ro Ho MR-Tr
F -

Holien & Hilmo 1991, Printzen 1995, Jonsson 2002a

Biatora troendelagica Holien & Printzen

On decaying wood of *Picea abies*.

S -
N NT (Meldal 1991 Holien)
F -

Printzen et al. 1998

Biatora vacciniicola (Tønsberg) Printzen

Lecidea vacciniicola Tønsberg

On thin branches and twigs of deciduous trees or various shrubs and shrublets, e.g., *Vaccinium*, *Salix*, and *Calluna*.

S Dlr ÅsL LyL TL

N He-Bu Te VA-SF ST-Fi

F St PK

Tønsberg 1992b, Printzen 1995, Pykälä 2018

Biatora vernalis (L.) Fr.

Lecidea vernalis (L.) Ach.

On bryophytes or directly on the bark of trees, rarely on lignum.

S Sk-TL

N Øf-Bu Te-Fi

F A-Ks SoL-InL

Printzen 1995

Biatora veteranorum Coppins & Sérus.

Catillaria alba Coppins & Vězda, non (Schleich.) Hepp

On bark and lignum of very old trees.

S Öl

N AA

F -

Sérusiaux et al. 2010, Knutsson 2015b, Svensson et al. 2017b

Biatorella conspurcans Norman

Biatorella conspurcans var. *kuhmoensis* Vain.

Lecanora conspurcans (Norman) Hedl.

On bark of *Salix*, *Alnus*, *Populus tremula*, etc., also lignicolous.

S Gtl Dls Dlr-LyL

N He Ho Tr

F EH Kn

Fries 1874, Magnusson 1935c, Poelt & Vězda 1977

Biatorella dryophila (Almq.) Th.Fr.

Biatorella improvisa subsp. *dryophila* Almq.

On *Quercus*.

S Ög (Häradshammar before 1866 Stenhammar)

N -

F -

Fries 1874, Magnusson 1935c, Poelt & Vězda 1977

Biatorella extensa (Vain.) Räsänen

Biatorella improvisa var. *extensa* (Vain.) Vain.

On decaying wood.

S -

N -

F U EH PS PeP

Räsänen 1939

Biatorella flavella (Nyl.) Lettau

On decayed wood of *Picea abies*.

S -
N Ak
F -

Klepsland 2020

Biatorella fossarum (Dufour ex Fr.) Th.Fr.

Biatorella rousselii De Not.

On calcareous soil.

S Gtl
N -
F V

Magnusson 1935c, Poelt & Vězda 1977, Pykälä 2010b

Biatorella hemisphaerica Anzi

Biatorella fossarum auct., p.p., non (Dufour ex Fr.) Th.Fr.

Biatorella fossarum var. *rubicunda* (Th.Fr.) Th.Fr.

Biatorella rousselii auct.

On bryophytes and on calcareous soil.

S Gtl Dlr Hrj Jmt LyL
N ST Tr
F Ks

Fries 1874, Magnusson 1935c, Poelt & Vězda 1977, Hermansson 2008a, Pykälä 2010b

Biatorella tiroliensis H.Magn.

On calcareous soil with decaying moss.

S TL (Björkliden 1984 Alstrup)
N -
F -

Magnusson 1935c, Poelt & Vězda 1977, Alstrup 1986b

Biatoridium delitescens (Arnold) Hafellner

Biatorella delitescens Arnold

Strangospora delitescens (Arnold) Coppins

On deciduous trees and shrubs, rarely lignicolous.

S Sk Bl Sm Hl Bh Dls Vg Vrm Vsm Upl Dlr Hls
N Ho SF
F -

Poelt & Vězda 1977, Muhr 1987a, Hafellner 1994a, Johansson 2006, Hemberg 2014

Biatoridium monasteriense J.Lahm ex Körb.

Biatorella monasteriensis (J.Lahm ex Körb.) J.Lahm

On bark of old deciduous trees.

S Sk-Gst
N Ak-Te Ro-NT
F A V

Poelt & Vězda 1977, Arvidsson 1986, Arvidsson et al. 1988, Hafellner 1994a, Arup et al. 1997, Thor & Arvidsson 1999

***Biatoropsis hafellneri Millanes et al.**

On the thallus of species in the *Usnea fragilecens*-complex.

S -
N Ho
F -

Millanes et al. 2016

***Biatoropsis minuta Millanes et al.**

On the thallus of *Usnea barbata* and *U. lapponica*.

S Jmt LuL
N He Bu SF NT
F -

Millanes et al. 2016

***Biatoropsis usnearum Räsänen**

On *Usnea* spp. (thallus).

S Sm-Jmt
N Op Ho
F V St-PS KP PeP Ks

Santesson 1949, Hawksworth 1982a, Diederich & Christiansen 1994, Grube & de los Rios 2001

Bibbya ruginosa (Tuck.) Kistenich et al.

Lecidea ruginosa Tuck.

Toninia ruginosa (Tuck.) Herre

On calcareous or siliceous rock or soil, often among bryophytes or in fissures, associated with cyanolichens when young.

S -
N Op
F -

Norwegian specimens belong to subsp. *ruginosa*.

Tindal 1991, Kistenich et al. 2018

Bibbya subcircumspecta (Coppins) S.Ekman

Bacidia subcircumspecta Coppins

On lignum.

S Gst Dlr Jmt
N -
F -

Svensson 2007

Bibbya vermifera (Nyl.) Kistenich et al.

Bacidia hegetschweileri auct., non (Hepp) Vain.
Bacidia rhodopis Th.Fr. & Almq., "rhodaspis"
Bacidia vermifera (Nyl.) Th.Fr
Bacidia vermifera subsp. *haematomela* (Nyl.) Th.Fr.
On bark of deciduous trees, rarely on lignum.

S BI-TL
N No Fi
F A-U EH ES
Ekman 1996

Bilimbia lobulata (Sommerf.) Hafellner & Coppins

Micarea aggregata Hedl., nom. nud.
Lecidea lobulata Sommerf.
Mycobilimbia lobulata (Sommerf.) Hafellner
Myxobilimbia lobulata (Sommerf.) Hafellner in Hafellner & Türk
Toninia lobulata (Sommerf.) Lyngé
Bacidia subballinita sensu Magnusson, p.p.
Toninia syncomista (Flörke) Th.Fr.
Thalloedaema syncomistum (Flörke) Vain.
On bryophytes and on naked soil on calcareous ground.

S ÖI-TL
N Ak-Op Ro Ho MR-Fi
F A V EH Ks EnL
Timdal 1991, Hafellner & Türk 2001, Hafellner & Coppins 2004

Bilimbia microcarpa (Th.Fr.) Th.Fr.

Bacidia hypnophila subsp. *microcarpa* (Th.Fr.) Th.Fr.
Bilimbia hypnophila subsp. *microcarpa* (Th.Fr.) Th. Fr.
Bacidia microcarpa (Th.Fr.) Lettau
Bacidia microcarpa f. *frigoris* (Nilson) H.Magn.
Mycobilimbia microcarpa (Th.Fr.) Brunnb.
Myxobilimbia microcarpa (Th.Fr.) Hafellner in Hafellner & Türk
Bacidia obscurata f. *frigoris* (Nilson) Zahlbr.
Bacidia subballinita sensu Magnusson, p.p.
On bryophytes on calcareous ground.

S Bh Vg-TL
N Ak Op Te AA ST Tr Fi
F A-U EH KiL
Magnusson 1942b, Hafellner & Türk 2001

Bilimbia sabuletorum (Schreb.) Arnold

Bacidia accedens (Arnold) Lettau

Bilimbia accedens Arnold

Mycobilimbia accedens (Arnold) V. Wirth ex Hafellner

Myxobilimbia accedens (Arnold) Hafellner in Hafellner & Türk

Bacidia decedens (Stizenb.) Mig.

Bacidia hypnophila (Turner ex Ach.) Zahlbr

Bilimbia hypnophila subsp. *accedens* (Arnold) Th. Fr.

Bilimbia hypnophila (Turner ex Ach.) Th. Fr.

Bacidia sabuletorum (Schreb.) Lettau

Mycobilimbia sabuletorum (Schreb.) Hafellner

Myxobilimbia sabuletorum (Schreb.) Hafellner in Hafellner & Türk

On bryophytes and plant debris on calcareous rock, mortar, and deciduous trees.

S Sk-TL

N Ak-Vf AA Ro-SF ST-Fi

F A-ES PS PK Kn Ks KiL

Hafellner 1984, Hafellner & Türk 2001

Blastenia ammiospila (Wahlenb.) Arup et al.

Caloplaca ammiospila (Wahlenb.) H. Olivier

Caloplaca cinnamomea (Th. Fr.) H. Olivier

Caloplaca discoidalis (Vain.) Lyngé

Caloplaca ferruginea f. *vacillans* Th. Fr.

Caloplaca ferruginea var. *ammiospila* (Wahlenb.) Th. Fr.

Caloplaca ferruginea var. *cinnamomea* Th. Fr.

Caloplaca vacillans (Th. Fr.) H. Magn.

On bryophytes and plant debris on the ground, also on bark and wood.

S NrK Dlr-TL

N Ak-Op Ho SF ST-Fi

F V PeP Ks EnL InL

Malme 1932a, Hansen et al. 1987, Søchting 1989, Arup et al. 2013

Blastenia coralliza (Arup & Åkelius) Arup et al.

Caloplaca coralliza Arup & Åkelius

On bark of old deciduous trees.

S Sk Öl Sm HI Bh Vg

N VA

F -

Arup & Åkelius 2009, Arup et al. 2013

Blastenia crenularia (With.) Arup et al.

Caloplaca crenularia (With.) J.R.Laundon

Caloplaca ferruginea var. *festiva* (Ach.) Th.Fr.

Caloplaca festiva (Ach.) Zwackh

On siliceous rocks, rarely on calcareous rocks, especially on vertical surfaces.

S Sk-Srm Vrm Upl Mpd

N Øf Ak Bu-AA Ro-SF ST-Fi

F A V St-ES PS PK PeP-KiL

Arup et al. 2007, Arup et al. 2013

Blastenia furfuracea (H.Magn.) Arup et al.

Caloplaca furfuracea H.Magn.

Mainly on old barns and fenceposts, sometimes on decorticated wood of living *Picea* and *Betula*.

S ÖI Upl-Jmt

N Op

F EP

Magnusson 1951, Arup & Åkelius 2009, Arup et al. 2013

Blastenia herbidella (Hue) Servit

Caloplaca caesiorufa f. *herbidella* Hue

Caloplaca herbidella (Hue) H.Magn.

On bark of deciduous and coniferous trees, rarely on wood.

S Sk-TL

N VA Ro

F V SoL

Reports from other parts of Norway refer to *Caloplaca furfuracea*.

James 1971, Pykälä 2006, Arup & Åkelius 2009, Arup et al. 2013

Blastenia hungarica (H.Magn.) Arup et al.

Caloplaca hungarica H.Magn.

On bark of *Populus*, *Salix*, *Sorbus* etc.

S Dlr Ång Jmt

N Ro SF NT

F -

Arup 2011a, Arup et al. 2013, Vondrák et al. 2019

Blastenia monticola Arup & Vondrák

On *Salix caprea*.

S Htj

N SF

F -

Vondrák et al. 2019, Arup et al. 2021

Blastenia personata Hulting

On calcareous rocks.

S Dls (Ryr, Hulting)

N -

F -

Arup 2011a

Blastenia relictata Arup & Vondrák

Blastenia ferruginea auct., non (Huds.) A.Massal.

Caloplaca ferruginea auct., non (Huds.) Th.Fr.

Placodium ferrugineum var. *ammiospiolides* Vain.

On bark of *Populus tremula*, *Sorbus aucuparia*, etc.

S Sk-LuL

N Øf-Vf AA-Fi

F V U

Arup et al. 2013

Blastenia scabrosa (Søchting et al.) S.Y.Kond. et al.

On vertical and over-hanging, base-rich siliceous rocks.

S TL

N -

F -

Vondrák et al. 2019

Blastenia subathallina Arup & Vondrák

Caloplaca athallina H.Magn., nom. nud., non Darb.

Caloplaca depauperata H.Magn., non (Müll.Arg.) Zahlbr.

Caloplaca subathallina H.Magn.

Often on bark of *Juniperus*, sometimes on bark of *Sorbus* or on pine cones.

S Öl Gtl Sm Bh Ög Nrk

N -

F U PH (?) EnL (?)

The correct name for this species is probably *Blastenia hungarica* (H.Magn) Arup et al.

Magnusson 1944, Magnusson 1950b, Magnusson 1951, Poelt & Türk 1984

Blennothallia crispa (Huds.) Otálora et al.

Collema cheileum (Ach.) Ach.

Collema crispum (Huds.) Weber ex F.H.Wigg.

Mainly on calcareous soil, limestone, calcareous rocks, etc.

S Sk-Upl

N Ro No

F ES

Degelius 1954, Degelius 1982, Tønberg et al. 1996, Jørgensen 2007c, Pykälä 2013, Otálora et al. 2014

Botryolepraria lesdainii (Hue) Canals et al.

Lepraria lesdainii (Hue) R.C.Harris

On calcareous rock or cement in deep shade.

S Sk Öl Gtl Sm Vrm Vsm Jmt Vb

N Ho ST

F V PK EnL

Laundon 1992a, Arup & Ekman 1992, Muhr 1993, Lohtander 1994, Lindblom 1995, Canals et al. 1997, Tønberg 2002

Brianaria bauschiana (Körb.) S.Ekman & M.Svensson

Micarea bauschiana (Körb.) V.Wirth & Vězda

Lecidea infidula Nyl.

Lecidea semipallens Nyl.

On siliceous rocks.

S Sk Hl Vg Srm Vrm Vsm Hrj Jmt

N Ak VA-SF

F PS

Fries 1874, Magnusson 1949a, Magnusson 1949b, Hertel 1975c, Hertel 1975a, Vězda et al. 1976, Coppins 1983, Arup & Ekman 1992, Berglund & Andersson 2008, Ekman & Svensson 2014

Brianaria lutulata (Nyl.) S.Ekman & M.Svensson

Lecidea demarginata auct., non. Nyl.

Lecidea granvina Vain., nom. nud.

Lecidea laxula Nyl.

Micarea lutulata (Nyl.) Coppins

Lecidea paucula Nyl.

Lecidea poliodes Nyl.

Micarea poliodes (Nyl.) Vězda

Micarea umbrosa Vězda & V.Wirth.

On shaded siliceous rock, slate, etc.

S Sk Hl-Vg Srm Vrm Dlr Jmt LuL

N Ak Op Ho SF ST NT

F V EH

Vainio 1934, Magnusson 1952b, Vězda et al. 1976, Poelt & Buschardt 1978, Coppins 1983, Ekman & Svensson 2014

Brianaria sylvicola (Flot. ex Körb.) S.Ekman & M.Svensson

Lecidea hellbomii J.Lahm

Lecidea hypocyanea Vain., non Stirt.

Lecidea incincta Nyl.

Lecidea sylvicola Flot. ex Körb.

Micarea sylvicola (Flot.) Vězda & V.Wirth

Lecidea vainioi H.Magn.

On siliceous rocks.

S Sk-TL

N Ak Op Bu Ho SF ST NT? No Fi?

F A-EH EP PS-Kn PeP Ks EnL

Fries 1874, Magnusson 1946, Magnusson 1949b, Hertel 1975c, Vězda et al. 1976, Coppins 1983, Ekman & Svensson 2014

Brianaria tuberculata (Sommerf.) S.Ekman & M.Svensson

Lecidea subinfidula Nyl.

Lecidea tuberculata Sommerf.

Lecidea tuberculata var. *scandinavica* Vain.

Micarea tuberculata (Sommerf.) R.A.Anderson

On siliceous rocks.

S Sm-Jmt LyL

N Bu Vf AA SF No

F V St EH EP PS EnL

Fries 1874, Coppins 1983, Ekman & Svensson 2014

***Briancoppinsia cytospora (Vouaux) Diederich et al.**

Phoma cytospora (Vouaux) D.Hawksw.

Phyllosticta cytospora Vouaux

On Melanohalea olivacea, Ramalina calicaris, Parmelia sulcata (thallus).

S Gtl Sm Ög Upl LyL

N Op

F V U EH PS KP

Hawksworth 1981b, Hafellner 1993b, Diederich et al. 2012b, Diederich et al. 2012b, Svensson et al. 2017b

Brigantiaea fuscolutea (Dicks.) R.Sant.

Lopadium fuscoluteum (Dicks.) Mudd

On plant debris and bryophytes (on the ground or on rocks) mainly in subalpine regions.

S Jmt-TL

N Ho MR ST No-Fi

F -

Ahlner 1944, Hafellner 1997a

Brodoa atrofusca (Schaer.) Goward

Hypogymnia atrofusca (Schaer.) Räsänen

Parmelia atrofusca (Schaer.) Cromb.

Parmelia encausta var. *intestiniformis* sensu Th.Fr

Hypogymnia intestiniformis var. *atrofusca* (Schaer.) Poelt

Parmelia intestiniformis var. *atrofusca* (Schaer.) Hasselrot

On exposed rocks in the high mountains.

S Hrj Jmt LyL LuL TL

N Op-Fi

F -

Krog 1974, Østhagen 1976, Goward 1986, Thell & Westberg 2011

Brodoa intestiniformis (Vill.) Goward

Hypogymnia encausta (Sm.) W.R.Wats.

Parmelia encausta (Sm.) Ach.

Hypogymnia intestiniformis (Vill.) Räsänen

Parmelia intestiniformis (Vill.) Ach.

Mainly on exposed rocks, most common in the subalpine and lower alpine zones, rare in the south.

S Sm-TL

N Øf-Fi

F A-EK EP PS PK Kn-InL

Krog 1974, Østhagen 1976, Vitikainen 1985b, Goward 1986, Thell & Westberg 2011

Brodoa oroarctica (Krog) Goward

Hypogymnia oroarctica Krog

On exposed rocks in the high alpine zone.

S Hrj-TL

N He-Fi

F KiL EnL

Krog 1974, Østhagen 1976, Vitikainen 1985b, Goward 1986, Thell & Westberg 2011

Bryobilimbia ahlesii (Körb.) Fryday et al.

Lecidea ahlesii (Körb.) Nyl.

Mycobilimbia ahlesii (Körb.), comb. ined.

Clauzadea delincta (Nyl.) Pietschm.

Lecidea delincta Nyl.

Lecidea delincta var. *subverruculosa* Nyl.

Lecidea haemensis Vain.

Lecidea valentior Nyl.

On siliceous rocks and boulders in shade.

S Sk Hl Ög Vrm

N Ak Ho No

F A EH PK PeP

Botnen 1984, Jørgensen 1996, Meyer 2002, Arup 2004a, Arup 2004a, Arup 2015, Westberg & Arup 2016, Svensson & Owe-Larsson 2019

Bryobilimbia diapensiae (Th.Fr.) Fryday et al.

Biatora diapensiae (Th.Fr.) Hellb.

Lecidea diapensiae Th.Fr.

On dead leaves of *Diapensia lapponica*.

S Hrj-TL

N He Op MR ST Tr Fi

F KiL EnL InL

Fries 1874, Vainio 1934

Bryobilimbia fissuriseda (Poelt) Timdal et al.

Lecidea fissuriseda Poelt

Mycobilimbia fissuriseda (Poelt) Poelt & Hafellner

On calcareous schist and dolomite.

S -

N Op Tr Fi

F -

Poelt 1961a, Timdal 1992, Marthinsen et al. 2019

Bryobilimbia hypnorum (Lib.) Fryday et al.

Lecidea atrofusca (Hepp) Mudd

Lecidea contenta H.Magn.

Lecidea fusca (Schaer.) Th.Fr.

Lecidea hypnorum Lib.

Mycobilimbia hypnorum (Lib.) Kalb & Hafellner

Lecidea persistens Nyl.

Lecidea substriatula H.Magn.

Lecidea templetonii Taylor

On bryophytes on calcareous rock or soil, rarely corticolous.

S Sk-TL

N Ak-Te VA-Fi

F A-U St EH PH-InL

Magnusson 1948a, Magnusson 1952a, Wirth 1987, Kalb & Hafellner 1992, Printzen 1995, Sérusiaux et al. 1999

Bryobilimbia sanguineoatra (Wulfen) Fryday et al.

Biatora cartilaginea Lönnr.

Lecidea sanguineoatra (Wulfen) Ach.

On bryophytes on tree bases, rarely directly on the bark.

S Bl Sm-Hls Hrj Jmt Nb Lyl-TL

N Ak-Op ST No-Fi

F St ES PH

Fryday et al. 2014, Pykälä 2018

Bryocaulon divergens (Ach.) Kärnefelt

Alectoria divergens (Ach.) Nyl.

Coelocaulon divergens (Ach.) R.Howe

Cornicularia divergens Ach.

On alpine heaths, on rocks, etc., mainly in the subalpine and alpine regions.

S Dlr Mpd-Jmt Nb-TL

N He-Bu Te AA Ho-Fi

F Ks SoL-InL

Hakulinen 1965, Kärnefelt 1986, Thell & Kärnefelt 2011a

Bryodina rhypariza (Nyl.) Hafellner

Bryonora rhypariza (Nyl.) Poelt

Lecanora rhypariza Nyl.

On bryophytes (especially *Andreaea*), rarely on soil or rocks.

S Hlj-TL

N Op Ho MR ST No Tr

F -

Fries 1871, Poelt 1983b, Hafellner & Türk 2001

Bryonora castanea (Hepp) Poelt

Lecanora castanea (Hepp) Th.Fr.

Terricolous on bryophytes and plant debris, rarely lignicolous or corticolous.

S Hlj Jmt TL

N Bu Ho SF ST Tr Fi

F -

Poelt 1983b, Holtan-Hartwig 1991, Stridvall & Stridvall 2008

Bryonora curvescens (Mudd) Poelt

Lecanora castanea f. *curvescens* (Mudd) Th.Fr.

Lecania curvescens (Mudd) A.L.Sm.

Lecanora curvescens (Mudd) Nyl. ex Carroll

Lecidea sarcodea Nyl.

On bryophytes, tufts of *Andreaea* or *Grimmia*.

S Hlj-TL

N Op Bu Ho-No Fi

F EnL

Magnusson 1952a, Poelt 1983b, Holtan-Hartwig 1991

Bryonora pruinosa (Th.Fr.) Holt.-Hartw.

Lecanora castanea var. *pruinosa* Th.Fr.

Terricolous, on plant debris and lichens.

S Hlj-TL

N Op Bu Ho MR Tr Fi

F PeP EnL

Fries 1860, Holtan-Hartwig 1991

Bryonora septentrionalis Holt.-Hartw.

Terricolous, on bryophytes.

S Jmt-TL

N Op ST No

F Ks EnL

Holtan-Hartwig 1991

Bryoplaca jungermanniae (Vahl) Søchting et al.

Caloplaca jungermanniae (Vahl) Th.Fr.

On bryophytes, plant debris, soil, etc.

S Upl-TL

N Ak-Op Ho MR-Fi

F EH PH PS OP-InL

Fries 1871, Hansen et al. 1987, Arup et al. 2013

Bryoplaca sinapisperma (Lam. & DC.) Søchting et al.

Blastenia leucoraea (Ach.) Th.Fr.

Caloplaca leucoraea (Ach.) Branth

Caloplaca sinapisperma (Lam. & DC.) Maheu & Gillet

On bryophytes and lichens on calcareous soil.

S ÖI Gtl Vg-TL

N Ak-Op Vf Ho MR-Fi

F A V EH PK Kn-KiL InL

Fries 1874, Arup et al. 2013

Bryoplaca tetraspora (Nyl.) Søchting et al.

Caloplaca oligospora (Körb.) Th.Fr.

Blastenia tetraspora (Nyl.) Rehm

Caloplaca tetraspora (Nyl.) H.Olivier

On bryophytes, mostly on calcareous soil.

S Dlr Hrij-TL

N Op Ho ST Tr Fi

F Ks EnL

Fries 1874, Elvebakk & Bjerke 2006, Arup et al. 2013

Bryoria americana (Motyka) Holien

Bryoria trichodes subsp. *americana* (Motyka) Brodo & D.Hawksw.

On *Picea abies* branches.

S Vrm LuL

N Op Ho MR-No

F Kn

Brodo & Hawksworth 1977, Brodo 1992, Holien 1994, Myllys et al. 2006, Myllys et al. 2011b

Bryoria bicolor (Ehrh.) Brodo & D.Hawksw.

Alectoria bicolor (Ehrh.) Nyl.

On shaded, mossy rocks, rarely on trees (*Picea*, *Betula*, etc.).

S (Sk Bl) Sm-Mpd Hrij-Vb

N Øf-No Fi

F V U EH ES Ks

Degelius 1935, Hawksworth 1972, Brodo & Hawksworth 1977, Löfgren & Moberg 1984, Botnen & Tønsberg 1988, Kuusinen et al. 1993, Arup et al. 1997, Thor & Arvidsson 1999, Hermansson 2008a, Myllys et al. 2011b

Bryoria capillaris (Ach.) Brodo & D.Hawksw.

Alectoria cana (Ach.) Leight.

Alectoria capillaris (Ach.) Cromb.

Alectoria implexa auct., non Hoffm.

Alectoria ostrobotniae Gyeln.

Alectoria setacea (Ach.) Motyka

Bryoria setacea (Ach.) Brodo & D.Hawksw.

On trees, especially conifers, rarely on lignum.

S Sk-TL

N Øf-Tr

F A-InL

Hawksworth 1972, Brodo & Hawksworth 1977, Holien 1989, Myllys et al. 2011b, Velmala et al. 2014

Bryoria fremontii (Tuck.) Brodo & D.Hawksw.

Alectoria fremontii Tuck., incl. ssp. *erikssonii* Du Rietz

Alectoria fremontii subsp. *olivacea* Räsänen

Alectoria olivacea Räsänen

Bryoria tortuosa (Merr.) Brodo & D.Hawksw.

On Pinus and Picea, rarely on other substrates.

S Gtl Sm Ög Nrk Vrm-TL

N Øf-Bu Te Ho-Fi

F A-InL

Ahlner 1948, Brodo & Hawksworth 1977, Holien 1986, Gjerlaug 1987, Hermansson & Thor 2004a, Myllys et al. 2006, Hermansson 2008a, Velmala et al. 2009, Myllys et al. 2011b

Bryoria furcellata (Fr.) Brodo & D.Hawksw.

Alectoria nidulifera Norrl.

On trees, mainly on Pinus and Picea, sometimes on lignum.

S Bl-TL

N Øf-Fi

F A-SoL InL

Ahlner 1948, Brodo & Hawksworth 1977, Myllys et al. 2011b

Bryoria fuscescens (Gyeln.) Brodo & D.Hawksw.

Alectoria chalybeiformis (L.) Gray
Bryoria chalybeiformis (L.) Brodo & D.Hawksw.
Alectoria crispa Motyka
Alectoria fuscescens Gyeln.
Alectoria haynaldii Gyeln.
Alectoria intricans (Vain.) Motyka
Bryoria intricans (Vain.) Brodo & D.Hawksw.
Alectoria jubata auct.
Alectoria jubata var. *chalybeiformis* (L.) Ach.
Alectoria lanestris (Ach.) Gyeln.
Bryoria lanestris (Ach.) Brodo & D.Hawksw.
Alectoria positiva (Gyeln.) Motyka
Alectoria subcana (Stizenb.) Gyeln.
Bryoria subcana (Nyl. ex Stizenb.) Brodo & D.Hawksw.

On trees, especially conifers, sometimes on lignum or rocks.

S Sk-TL
N Øf-Fi
F A-InL

Brodo & Hawksworth 1977, Myllys et al. 2011b, Velmala et al. 2014

Bryoria glabra (Motyka) Brodo & D.Hawksw.

On trees, *Picea abies*.

S -
N MR-No
F Ks

Brodo & Hawksworth 1977, Holien 1992a, Myllys et al. 2006, Myllys et al. 2011b

Bryoria implexa (Hoffm.) Brodo & D.Hawksw.

Alectoria catharinae Räsänen
Alectoria flexuosa Motyka, uncertain synonym
Alectoria implexa (Hoffm.) Nyl.
Alectoria pseudofuscescens Gyeln.
Bryoria pseudofuscescens (Gyeln.) Brodo & D.Hawksw.
Alectoria subachariana Gyeln.
Alectoria zopfii Asahina

On trees (*Pinus*, *Picea*, etc.).

S Gtl Hl Bh Srm Vrm Upl-ÅsL PL LuL
N Øf-AA Ro-Fi
F A-St EH-EP PS PK Kn-SoL

Brodo & Hawksworth 1977, Krog 1979, Øiseth & Aarvik 1982, Holien 1989, Myllys et al. 2011b

Bryoria kuemmerleana (Gyeln.) Brodo & D.Hawksw.

On trees.

S Hj
N He Bu ST NT
F EnL

Velmala et al. 2014

Bryoria nadvornikiana (Gyeln.) Brodo & D.Hawksw.

Alectoria altaica (Gyeln.) Räsänen

Alectoria nadvornikiana Gyeln.

Alectoria spinulosa Ahlner, nom. nud.

Mainly on low, dead *Picea* branches, but also on other bark of *Picea* and *Pinus*, rarely on lignum or rocks.

S Dls-Ög Srm-LuL
N Øf-No
F A-U ES-Kn PeP

Ahlner 1948, Brodo & Hawksworth 1977, Oldhammer 1991, Kuusinen 1992, Thor & Arvidsson 1999, Hermansson 2008a, Myllys et al. 2011b

Bryoria nitidula (Th.Fr.) Brodo & D.Hawksw.

Alectoria lanea auct., non (Hoffm.) Vain.

Alectoria nitidula (Th.Fr.) Vain.

On the ground and on mossy rocks.

S Ång
N MR ST Fi
F SoL InL

Ahlner 1943, Ahlner 1953, Hakulinen 1966, Hawksworth 1972, Brodo & Hawksworth 1977, Moberg & Thor 1993, Tønsberg et al. 1996, Thor & Arvidsson 1999, Granbo 2002, Myllys et al. 2011b

Bryoria simplicior (Vain.) Brodo & D.Hawksw.

Alectoria simplicior (Vain.) Lyngé

On trees, mainly on twigs of *Pinus*, *Betula*, *Picea*, also on lignum.

S Vg Vrm Dlr Hls-TL
N Ak-Bu Te-Fi
F (V) St EP PK-InL

Ahlner 1948, Brodo & Hawksworth 1977, Myllys et al. 2011b

Bryoria smithii (Du Rietz) Brodo & D.Hawksw.

Alectoria smithii Du Rietz.

On big boulders, more or less shaded rock walls, rarely on trees.

S (Hl) Ög (Srm) (Upl)
N Ak Bu Vf AA-SF
F A V EH Ks

Jørgensen & Ryvarden 1970, Hawksworth 1972, Jørgensen 1972b, Kuusinen et al. 1993, Tønsberg et al. 1996, Arup et al. 1997, Thor & Arvidsson 1999, Thor 2000, Myllys et al. 2011b

Bryoria tenuis (E.Dahl) Brodo & D.Hawksw.

Alectoria tenuis E.Dahl

Among bryophytes on rock, on the ground, rarely on trees.

S Vrm Dlr
N Ak-Te VA-No Fi
F Kn

The specimen reported from TL (Alstrup 1992, p. 58) is *Bryoria chalybeiformis*.

Jørgensen & Ryvarden 1970, Jørgensen 1972b, Brodo & Hawksworth 1977, Thor & Arvidsson 1999, Myllys et al. 2006, Hermansson 2008a, Myllys et al. 2011b

Bryoria vrangiana (Gyeln.) Brodo & D.Hawksw.

Alectoria vrangiana Gyeln.

On trees.

S Dlr Mpd Ång Vb
N Op He ST-Tr
F U EH ES Ks

Velmala et al. 2014

Bryostigma lapidicola (Taylor) S.Y.Kondr. & J.-S.Hur

Arthonia lapidicola (Taylor) Branth & Rostr.

Arthonia leucodontis (Poelt & Döbbeler) Coppins

Bryostigma leucodontis Poelt & Döbbeler

Arthonia muscigena Th.Fr.

Bryostigma muscigenum (Th.Fr.) Frisch & G.Thor

On bryophytes (*Leucodon sciuroides*, *Hypnum cupressiforme*, *Isothecium*, etc.), sometimes corticolous (*Sorbus*, *Salix*, *Picea*), rarely on lignum or on rock.

S Sk-Dlr Hrj LuL? TL
N Vf NT
F V PH

The synonymy of *Lecidea lapidicola* is uncertain (G. Thor, pers. comm.).

Poelt & Döbbeler 1979, Arvidsson et al. 1988, Coppins 1989a, Holien 1992b, Holien 1992b, Ingelög 1994, Arup et al. 1997, Pykälä 2010a, Frisch et al. 2014, Cannon et al. 2020

Buellia aethalea (Ach.) Th.Fr.

Buellia aethaleoides (Nyl.) H.Olivier

Buellia baltica Erichsen

Buellia hillmannii Erichsen

Buellia sororia Th.Fr.

Buellia sororioides Erichsen

On siliceous rocks.

S Sk-Upl Gst Hls Vb Hrj-TL
N Op VA-No Tr Fi
F V St PS

Fries 1874, Almborn 1955b, Thomson & Scotter 1983, Scheidegger 1993, Foucard et al. 2002, Elvebakk & Bjerke 2006

Buellia arborea Coppins & Tønsberg

Primarily on lignum, sometimes on bark of conifers and Populus, then mostly on twigs and branches.

S ÖI-TL
N He-Bu AA Ro SF ST
F A V St EH EP PS PK EnL

Tønsberg 1992b, Tønsberg 1997, Foucard & Nordin 1999, Foucard et al. 2002

Buellia arnoldii Servit

On acidic bark or lignum of conifers and deciduous trees.

S Hl Ög Vrm Upl-Hls
N Ho
F EH

Schauer 1965, Rösberg 1989, Fritz 1998b, Foucard et al. 2002, Hermansson 2008a, Pykälä 2018

Buellia asterella Poelt & Sulzer

On bryophytes and soil on calcareous ground.

S -
N Op
F -

Poelt & Sulzer 1974, Trinkaus & Mayrhofer 2000, Foucard et al. 2002

Buellia badia (Fr.) A.Massal.

Monerolechia badia (Fr.) Kalb
Buellia bayrhofferi (Schaer.) H.Olivier
Buellia duebenii Fr. ex Hellb.

On siliceous rocks, often growing on *Xanthoparmelia* or *Melanelia* spp.

S ÖI-LyL
N Ak-Op ST Tr Fi
F V U EH ES InL

Fries 1874, Hafellner 1979, Scheidegger 1993, Foucard et al. 2002

Buellia chionea (Th.Fr.) Sheard

Rinodina chionea Th.Fr.

On bryophytes in alpine areas.

S Hrj Jmt
N ST Fi
F -

Fries 1871, Magnusson 1947, Foucard et al. 2002, Ahti et al. 2002

Buellia disciformis (Fr.) Mudd

Buellia gotlandica J.Steiner

Buellia lauricassiae auct. scand., p.p.

Buellia major De Not.

Buellia obtecta Kajanus

Buellia parasema (Ach.) De Not., (Lichen parasemus Ach. nom. illeg.)

Buellia parasema var. *leptocline* sensu Nyl., Räsänen, H.Magn.

Buellia triphragmia sensu Räsänen

On bark of deciduous trees.

S Sk-TL

N Ak-AA Ro-Fi

F A-InL

Fries 1874, Magnusson 1952a, Schauer 1965, Foucard et al. 2002

Buellia dives (Th.Fr.) Th.Fr.

Buellia parasema subsp. *dives* Th.Fr.

Mostly on *Alnus incana*, also on *Betula*.

S Nrk Dlr Jmt

N ST NT

F -

Fries 1874, Giralt et al. 2002, Foucard et al. 2002, Hermansson 2008a

Buellia ectolechioides (Vain.) Erichsen

Buellia crystallifera (Vain.) Hav.

Buellia dubia (Vain.) Malme

Buellia injucunda (Vain.) H.Magn.

Buellia microplaca (Vain.) Erichsen

Saxicolous.

S Hrj LyL-TL

N Op Ho SF ST No Tr Fi

F -

Magnusson 1946, Magnusson 1952a, Scheidegger 1993, Foucard et al. 2002, Elvebakk & Bjerke 2006

Buellia elegans Poelt

On bryophytes or directly on calcareous soil in dry slopes.

S -

N Op (Dovre 1995 Haugan & Timdal)

F -

Poelt & Sulzer 1974, Trinkaus & Mayrhofer 2000, Foucard et al. 2002

Buellia epigaea (Pers.) Tuck.

On bryophytes and soil on calcareous ground.

S Gtl Srm

N He Op No

F -

Fries 1874, Mattick 1940, Poelt & Sulzer 1974, Trinkaus & Mayrhofer 2000, Foucard et al. 2002

Buellia erubescens Arnold

Buellia parasema var. *saprofila* (Ach.) Körb.

Buellia subdisciformis f. *corticola* (Nyl.) Sandst.

Buellia zahlbruckneri J.Steiner

On bark of Betula, Alnus, Fagus, etc., and on lignum.

S Vrm Upl Dlr Hls Hrj PL TL

N Ak-Vf Ro-Tr

F V U EH ES PH-PK KP Kn PeP Ks InL

Magnusson 1946, Almborn 1955b, Schauer 1965, Hafellner 1979, Foucard et al. 2002

Buellia griseovirens (Turner & Borrer ex Sm.) Almb.

Buellia betulina (Hepp) Th.Fr.

Rhizocarpon betulinum (Hepp) Zwackh

Sporodium betulinum (Hepp) Vain.

Rhizocarpon efflorescens Th.Fr.

Buellia elenkinii Tomin

On bark and lignum of deciduous trees and conifers.

S Sk-Ång LuL

N Øf-Tr

F A-EK EH ES PH-KP Ks KiL

Fries 1874, Tønsberg 1992b, Nordin 1996a, Nordin 2000b, Foucard et al. 2002

Buellia jugorum (Arnold) Arnold

On siliceous rock in windy sites; initially lichenicolous.

S Hrj LuL TL

N Op Fi

F -

Scheidegger & Ruef 1988, Scheidegger 1988, Scheidegger 1993, Foucard et al. 2002

Buellia lauricassiae (Fée) Müll.Arg.

A tropical lichen, not in F, N or S.

Buellia leptocline (Flot.) Körb.

Buellia gevrensis Th.Fr.

Buellia hypopodioides (Nyl.) Arnold

On siliceous rocks.

S BI-TL

N Ak-Op Ho MR ST No Fi

F V St EH EP PS PK PeP Ks EnL InL

Fries 1874, Magnusson 1946, Scheidegger 1988, Scheidegger 1993, Foucard et al. 2002

Buellia miriquidica Scheid.

An obligately lichenicolous lichen on *Schaereria fuscocinerea*.

S Bh Vrm Jmt Nb LyL PL TL

N Fi

F -

Scheidegger 1987, Scheidegger 1988, Scheidegger 1993, Foucard et al. 2002

Buellia mougeotii (Hepp) Lojka

Unknown application.

***Buellia ocellata* (Flot.) Körb.**

Buellia verruculosa auct., non (Sm.) Mudd

On siliceous rocks.

S Sk Gtl Sm Vg

N Fi

F -

Almborn 1948, Laundon 1986, Scheidegger & Ruef 1988, Scheidegger 1988, Scheidegger 1993, Foucard et al. 2002

***Buellia polyporina* (Nyl.) Zahlbr.**

Lecidea polyporina Nyl.

On Polyporus.

S -

N -

F EH

Nylander 1865

Buellia pyrenopsoides (Vain.) Zahlbr.

A *Rinodina* sp.

Buellia saxorum A.Massal.

Not in F, N or S. Incorrectly reported from S (Vrm).

***Buellia schaereri* De Not.**

Buellia nigrinula (Nyl.) Mudd

Lecidea nigrinula Nyl.

On bark and lignum of deciduous trees and conifers, often *Pinus* or *Quercus*.

S Bl-LyL

N Ak-Bu MR ST

F A-U St-ES PH PS KP OP-KiL EnL InL

Fries 1874, Hafellner 1979, Foucard et al. 2002

***Buellia stellulata* (Taylor) Mudd**

On siliceous rocks, especially on shores.

S Sk Öl Bh

N Ro Ho

F -

Fries 1874, Almborn 1948, Scheidegger 1993, Foucard et al. 2002

Buellia subdisciformis (Leight.) Vain.

Not in F, N or S.

Buellia tesserata Körb.

On schistose rock.

S -

N (loc. not. reported, Hübener & Kurr)

F -

Fries 1874, Scheidegger 1988, Scheidegger 1993, Foucard et al. 2002, Jørgensen & Nordin 2009

Buellia uberior Anzi

Buellia malmei auct. succ.

An optional lichenicolous lichen on *Schaereria fuscocinerea*.

S Vg Hrij TL

N Ho No Fi

F -

Scheidegger 1987, Scheidegger 1988, Scheidegger 1993, Foucard et al. 2002

Buellia vilis Th.Fr.

On schist, etc.

S Vrm Jmt LyL LuL

N ST No

F -

Fries 1874, Scheidegger 1988, Scheidegger 1993, Foucard et al. 2002

***Buellia minima (Tuck.) Fink**

On *Pertusaria leioplaca* (thallus).

S Dlr (Jätturn 1990 L.-E. Muhr)

N -

F -

Hafellner 1979

Bunodophoron melanocarpum (Sw.) Wedin

Sphaerophorus compressus Ach.

Sphaerophorus melanocarpus (Sw.) DC.

On shaded, sometimes mossy, acidic rocks, sometimes on thin soil on rocks.

S -

N VA-SF

F -

Degelius 1935, Lye 1969, Wedin 1995, Tønsberg et al. 1996, Jørgensen 1996, Tibell 1999a, Blom et al. 2015

Byssoloma marginatum (Arnold) Sérus.

Bacidia marginata (Arnold) Lettau

Bacidia micromma (Nyl. ex Stizenb.) Hulting

On bark of *Picea*, *Sorbus*, and *Quercus*.

S Sk Öl Srm ("Ög" Kvarsebo) Vrm

N NT No

F -

Arnold 1864, Hulting 1925, Coppins et al. 1992, Holien 2000, Frisch et al. 2020a

Byssoloma subdiscordans (Nyl.) P.James

On shaded basic rock in a ravine.

S Dlr

N -

F -

James 1971, Hermansson & Thor 2004b

Caeruleum heppii (Nägeli ex Körb.) K.Knudsen & L.Arcadia

Acarospora heppii Nägeli ex Körb.

Myriospora heppii (Nägeli ex Körb.) Hue

Myriospora heppii Nägeli ex Hepp., nom. nud.

On calcareous, occasionally siliceous, rocks.

S Sk-TL

N Op Ho Tr

F PeP

Magnusson 1924b, Magnusson 1929a, Magnusson 1935c, Harris 2004, Harris & Knudsen 2006

Calicium abietinum Pers.

Calicium curtum Turner & Borrer ex Sm.

Calicium minutum Körb., uncertain synonym

Calicium nigrum auct., p.p.

On old wood (fences, stumps, etc.).

S (Sk) (Bl) Öl-Dlr

N Ak Vf Te MR Tr

F A-U EH PH

Many old records of *Calicium abietinum* refer to *Calicium glaucellum*.

Tibell 1975, Tibell 1977, Middelborg & Mattsson 1987, Arup et al. 1997, Thor & Arvidsson 1999, Tibell 1999a

Calicium adpersum Pers.

Calicium lenticulare sensu Nádv.

Calicium roscidum Ach.

On rough bark of *Quercus*, rarely on old wood.

S Sk-Gst

N Øf Ak Vf-AA

F EH PK Kn

Tibell 1975, Tibell 1977, Ingelög et al. 1987, Middelborg & Mattsson 1987, Tibell 1999a

Calicium corynellum (Ach.) Ach.

Calicium chlorinum auct.

Caliciella corynella (Ach.) Vain.

Calicium paroicum Ach.

On overhangs or vertical acidic rocks.

S Sk Bl Gtl-Dlr Hls Mpd

N Øf Ak Bu

F A-U St-ES PH PS Ks

Tibell 1975, Tibell 1977, Middelborg & Mattsson 1987, Tibell 1999a

Calicium denigratum (Vain.) Tibell

Calicium curtum var. *denigratum* Vain.

Calicium nigrum auct., p.p.

On old wood (especially on still standing trunks) of *Pinus*.

S Gtl Sm Vg Vrm Upl-Hls Ång-LuL

N Ak-Bu Te ST NT Tr Fi

F A-U EH PS PK Kn PeP-SoL InL

Tibell 1976b, Tibell 1977, Middelborg & Mattsson 1987, Tibell 1999a

Calicium episcalaris Tibell & Knutsson

Parasitic on *Hypocenomyce scalaris*, at least when young.

S Dls

N -

F -

Tibell & Knutsson 2016

Calicium glaucellum Ach.

Calicium minutum Körb., uncertain synonym

Calicium nigrum auct., p.p.

On old wood of deciduous or coniferous trees, sometimes also on bark of *Picea*, *Pinus*, etc.

S Sk-LuL

N Øf-Tr

F A-EH EP PK Kn-KiL

Tibell 1975, Tibell 1977, Middelborg & Mattsson 1987, Tibell 1999a

Calicium italicum (Sacc. & Speg.) Gola

Embolidium: nomen confusum.

Schmidt 1970

Calicium lenticulare Ach.

Calicium amylocaule Lettau

Calicium schaereri sensu Nádv.

Calicium subquercinum Asahina

Primarily on bark or lignum of *Picea abies* (stumps or living trees), sometimes on shaded rock or on other deciduous trees and conifers.

S Ång LuL

N He Op Vf Te Ho

F PS

Tibell 1975, Tibell 1977, Middelborg & Mattsson 1987, Thor & Arvidsson 1999, Tibell 1999a, Hermansson 2003

Calicium lucidum (Th.Fr.) M.Prieto & Wedin

Acolium lucidum Th.Fr.

Cyphelium lucidum (Th.Fr.) Th.Fr.

On bark and decorticated branches of *Pinus sylvestris*.

S Upl

N -

F -

Tibell 2007, Prieto & Wedin 2017

Calicium notarisii (Tul.) M.Prieto & Wedin

Cyphelium notarisii (Tul.) Blomb. & Forssell

Pseudocolium notarisii (Tul.) Vain.

Cyphelium tigillare subsp. *notarisii* (Tul.) W.A. Weber

Lichen viridescens Lilj., nom. dub.

On lignum of fenceposts, wooden walls, sometimes on Juniperus.

S Sk-Hls

N -

F A V

Recent finds in S only in Sk, Sm, Vg, Hl and Hls.

Tibell 1969, Tibell 1971, Tibell 1980b, Arup et al. 1997, Thor & Arvidsson 1999, Tibell 1999a, Areskoug & Thor 2005, Prieto & Wedin 2017

Calicium parvum Tibell

On dry bark of Pinus, rarely on Picea.

S Gtl Sm Dls-Hls LuL

N Ak-Op Te AA Ro MR

F V U St-OP Ks

Tibell 1975, Tibell 1977, Ingelög et al. 1987, Middelborg & Mattsson 1987, Arup et al. 1997, Tibell 1999a

Calicium pinastri Tibell

On dry bark of Pinus, rarely on other trees or on lignum.

S Vsm Dlr Hls

N Op

F V U EH PH PS KP OP

Tibell 1999a, Tibell 1999b, Jonsson 2003a

Calicium pinicola (Tibell) M.Prieto & Wedin

Cyphelium pinicola Tibell

Mostly on dry twigs of living *Pinus sylvestris*, rarely on lignum of *Picea abies* or *Betula*, decorticated stumps, wooden walls, or *Betula* bark.

S Hrtj Jmt LyL LuL TL

N He Op MR ST Tr

F -

Tibell 1969, Tibell 1971, Tibell 1980b, Middelborg & Mattsson 1987, Thor & Arvidsson 1999, Tibell 1999a, Prieto & Wedin 2017

Calicium quercinum Pers.

On bark or lignum of old *Quercus*, rarely other deciduous trees.

S Sk-Öl Sm-Vrm Upl Dlr Mpd

N Ak Ho

F A V

Tibell 1977, Middelborg & Mattsson 1987, Arup et al. 1997, Thor & Arvidsson 1999, Tibell 1999a, Dahl 2003

Calicium salicinum Pers.

Calicium lichenoides (L.) Schum.

Calicium trachelinum (Ach.) Ach.

Calicium xylonellum Ach.

On old wood, rarely on bark of *Quercus* and *Betula*.

S Sk-TL

N Øf-Fi

F A-KiL EnL

Tibell 1975, Tibell 1977, Middelborg & Mattsson 1987, Tibell 1999a

Calicium sphaerocephalum (L.) Ach.

Unknown application.

Calicium tigillare (Ach.) Pers.

Cyphelium tigillare (Ach.) Ach.

Cyphelium viridescens sensu Vain., Nádv.

On lignum or bark of *Picea*, *Pinus*, and *Quercus*.

S Sk-TL

N Ak-Bu Te Ho MR-Fi

F A-InL

Tibell 1969, Tibell 1971, Tibell 1980b, Middelborg & Mattsson 1987, Thor & Arvidsson 1999, Tibell 1999a, Prieto & Wedin 2017

Calicium trabinellum (Ach.) Ach.

Primarily on lignum of decorticated trees or stumps.

S Sm Ög-TL

N Ak-AA Ho-Fi

F A-InL

Tibell 1975, Tibell 1977, Tibell 1981b, Middelborg & Mattsson 1987, Tibell 1999a

Calicium trachyloides (Nyl. ex Branth & Rostr.) M.Prieto & Wedin

Cyphelium trachyloides (Nyl. ex. Branth & Rostr.) Erichsen

Cyphelium verrucosum Erichsen

On fence posts of *Quercus*.

S Sk Öl

N -

F -

Tibell 1969, Tibell 1971, Tibell 1980b, Arup et al. 1997, Tibell 1999a, Thor & Arvidsson 1999, Arup 1999, Arup 2013, Prieto & Wedin 2017

Calicium viride Pers.

Calicium hyperellum (Ach.) Ach.

On tree bark, sometimes on lignum.

S Sk-TL

N Øf-VA Ho-Fi

F A-InL

Tibell 1975, Tibell 1977, Middelborg & Mattsson 1987, Tibell 1999a

Callome multipartita (Sm.) Otálora et al.

Collema multipartitum Sm.

On calcareous rocks, sometimes on dolomite or calcareous schist.

S Öl Gtl Srm Vsm Upl

N Ak Bu-Te

F V

Degelius 1954, Tønsberg et al. 1996, Halonen et al. 1997, Jørgensen 2007c, Ahti et al. 2012, Otálora et al. 2014

Calogaya alaskensis (Wetmore) Arup et al.

Caloplaca alaskensis Wetmore

On wood, bark, calcareous rock, plant debris etc.

S TL

N -

F Kn

Søchting et al. 2008, Arup et al. 2013

Calogaya arnoldii (Wedd.) Arup et al.

Caloplaca arnoldii (Wedd.) Zahlbr.

Caloplaca arnoldii subsp. *obliterata* (Pers.) Gaya, doubtful taxon, fide Arup

Caloplaca pseudofulgensia Gaya & Nav.-Ros., uncertain synonym

On calcareous and calcareous rocks and dolomite.

S Sk Gtl Ög Hrj

N Öf Ak Vf Te Ho SF MR ST NT No Fi

F V Ks

Gaya 2009, Arup 2011a, Pykälä 2011, Arup et al. 2013

Calogaya biatorina (A.Massal.) Arup et al.

Caloplaca baumgartneri Zahlbr.

Caloplaca biatorina (A.Massal.) J.Steiner

On rock influenced by calcareous seepage from cement.

S Sm

N SF

F Ks

Nordin 1972, Thor & Arvidsson 1999, Westberg et al. 2006, Arup et al. 2013

Calogaya decipiens (Arnold) Arup et al.

Caloplaca decipiens (Arnold) Blomb. & Forssell

On mortar, cement, calcareous rocks, etc.

S Sk-Gst

N Øf-Op Te Ho SF ST

F A-U St-ES

Nordin 1972, Arup et al. 2013

Calogaya lobulata (Flörke) Arup et al.

Caloplaca boulyi (Zahlbr.) M.Steiner & Poelt.

Caloplaca lobulata (Flörke) Hellb.

Xanthoria lobulata (Flörke) B.de Lesd.

On twigs of deciduous trees and shrubs, primarily Fraxinus.

S Sk Öl Gtl(-Upl)

N -

F -

Degelius 1940, Hasselrot 1942a, Christiansen 1947, Steiner & Poelt 1982, Jørgensen & Coppins 1983, Arup et al. 1997, Thor & Arvidsson 1999, Arup et al. 2013, Knutsson 2015a

Calogaya pusilla (A.Massal.) Arup et al.

Caloplaca pusilla (A.Massal.) Zahlbr.

On calcareous rock and concrete.

S Öl Gtl Ög

N Ak

F V Ks

Needs further studies; status and distribution unclear, according to Arup.

Gaya 2009, Arup 2011a, Pykälä 2011, Arup et al. 2013

Calogaya schistidii (Anzi) Arup et al.

Caloplaca schistidii (Anzi) Zahlbr.

Fulgensia schistidii (Anzi) Poelt

On bryophytes (*Grimmia tergestinoides*, etc.) on calcareous rocks.

S Öl

N -

F -

Poelt 1965, Poelt & Vězda 1977, Thor & Arvidsson 1999, Westberg & Fröberg 2007, Gaya 2009, Arup et al. 2013

Caloplaca ahtii Söchting

On *Populus tremula*, etc.

S Dlr Hls Jmt Vb Nb ÅsL LyL LuL

N He Op ST Fi

F PS-InL

Söchting 1994, Arup 2009a

Caloplaca albolutescens (Nyl.) H.Olivier

On calcareous rock.

S Gtl

N -

F -

Closely related to *Pyrenodesmia*, according to Arup et al. (2013).

Arup 2011a

Caloplaca alcarum Poelt

On maritime dolomite and greenstone rocks.

S -

N Fi (E of Lakselv 1983 Søchting)

F -

Hansen et al. 1987, Søchting 1992

Caloplaca aractina (Fr.) Häyren

Caloplaca cerina var. *aractina* (Fr.) Th.Fr.

Caloplaca fuscoatra auct.

Caloplaca viridirufa auct., non (Ach.) Zahlbr.

On siliceous seashore rocks frequently visited by birds.

S Bh-Sk-Upl Ång

N Ak AA Ro-SF ST No

F V-EK

Fries 1871, Nordin 1972

Caloplaca atroalba (Tuck.) Zahlbr.

On calcareous rocks.

S Vg (Dala 1938 Magnusson)

N -

F -

Wetmore 1994

Caloplaca atrocyanescens (Th.Fr.) H.Olivier

Blastenia atrocyanescens Th.Fr.

Blastenia minuta H.Magn.

On stone in more or less humid places.

S Upl Jmt-TL

N Tr

F EH PK InL

Fries 1874, Magnusson 1950a, Elvebakk & Bjerke 2006

Caloplaca atroflava (Turner) Mong.

Caloplaca ferruginea var. *obscura* Th.Fr.

On siliceous rocks, etc.

S Sk-Upl Dlr Gst

N Ak Vf Ro No

F V U EH

Closely related to *Pyrenodesmia*, according to Arup et al. (2013).

Magnusson 1944, Hermansson 2008a

Caloplaca borealis (Vain.) Poelt

Caloplaca pyracea var. *borealis* (Vain.) Olivier

On bark of deciduous trees (*Salix*, *Sorbus*, *Alnus*, etc.).

S Upl Dlr Ång-TL

N ST-Fi

F Kn-KiL EnL InL

Poelt 1969, Hansen et al. 1987

Caloplaca bryochryson Poelt

Not in F, N or S. Report from N (Op) probably refers to *C. xanthostigmoidea*.

***Caloplaca caesiorufella* (Nyl.) Zahlbr.**

On bark and wood.

S Dlr-TL

N Tr

F -

Magnusson 1944, Søchting 1989

***Caloplaca celata* Th.Fr.**

On old reindeer antlers.

S TL (Nissontjärro 1967 Poelt)

N -

F -

Fries 1879, Magnusson 1950a, Hansen et al. 1987

***Caloplaca cerina* (Hedw.) Th.Fr.**

Caloplaca cerina var. *ehrhartii* (Schaer.) Trevis.

Caloplaca gilva (Hoffm.) Zahlbr.

Callopisma gilvum (Hoffm.) Räsänen

On bark of deciduous trees, on bryophytes and plant debris on stone, wood or bone.

S Sk-TL

N Øf-SF ST-Fi

F A-InL

Fries 1871, Hansen et al. 1987, Soun et al. 2011

***Caloplaca chlorina* (Flot.) H.Olivier**

Caloplaca cerina var. *chlorina* (Flot.) Müll.Arg.

On deciduous trees or on rock, rarely lignicolous; nitrophilous.

S Sk-Hls Hrj ÅsL LyL TL

N Øf-SF ST-Fi

F V U St-ES OP Ks InL

Tønsberg 1992b, Soun et al. 2011

***Caloplaca concilians* (Nyl.) H.Olivier**

Caloplaca ferruginea var. *nigricans* (Tuck.) Th.Fr. p.p.

Caloplaca ferruginea var. *melanocarpa* auct. non Th.Fr., specimens reported from Norway

Caloplaca melanocarpa auct. non (Th.Fr.) J.Steiner, specimens reported from Norway

On siliceous rocks, sometimes terricolous.

S Vg LyL?

N Op ST

F -

Fries 1871, Magnusson 1946, Magnusson 1950a, Wunder 1974, Andersson & Appelqvist 1982

Caloplaca conciliascens (Nyl.) Zahlbr.

On acidic and calcareous rock.

S Jmt
N ST Fi
F -

Arup 2011a

Caloplaca congregiens (Nyl.) Zahlbr.

Not in F, N or S.

Caloplaca conversa (Kremp.) Jatta

On siliceous rocks on wet localities.

S Bh
N -
F -

Determination uncertain.

Wunder 1974

Caloplaca demissa (Körb.) Arup & Grube

Lecanora demissa (Körb.) Zahlbr.

On vertical or slightly overhanging rocks.

S Bh Vg Ög Srm Vrm
N He VA Ro SF
F -

Closely related to *Pyrenodesmia*, according to Arup et al. (2013).

Degehus 1952b, Lindahl 1957, Wirth 1972, Arup & Grube 1999

Caloplaca diphyes (Nyl.) H.Olivier

Blastenia diphyes (Nyl.) Th.Fr.

On granitic rock.

S -
N -
F PeP?

Fries 1874, Magnusson 1950a, Clauzade & Roux 1985

Caloplaca diphyodes (Nyl.) Jatta

Caloplaca helygeoides (Vain.) Dalla Torre & Sarnth.

Caloplaca variabilis subsp. *diphyodes* (Nyl.) Clauzade & Cl.Roux

On siliceous, calcareous or dolomitic rocks.

S Vg(?) Ög LuL TL
N Op Tr
F EnL

Magnusson 1937, Magnusson 1950a, Wunder 1974, Poelt & Buschardt 1978, Hansen et al. 1987, Elvebakk & Bjerke 2006

Caloplaca dovrensis (H.Magn.) Degel.

Blastenia dovrensis H.Magn.

On rocks (crystalline schist) in the mountains.

S -

N Op No

F -

Uncertain status.

Magnusson 1950a, Degelius 1982, Jørgensen & Nordin 2009

Caloplaca epithallina Lyngø

On *Dimelaena oreina*, *Rhizoplaca melanophthalma*, and *Rhizoplaca subdiscrepans* on rocks.

S TL

N He Op

F -

Other published records from N and S do not refer to this species.

Poelt 1958b, Creveld 1981, Poelt 1985

Caloplaca erythrocarpa (Pers.) Zwackh

Caloplaca arenaria auct., non (Pers.) Müll.Arg.

Caloplaca teicholyta auct., non (Ach.) J.Steiner

The Nordic material reported as *C. erythrocarpa* belong to *C. albolutescens* (Arup 2011).

Fries 1871, Christiansen et al. 1979

Caloplaca exsecuta (Nyl.) Dalla Torre & Sarnth.

Blastenia exsecuta (Nyl.) Servit

Saxicolous.

S Vrm Hvj Jmt LyL TL

N ST Tr Fi

F EnL

Magnusson 1946, Magnusson 1950a, Magnusson 1952a, Wunder 1974, Hansen et al. 1987, Søchting 1989, Elvebakk & Bjerke 2006, Pykälä 2010c

Caloplaca festivella (Nyl.) Kieff.

Saxicolous, mainly on siliceous rocks.

S Sk Bh Vrm

N -

F -

Magnusson 1944, Magnusson 1950a

Caloplaca fraudans (Th.Fr.) H.Olivier

Caloplaca ferruginea var. *fraudans* Th.Fr.

On siliceous rocks, rarely on wood.

S -

N ST Tr Fi

F -

Magnusson 1944, Hansen et al. 1987, Søchting 1989

Caloplaca fuscorufa H.Magn.

Caloplaca exsecuta var. *subnigricans* H.Magn

On siliceous, calcareous and calcareous rocks.

S Jmt LyL LuL TL

N Op Ho ST Tr Fi

F EnL

Magnusson 1945b, Arup et al. 2007, Arup 2008

Caloplaca grimmiae (Nyl.) H.Olivier

Caloplaca congregiends auct., non (Nyl.) Zahlbr.

On Candelariella vitellina on rocks.

S Bh Upl Ång LyL TL

N Op ST Tr Fi

F -

Poelt 1958b, Poelt & Buschardt 1978, Poelt & Kalb 1985, Timdal 1987a, Elvebakk & Bjerke 2006

Caloplaca isidiigera Vězda

On limestone boulder and on gneiss rock influenced by calcareous sedimentary rocks.

S Hrtj PL LuL TL

N SF Tr

F EnL

Soun et al. 2011, Pykälä 2017, Klepsland 2020, Arup et al. 2021

Caloplaca latispora (Lyngé) H.Magn.

Caloplaca fraudans f. *latispora* Lyngé

On more or less calcareous rocks (crystalline schist, etc.).

S Jmt TL

N -

F -

Lyngé 1928

Caloplaca leptocheila H.Magn.

On siliceous stone and schist.

S Jmt TL

N Op (?)

F -

Magnusson 1944, Hansen et al. 1987

Caloplaca leucospilodes (Nyl.) H.Olivier

Lecanora leucospilodes Nyl.

On granitic rock.

S -

N -

F EH

Magnusson 1944

Caloplaca livida (Hepp) Jatta

On bryophytes.

S Hvj Jmt LuL TL

N Fi

F -

Magnusson 1944

Caloplaca lucifuga G.Thor

On shaded bark of old Quercus, rarely other deciduous trees.

S Sk-Hls

N Øf Ak Vf Te AA

F V

Thor 1988, Arup et al. 1997, Bratli & Haugan 1997, Thor & Arvidsson 1999

Caloplaca magni-filii Poelt

On the thallus of *Miriacidia nigroleprosa*.

S Hvj Jmt ÅsL LyL LuL TL

N He-Bu Ho SF NT Tr Fi

F -

As "*Caloplaca epithallina*" in Magnusson (1946, p. 131).

Poelt 1958b, Poelt 1962, Hertel 1975b

Caloplaca microphyllina (Tuck.) Hasse

Not in F, N or S.

Caloplaca monacensis (Leder.) Lettau

On bark of broad-leaved trees.

S Ög Upl Dlr

N Bu

F -

Arup 2011a, Soun et al. 2011, Klepsland 2020

Caloplaca nivalis (Körb.) Th.Fr.

Candelariella nivalis (Körb.) Lettau

On bryophytes (*Andreaea* and *Grimmia*) on rocks.

S Dlr-TL

N Op Ho-No Tr Fi

F EnL

Fries 1871, Hansen et al. 1987, Elvebakk & Bjerke 2006, Poelt 1986

Caloplaca obscurella (J.Lahm ex Körb.) Th.Fr.

Caloplaca sarcopidoides (Körb.) Zahlbr., "*sarcopisoides*"

On bark of deciduous trees and shrubs, sometimes on lignum.

S Sk-Hls

N Øf-No

F V

Arvidsson et al. 1988, Tønsberg 1992b, Arvidsson & Martinsson 1993

Caloplaca percrocata (Arnold) J.Steiner

On calcareous rocks.

S -

N No (Flovær 1951 Degelius)

F -

See also Magnusson (1944, p. 68).

Degelius 1955b

Caloplaca phaeocarpella (Nyl.) Zahlbr.

Caloplaca pollinii (A.Massal.) Jatta

On wood, plant debris, etc.

S Dlr-TL

N Tr

F -

Magnusson 1944, Magnusson 1952a, Sochting 1989

Caloplaca pleiophora (Nyl.) Th.Fr.

Blastenia pleiophora (Nyl.) Th.Fr.

Lecanora pleiophora Nyl.

On bark and lignum of *Salix* and *Alnus*.

S -

N -

F EH KP InL

Fries 1874, Poelt 1969

Caloplaca pyraccella (Nyl.) Blomb. & Forssell

Saxicolous.

S Jmt (Kall 1942 Ahlner)

N -

F -

Determination uncertain.

Ahlner 1944

Caloplaca raesaenii Breck.

On stump of old *Ulmus*.

S Sk (Kiaby 2005 Arup)

N -

F -

Arup 2011a

Caloplaca saxicola (Hoffm.) Nordin

Caloplaca discernenda (Nyl.) Zahlbr.

Caloplaca murorum (Ach.) Th.Fr.

Placodium murorum (Ach.) DC.

Caloplaca steropea (Ach.) Poetsch.

Caloplaca tegularis auct.

On mortar, siliceous rocks, etc., mostly on vertical surfaces.

S Sk-TL

N Øf-AA Ro-Fi

F A-PS PeP Ks SoL-InL

An illegitimate name applied to different taxa, including *Calogaya arnoldii* and *C. pusilla*. *Caloplaca saxicola* s. lat. will be retained in the checklist until the taxonomy has been clarified.

Nordin 1972

Caloplaca soralifera Vondrák & Hrouzek

Caloplaca albolutescens auct., non (Nyl.) H.Olivier

On siliceous stone, mortar, etc.

S Vg Vrm-Upl Hls

N Ak Op

F V

Closely related to *Pyrenodesmia*, according to Arup et al. (2013).

Wade 1965, Sundell 1972, Arup 2011a

Caloplaca sorocarpa (Vain.) Zahlbr.

Caloplaca cerina var. *sorocarpa* Vain.

On bark of deciduous trees and shrubs.

S Dlr Htrj ÅsL-LuL TL

N Ak-Bu Te AA Ho-Fi

F -

Magnusson 1946, Magnusson 1952a, Tønsgberg 1992b, Tønsgberg 1997, Hermansson 2008a

Caloplaca spitsbergensis H.Magn.

On dry driftwood.

S -

N Tr

F -

Elvebakk & Bjerke 2006

Caloplaca squamuloisidiata van den Boom & V.J. Rico

On N-facing, perpendicular granite rock.

S -

N SF

F -

Arup et al. 2021

Caloplaca stillicidiorum (Vahl) Lyngé

Caloplaca cerina var. *chloroleuca* (Sm.) Th.Fr.

On bryophytes and plant debris.

S Öl-Sm Vg NrK Vsm Upl Dlr Hrj Jmt Nb LyL-TL

N Ak Op AA SF ST No-Fi

F Ks

Soun et al. 2011

Caloplaca teicholyta (Ach.) J.Steiner

On concrete and mortar.

S Sk

N -

F -

Closely related to *Pyrenodesmia*, according to Arup et al. (2013).

Arup 2011a

Caloplaca tornoënsis H.Magn.

On bryophytes (*Andreaea* and *Grimmia*) on rocks.

S Jmt LyL LuL TL

N Op ST Tr Fi

F -

Magnusson 1944, Hansen et al. 1987, Elvebakk & Bjerke 2006, Poelt 1986

Caloplaca tromsoeënsis H.Magn.

On wood of *Betula*, etc.

S TL

N Tr

F InL

Magnusson 1949b, Magnusson 1952a

Caloplaca turkuensis (Vain.) Zahlbr.

Caloplaca jemtlandica H.Magn.

Placodium turkuense Vain.

On bark of deciduous trees, rarely on conifers or lignum.

S Gtl Hls Jmt ÅsL TL

N Ak Op Bu SF Fi

F V U EH

Vainio 1929, Soun et al. 2011

Caloplaca ulcerosa Coppins & P.James

On bark of old deciduous trees in parks or avenues, at churchyards etc.

S Sk-Vg Vsm

N ST

F -

Coppins & James 1979b, Arup & Ekman 1991a, Holien 1994, Thor & Arvidsson 1999, Berglund & Andersson 2008

Calvitimela aglaea (Sommerf.) Hafellner

Lecidea aglaea Sommerf.

Tephromela aglaea (Sommerf.) Hertel & Rambold

Lecidea brunneri Nyl.

Lecidea relanderi Räsänen

On siliceous rocks.

S Dls-TL

N He-Bu Ro-Fi

F V PS PeP-KiL EnL InL

Magnusson 1931, Hertel 1977a, Hertel 1991, Haugan & Timdal 1994, Hafellner & Türk 2001

Calvitimela armeniaca (DC.) Hafellner

Lecidea armeniaca (DC.) Fr.

Tephromela armeniaca (DC.) Hertel & Rambold

On siliceous rock, facultatively parasitic on *Sporastatia testudinea* when young.

S Dlr-TL

N Op Te Ho SF Tr Fi

F KiL EnL InL

Fries 1874, Magnusson 1931, Hertel 1977a, Hertel & Rambold 1985, Hafellner & Türk 2001

Calvitimela cuprea Haugan & Timdal

On siliceous, often rust-stained rock in open habitats.

S Jmt

N He Op ST NT

F -

Bendiksby et al. 2015

Calvitimela livida Haugan & Timdal

On steep to vertical faces of siliceous rock in open habitats.

S Jmt Vb LuL TL

N Op Bu NT No Tr Fi

F -

Bendiksby et al. 2015

Calvitimela melaleuca (Sommerf.) M.P.Andreev

Lecidea arctogena (Th.Fr.) H.Olivier

Lecidea armeniaca subsp. *arctogena* Th.Fr.

Lecidea leucomelaena (Vain.) Vain.

Tephromela melaleuca (Sommerf.) Haugan & Timdal

Calvitimela testaceoatra (Vain.) Hafellner

Lecidea testaceoatra Vain.

Tephromela testaceoatra (Vain.) Hertel & Rambold

Saxicolous.

S Dlr-TL

N He-Bu Te Ho SF ST No-Fi

F KiL EnL InL

Fries 1874, Magnusson 1931, Degelius 1943a, Hertel & Rambold 1985, Haugan & Timdal 1994, Hafellner & Türk 2001

Calvitimela perlata (Haugan & Timdal) M.P.Andreev

Lecidea bullata, sensu Th.Fr.

Lecidea epiploica Norman

Calvitimela perlata (Haugan & Timdal) R.Sant., 1 Febr. 2004, isonym

Lecidea perlata H.Magn., (1931) non Hue (1915).

Saxicolous.

S TL

N Op Te SF ST NT Tr

F InL

Fries 1874, Magnusson 1931, Haugan & Timdal 1994, Andreev 2003, Elvebakk & Bjerke 2006

Candelaria concolor (Dicks.) Stein

On bark of sun-exposed deciduous trees.

S Sk Vg Nrk Srm

N Øf-AA Ro-SF ST NT

F -

Poelt 1974a, Westberg & Arup 2010, Westberg & Arup 2011

Candelaria pacifica M.Westb. & Arup

On bark sun-exposed deciduous trees, sometimes on lignum.

S Sk-Bh Vg-Mpd Hrj Nb TL

N Øf-Bu Te-SF ST

F A-EP PS KP OP

Westberg 2005, Westberg & Arup 2010, Westberg & Arup 2011

Candelariella arctica (Körb.) R.Sant.

Caloplaca crenulata (Wahlenb.) Th.Fr.

Candelariella crenulata (Wahlenb.) Zahlbr.

On seashore rocks frequently visited by birds.

S Vb

N No-Fi

F -

Hakulinen 1954, Vězda 1966c, Thomson 1973, Hansson 2020

Candelariella athallina (Wedd.) Du Rietz

On mainly acidic seashore rocks.

S -

N Ho Tr Fi

F PeP

Swedish records refer to *Candelariella aurella*.

Hakulinen 1954

Candelariella aurella (Hoffm.) Zahlbr.

Candelariella aurella f. *heidelbergensis* (Nyl.) P.James

Candelariella aurella f. *smaragdula* Szatala

Candelariella cerinella (Flörke) Zahlbr.

Candelariella dispersa (Räsänen) Hakul.

Candelariella epixantha auct., *Candelariella epixantha* (Ach.) Sandst. is a *Caloplaca* sp. fide Hakulinen

Candelariella heidelbergensis (Nyl.) Poelt

Candelariella litoralis Hakul.

Caloplaca subsimilis Th.Fr.

On rock, mortar, bark, soil, etc.; somewhat calciphilous.

S Sk-TL

N Øf Ak Op Bu Ho ST No-Fi

F A-ES PK? KP Kn PeP Ks SoL-InL

Hakulinen 1954, Poelt 1971, Thomson 1973, Poelt & Vězda 1977, Gilbert et al. 1981, Poelt & Mayrhofer 1988

Candelariella borealis M.Westb.

On the ground among bryophytes and cyanobacteria in alpine localities.

S TL

N Tr

F -

Westberg 2007

Candelariella commutata Otte & M.Westb.

On soil and plant debris on calcareous ground.

S TL

N Ho

F -

Otte et al. 2013

Candelariella coralliza (Nyl.) H.Magn.

Candelariella pulvinata (Malbr.) Zahlbr.

On rocks frequently visited by birds.

S Sk-TL

N Øf He-Bu Ro-SF ST No Tr Fi

F A-KP Ks InL

Hakulinen 1954, Thomson 1973

Candelariella efflorescens R.C.Harris & W.R.Buck

On bark of old deciduous trees in parks or avenues, at churchyards etc.

S Sk Gtl Sm Hl Bh Vg Ög Vrm

N Ak Op Bu-Te VA-SF Tr

F -

Harris & Buck 1978, Arup & Ekman 1992

Candelariella granuliformis M.Westb.

On bryophytes, alpine.

S LuL TL

N -

F -

Westberg et al. 2011c

Candelariella kuusamoënsis Räsänen

On plant debris and soil, sometimes on rocks, old leather, other lichens, etc.

S Sk(?) TL

N No-Fi

F V-St PeP Ks SoL-InL

Hakulinen 1954

Candelariella lutella (Vain.) Räsänen

Candelariella xanthostigma var. *lutella* Vain.

On bark of deciduous trees, primarily Salix, Populus, and Alnus incana.

S Hls ÅsL TL

N Op? Te No?-Fi

F EH PS-Kn Ks EnL InL

Hakulinen 1954, Thomson 1973, Poelt 1975

Candelariella margaretae Hakul.

On mineral soil rich in plant debris on rock.

S -

N Tr (Storfjord 1951 Hakulinen)

F -

A dubious species.

Hakulinen 1954

Candelariella medians (Nyl.) A.L.Sm..

On a concrete wall.

S Sk (Lund 2003 U. Arup)

N -

F -

Arup & Westberg 2005

Candelariella placodizans (Nyl.) H.Magn.

Candelariella septentrionalis Hakul.

On bryophytes, plant debris and soil, mainly in open alpine localities.

S Hrj-TL

N Op Bu Te Ho SF ST-Fi

F EnL InL

Hakulinen 1954, Thomson 1973, Poelt & Mayrhofer 1988

Candelariella reflexa (Nyl.) Lettau

On bark of old deciduous trees in parks or avenues, at churchyards etc.

S Sk Gtl-Bh Vg Vrm Upl Jmt

N Vf Ho SF

F V U EH Ks

Hakulinen 1954, James 1971, Tønsberg 1992b, Thor & Arvidsson 1999

Candelariella subdeflexa (Nyl.) Lettau

On Ulmus and Tilia.

S Gtl

N -

F -

Svensson et al. 2020

Candelariella superdistans (Nyl.) Malme

On Lecanora populicola on Populus tremula.

S Sk-Gst

N -

F A-U St-ES

Malme 1910, Malme 1911, Hakulinen 1954

Candelariella vainioana Hakul.

Saxicolous, often on siliceous rocks by mines.

S Hvj

N ST No

F EH

Hakulinen 1954

Candelariella vitellina (Hoffm.) Müll.Arg.

Saxicolous, corticolous and lignicolous; nitrophilous.

S Sk-TL

N Øf-Fi

F A-Ks SoL-InL

Hakulinen 1954, Thomson 1973

Candelariella xanthostigma (Ach.) Lettau

On bark or lignum of old deciduous trees in parks or avenues, at churchyards etc.

S Sk-TL

N Øf-AA Ho-Fi

F A-InL

Hakulinen 1954, Thomson 1973, Tønsberg 1992b

***Capronia normandinae R.Sant. & D.Hawksw.**

On Normandina pulchella.

S -

N Ho

F -

Nordén et al. 2017b

***Capronia thamnoliae Zhurb.**

On Thamnolia vermicularis.

S -
N Tr
F -

Zhurbenko 2012

***Carbonea aggregantula (Müll.Arg.) Diederich & Triebel**

Lecidea aggregantula Müll.Arg.

Nesolechia aggregantula (Müll.Arg.) Rehm

On Lecanora polytropa (thallus).

S Jmt LyL
N Op Ho SF ST
F -

Santesson 1949, Nordin 2002b, Diederich 2003

Carbonea assimilis (Körb.) Hafellner & Hertel

Lecidea assimilis (Körb.) Th.Fr.

Obligate parasite on various lichens on siliceous rocks.

S Hl Bh Vg LyL
N Ro No Fi
F -

Fries 1874, Magnusson 1925b, Magnusson 1949a, Hertel 1969b, Hertel 1970a, Wirth 1987

Carbonea atronivea (Arnold) Hertel

Lecidea atronivea Arnold

On non-calcareous rocks (crystalline schists?).

S TL
N Ho Tr
F -

Hertel 1967, Hertel 1973, Hertel 1975a, Hertel 1983b, Elvebakk & Bjerke 2006

Carbonea intrudens (H.Magn.) Hafellner

Carbonea halacsyi sensu Hafellner & Sancho

Lecidea intrudens H.Magn.

On Rhizocarpon geographicum.

S LyL PL
N -
F -

Magnusson 1946, Magnusson 1952a, Hertel 1970a, Hafellner 2004c, Hafellner 2006

Carbonea latypizodes (Nyl.) Knoph & Rambold

Lecidea latypizodes Nyl.

On rock.

S (Vg?) Vrm
N VA
F -

Magnusson 1949a, Hertel 2001

Carbonea nivaria (Arnold) Rambold ex Hertel & Schuhwerk

Lecidea nivaria (Arnold) Dalla Torre & Sarnth.

Lecidella nivaria Arnold

Not in S, N or F. Swedish records are based on misidentifications.

Magnusson 1948b, Magnusson 1952a, Svensson & Owe-Larsson 2019

* ***Carbonea supersparsa* (Nyl.) Hertel**

Lecidea supersparsa Nyl.

Nesolechia supersparsa (Nyl.) Rehm

Nesolechia vitellinaria var. *supersparsa* (Nyl.) Keissl.

On *Lecanora polytropa*, *L. intricata*, *L. leucococca*, *L. chlorophaeodes*, *Rhizoplaca subdiscrepans* (thallus, apothecia).

S ÖI-TL

N Ro Ho ST No Fi

F V EH

Magnusson 1946, Magnusson 1952a, Hertel 1983b

* ***Carbonea vitellinaria* (Nyl.) Hertel**

Lecidea pitensis Lönnr.

Lecidea vitellinaria Nyl.

Nesolechia vitellinaria (Nyl.) Rehm

On *Candelariella vitellinaria*, *C. coralliza*, *C. placodizans*, *C. kuusamoensis* (thallus).

S Sk-TL

N Op Ro Ho ST No-Fi

F A-U EH PS KiL

Norman 1868, Degelius 1982, Hertel 1983b, Santesson 1984b, Santesson 1986, Santesson 1988

***Carbonea vorticiosa* (Flörke) Hertel**

Lecidea pullulans Th.Fr.

Lecidea vorticiosa (Flörke) Körb.

On siliceous rock, slightly calcareous crystalline schist, etc.

S Hl Bh Vg Dlr-TL

N He-Bu Ro-Fi

F V

Magnusson 1952a, Hertel 1977a, Hertel 1983b, Hertel 1985

Carbonicola anthracophila (Nyl.) Bendiksby & Timdal

Hypocenomyce albocervina, auct. in herb.

Biatora anthracophila (Nyl.) Hafellner, incl. v. *albocervina* Räsänen

Hypocenomyce anthracophila (Nyl.) P.James & Gotth. Schneid.

Lecidea anthracophila Nyl.

Lecidea cladonioides Th.Fr., incl. v. *albocervina* Räsänen

Psora cladonioides var. *albocervina* Räsänen

Psora cladonioides (Th.Fr.) Elenkin

On burnt, coniferous wood.

S Sk? Sm-LuL

N Øf-Bu Te

F V-ES PH-Ks SoL InL

Fries 1874, Timdal 1984a, Bendiksby & Timdal 2013, Schneider 1980

Carbonicola myrmecina (Ach.) Bendiksby & Timdal

Hypocenomyce castaneocinerea (Räsänen) Timdal

Psora cladonioides var. *castaneocinerea* Räsänen

On burnt coniferous wood, etc.

S BI-LuL

N Øf-He Bu-Te NT

F V? St-ES EP PS PK Kn Ks

Timdal 1984a, Bendiksby & Timdal 2013

Carneothele sphagnicola Fryday et al.

On Sphagnum hummocks.

S -

N ST NT

F -

Spribille et al. 2020

Catapyrenium cinereum (Pers.) Körb.

Dermatocarpon cinereum (Pers.) Th.Fr.

Dermatocarpon hepaticum (Ach.) Th.Fr., nom. sed non planta

Dermatocarpon tephroides (Ach.) W.Mann

Endocarpon tephroides (Ach.) Ach.

On calcareous soil, plant debris and bryophytes.

S Öl Gtl HI Ög-TL

N Ak Ro-SF ST No-Fi

F A-U PK Kn Ks SoL-InL

Albertson 1941, Magnusson 1942b, Magnusson 1945b, Breuss 1990a, Breuss 1990b, Harada 1993, Breuss 1995

Catapyrenium daedaleum (Kremp.) Stein

Dermatocarpon cartilagineum (Nyl.) Zahlbr.

Placidiopsis daedalea (Kremp.) Creveld

Dermatocarpon daedaleum (Kremp.) Th.Fr.

On plant debris and bryophytes on calcareous ground.

S Sk-TL

N Ak Op ST No-Fi

F A-U EH PK Kn Ks EnL

Breuss 1990a, Breuss 1995, Breuss 1996b

Catapyrenium psoromoides (Borrer) R.Sant.

Dermatocarpon daedaleum var. *corticola* H.Magn.

Dermatocarpon psoromoides (Borrer) Dalla Torre & Sarnth.

On deciduous trees or on bryophytes covering calcareous rocks.

S Gtl HI-Nrk Vsm

N He AA Ro

F EH

Magnusson 1955, Hawksworth et al. 1980, Breuss 1990b, Harada 1993, Breuss 1995, Thor & Arvidsson 1999, Bratli et al. 2010

Catillaria ameibospora (Hedl.) Zahlbr.

Lecidea ameibospora Hedl.

On bark or lignum of *Picea abies*.

S Dlr Hls LuL

N -

F PS

Hedlund 1892

Catillaria aphana (Nyl.) Coppins

Catillaria confusior sensu Magnusson

Saxicolous, under overhang.

S Bh (Långelanda 1926 Magnusson)

N SF NT

F -

Magnusson 1955, Coppins 1989b, Coppins 1994b, Holien et al. 2016a

Catillaria atomarioides (Müll.Arg.) H.Kilias

Lecidea atomarioides Müll.Arg.

Catillaria microcarpa R.Sant.

On siliceous rocks and roof tiles.

S Sk-Upl Hls

N Ho SF No

F V

Santesson 1939b, Degelius 1948a, Magnusson 1951, Kilias 1981, Pykälä 2008

Catillaria chalybeia (Borrer) A.Massal.

Catillaria chalybeia f. *achlora* Vain.

Catillaria lenticularis var. *vulgaris* (Körb.) Th.Fr.

Fries 1874, Magnusson 1948a, Kilius 1981

Catillaria chalybeia (Borrer) A.Massal. var. chalybeia

On siliceous rock, often near lakes, streams, or by the sea.

S Sk-Upl Hls Jmt

N Ak He Bu Te Ro-ST No-Fi

F A-EK EH Kn

Fries 1874, Magnusson 1948a, Kilius 1981

Catillaria chalybeia (Borrer) A.Massal. var. chloropoliza (Nyl.) H.Kilius

Biatorina nubila Norman

On siliceous rock, often near lakes, streams, or by the sea.

S LyL LuL TL

N Tr

F -

Fries 1874, Magnusson 1948a, Kilius 1981

Catillaria chloroticella (Nyl.) Zahlbr.

Lecidea chloroticella Nyl.

On bark of conifers.

S -

N -

F EH ES PH

Printzen 1995

Catillaria contristans (Nyl.) Zahlbr.

Catillaria dufourii (Ach. ex Nyl.) Vain.

Lecidea dufourii Ach. ex Nyl.

Catillaria sphaeralis Körb.

On bryophytes and soil rich in humus (over rocks).

S Bh Vrm Dlr Hlj Jmt LuL TL

N Op Ho MR ST No Tr Fi

F KiL EnL InL

Vainio 1934, Magnusson 1948a, Timdal 1987a, Timdal 1987a

Catillaria cryptophila Th.Fr. & Almq.

On calcareous rocks in caves, etc.

S Dls Jmt

N -

F -

Fries 1874, Hulting 1900, Mayrhofer 1988

Catillaria epigaeella (Nyl.) Th.Fr.

On naked soil.

S -

N Fi (Varanger, Norman)

F -

To Vezdaea (according to Printzen 1995).

Fries 1874, Printzen 1995

Catillaria erysiboides (Nyl.) Th.Fr.

Lecidea erysiboides Nyl.

Lignicolous.

S Sk-Ång LyL

N Ho MR-NT Tr

F U St EH PeP

Fries 1874, Hedlund 1892, Vainio 1934

Catillaria groenlandica Lyngé

On calcareous schists.

S TL (Nuolja, Björkliden 1967 Hertel)

N -

F EnL

A *Lecania* sp. according to Kiliás (1981: p. 39; not treated by Mayrhofer 1988).

Hertel 1968, Pykälä 2017

Catillaria haematophaea (Anzi) Zahlbr.

On siliceous rocks.

S -

N MR

F -

To the "*Lecidea leucophaea*-group" (*Miriquidica*) according to Kiliás (1981, p. 395). Material from Norway (in UPS) identified by Kotlov 2002.

Catillaria lenticularis (Ach.) Th.Fr.

Catillaria lenticularis var. *erubescens* (Flot.) Th.Fr. non v. *vulgaris* (Körb.) Th.Fr.

Microlecia lenticularis (Ach.) M.Choisy

Catillaria umbrinella (Nyl.) Zahlbr.

Biatorina versicolor Hellb.

On siliceous and calcareous rocks.

S Öl-Upl

N Bu Ro Ho No

F A-U EH

Magnusson 1948a, Kiliás 1981

Catillaria leucophaeotera (Nyl.) Zahlbr.

Catillaria leucophaeotera var. *serpenticola* Räsänen

Lecidea leucophaeotera Nyl.

On serpentine.

S -

N -

F PS

Räsänen 1947

* **Catillaria lobariicola (Alstrup) Coppins & Aptroot**

Phoma lobariicola Alstrup, anamorph

Scutula lobariicola Alstrup

On *Lobaria scrobiculata* (thallus).

S -

N ST NT No

F -

Alstrup 1997, Coppins & Aptroot 2008, Frisch et al. 2020a

Catillaria minuta (A.Massal.) Lettau

Catillaria arnoldii (Kremp.) Th.Fr.

On calcareous rocks.

S Gtl

N -

F -

Fries 1874, Kiliyas 1981, Thor & Arvidsson 1999

Catillaria nigroclavata (Nyl.) Schuler

Lecidea nigroclavata Nyl.

On bark or lignum of deciduous trees and conifers.

S Sk Öl Gtl Hl Bh Dls Srm Vrm Upl-Hls ÅsL LuL(?)

N Ak

F V U St

Fries 1874, Vainio 1934

Catillaria opperiens (Hellb.) Zahlbr.

Saxicolous.

S Hrtj (Hamrafjället 1878 Hellbom)

N -

F -

Hellbom 1884

Catillaria retigena (Hedl.) H.Magn.

Bacidia retigena (Hedl.) Zahlbr.

Lecidea retigena Hedl.

On bark and lignum of *Pinus* and *Picea*.

S Dlr Hls

N -

F -

Hedlund 1892, Magnusson 1950b

Catillaria rugulosa (Hepp) Lettau

Lecania rugulosa, nom. inval.

On deciduous trees or on rocks.

S Jmt

N -

F -

Almquist 1874, Hellbom 1884

Catillaria scotinodes (Nyl.) Coppins

Catillaria confusior (Nyl.) Zahlbr.

Lecidea confusior Nyl.

On siliceous, overhanging rocks.

S Dlr Jmt LyL

N Fi

F -

Kilias 1981, Gilbert et al. 1988, Coppins 1989b, Coppins 1994b, Svensson et al. 2017b

* **Catillaria stereocaulorum (Th.Fr) H.Olivier.**

Catillaria capitulata Th.Fr.

Biatora stereocaulorum Th.Fr.

Scutula stereocaulorum (Anzi) Körb.

On Stereocaulon alpinum, S. botryosum, S. glareosum, S. paschale, S. rivulorum (thallus).

S Hrj-TL

N Op SF-ST No-Fi

F U EH PS Kn EnL InL

Santesson 1984b, Santesson 1986, Santesson 1988, Santesson 1994b, Wedin et al. 2007

Catillaria timidula Th.Fr. & Almq. ex Th.Fr.

Lecidella timidula auct.

On irrigated rocks.

S Jmt (Handöl 1873 Almquist)

N -

F -

Is not a Catillaria or Lecidella.

Fries 1874, Kilias 1981, Thor & Arvidsson 1999, Knoph & Leuckert 2000

Catinaria atropurpurea (Schaer.) Vězda & Poelt

Catillaria atropurpurea (Schaer.) Th.Fr.

Lecidea intermixta var. *lignaria* Nyl.

On bark or lignum of deciduous trees and conifers.

S Sk-TL

N Ak-Bu Ro-SF ST-Fi

F V-EK EH EP-PK Kn PeP-KiL InL

Fries 1874, Poelt & Vězda 1981, Degelius 1982

Catinaria neuschildii (Körb.) P.James

Catillaria atropurpurea subsp. *neuschildii* (Körb.) Th.Fr.

Catillaria neuschildii (Körb.) Th.Fr.

On bark or lignum of deciduous trees and conifers, often *Juniperus*.

S Gtl Sm-TL

N Ak Op ST NT

F U EH PS PeP SoL

Fries 1874

Catolechia wahlenbergii (Ach.) Körb.

Buellia pulchella (Schrad.) Tuck.

Buellia wahlenbergii (Ach.) Sheard

In rock crevices in alpine regions.

S Dlr-TL

N Op Bu Ro-No Tr Fi

F EnL InL

Fries 1874, Sheard 1964, Hafellner 1978

***Cecidonia umbonella (Nyl.) Triebel & Rambold**

Lecidea umbonella Nyl.

On *Lecidea lapicida*, *L. umbonata*, *L. praenubila*, (thallus, forming galls).

S Srm Hrj Jmt PL TL

N Op Ho NT No Tr Fi

F V Ks?

Triebel & Rambold 1988, Triebel 1989, Alstrup et al. 2008

***Cecidonia xenophana (Körb.) Triebel & Rambold**

Lecidea alumnula Nyl.

Lecidea umbonella var. *alumnula* (Nyl.) Hertel

Nesolechia xenophana (Körb.) Vouaux

On *Porpidia cinereoatra*, *P. contraponenda*, *P. crustulata*, *P. flavicunda* (thallus, forming galls).

S Vg Hrj Jmt TL

N Op Ho NT No Fi

F -

Triebel & Rambold 1988, Triebel 1989, Santesson 1994a

Celothelium ischnobelum (Nyl.) M.B.Aguirre

Leptorhaphis ischnobela (Nyl.) Coppins

Tomasellia ischnobela (Nyl.) Keissl.

On smooth bark of *Ilex aquifolium* and *Corylus avellana*.

S Dls

N Ho

F -

Presumably lichenized.

Øvstedal 1979, Aguirre-Hudson 1991, Jørgensen 1996

Cephalophysis leucospila (Anzi) H.Kiliias & Scheid.

Lecidea ultima Th.Fr.

On calcareous rock.

S -

N Ho (Finse 1975 Hertel)

F -

Hertel 1975b, Kiliias 1985

***Cephalosporiopsis epiparasitaster Alstrup**

On *Chaenothecopsis pusilla* (ap.).

S -

N NT (Grong 1993 Alstrup)

F -

Alstrup 1997

***Cercidospora alpina Ihlen & Wedin**

On *Stereocaulon cumulatum* (thallus).

S Jmt LuL

N -

F -

Ihlen & Wedin 2007

***Cercidospora caudata Kernst.**

Not in F, N or S.

***Cercidospora cecidiiformans Grube & Hafellner**

On *Rhizocarpon geographicum* (thallus).

S Vb LyL

N Ho Tr

F -

Hafellner 1993b, Ihlen & Wedin 2005, Alstrup et al. 2008

***Cercidospora cladoniicola Alstrup**

On *Cladonia arbuscula* (ap.).

S -

N NT (Flatanger 1993 Alstrup)

F -

Alstrup 1997

***Cercidospora crozalsiana (H.Olivier) Nav.-Ros. et al.**

On *Squamarina lentigera* (thallus, ap.).

S Öl Gtl

N -

F -

Navarro-Rosinés et al. 1995

+Cercidospora decolorella (Nyl.) O.E.Erikss. & J.Z.Yue

Metasphaeria decolorella (Nyl.) Vain.

Verrucaria decolorella Nyl.

With Gloeocapsa etc. on terricolous bryophytes. Possibly lichenised.

S -

N Op Tr Fi

F EnL

Vainio 1921, Eriksson 1992

***Cercidospora epipolytropa (Mudd) Arnold**

Didymella epipolytropa (Mudd) Berl. & Voglino

On Lecanora polytropa, L. intricata, L. cf. dispersa (thallus, ap.).

S Öl Gtl Nrk Hls Hrj Jmt Vb ÅsL LyL TL

N Op Ho ST

F V

Magnusson 1946, Magnusson 1948b, Magnusson 1952a, Santesson 1960, Hafellner 1987b, Santesson 1994a

***Cercidospora exiguella (Nyl.) Arnold**

Didymella epipolytropa var. *exiguella* Nyl.

On Rinodina mniaraea (thallus, apothecia).

S TL

N -

F -

Magnusson 1952a, Grube & Hafellner 1990

***Cercidospora galligena Hafellner & Nav.-Ros.**

On *Aspicilia* sp. (thallus).

S Vg

N -

F -

Hafellner (1989, in herb.)

***Cercidospora lecidomae Zhurb. & Triebel**

On *Lecidoma demissum* (thallus).

S TL

N Tr

F -

Zhurbenko & Triebel 2003, Alstrup et al. 2008

***Cercidospora macrospora (Uloth) Hafellner & Nav.-Ros.**

Phacopsis macrospora Uloth.

Cercidospora ulothii Körb.

On *Protoparmeliopsis muralis* on roof tiles.

S Nrk Upl

N -

F -

Hafellner 1987b, Santesson 1994b, Santesson 1998

*** *Cercidospora parva* Hafellner & Ihlen**

On *Baeomyces rufus*, *B. placophyllus* (thallus).

S Upl ÅsL TL

N ST Fi

F -

Ihlen 1995b, Ihlen 1998

*** *Cercidospora punctillata* (Nyl.) R.Sant.**

Cercidospora decolorella var. *lichenicola* (Zopf) O.E.Erikss. & J.Z.Yue

Cercidospora lichenicola (Zopf) Hafellner

Metasphaeria lichenicola (Zopf) Vouaux

Verrucaria punctillata Nyl.

On *Solorina crocea* (thallus, apothecia), *Peltigera leucophlebia* (thallus).

S Hrg Jmt ÅsL TL

N Op SF NT Tr Fi

F -

Santesson 1949, Øvstedal 1986, Hafellner 1987b, Santesson 1988, Eriksson 1992, Santesson 1994b, Santesson et al. 2004

*** *Cercidospora soror* Obermayer & Triebel**

On *Arthrorhaphis citrinella* (thallus).

S -

N ST (Bjugn 1991 Hilmo)

F -

Hafellner & Obermayer 1995, Ihlen 1997b

*** *Cercidospora stereocaulorum* (Arnold) Hafellner**

Leptosphaeria stereocaulorum Arnold

Metasphaeria stereocaulorum (Arnold) Sacc.

Sphaerulina stereocaulorum Arnold

Metasphaeria superveniens sensu Santesson 1949, incorrect record

On *Stereocaulon alpinum*, *S. vesuvianum*, *Stereocaulon* spp. (thallus).

S Jmt TL

N SF Tr Fi

F -

Santesson 1949, Hawksworth 1982a, Hafellner 1987b, Santesson 1994a, Alstrup et al. 2008

*** *Cercidospora thamnoliicola* Ihlen**

On *Thamnotia vermicularis*.

S -

N No Tr

F -

Ihlen 1995a

* **Cercidospora trypetheliza (Nyl.) Hafellner & Obermayer**

Cercidospora arthrorhaphidicola Alstrup, "arthrorhaphidicola"

Lecidea trypetheliza Nyl.

Neonorrlinia trypetheliza (Nyl.) Syd.

Norrlinia trypetheliza (Nyl.) Vain.

On *Arthrorhaphis alpina* (thallus).

S Jmt

N Tr

F -

Vainio 1921, Poelt & Hafellner 1976, Alstrup et al. 1994, Hafellner & Obermayer 1995, Ihlen 1997b

* **Cercidospora verrucosaria (Linds.) Arnold**

Microthelia verrucosaria Linds.

On *Megaspora verrucosa* (thallus).

S Gtl Jmt LyL TL

N Tr Fi

F -

Vouaux 1913, Hawksworth 1985b

* **Cercidospora xanthoriae (Wedd) R.Sant.**

Cercidospora caudata auct., non Kernst.

Cercidospora epicarphinea auct., non (Nyl.) Grube & Hafellner

Apiosporella xanthoriae (Wedd.) Keissl.

Physalospora xanthoriae (Wedd.) Sacc. & D.Sacc.

Sphaeria xanthoriae Wedd.

On *Xanthoria elegans* (thallus).

S -

N Op (Vågå 1984 Hafellner & Ochsenhofer)

F -

Grube & Hafellner 1990, Triebel et al. 1991, Hafellner 1993b, Nash et al. 2004

Cerothallia luteoalba (Turner) Arup et al.

Caloplaca luteoalba (Turner) Th.Fr.

Candelariella luteoalba (Turner) Lettau

Lecidea luteoalba (Turner) Ach.

On sun-exposed deciduous trees, primarily *Ulmus*.

S Sk-Upl

N Ak Tr Fi

F -

Fries 1871, Hasselrot 1945b, Litterski 1992, Arup et al. 2013

Cetraria aculeata (Schreb.) Fr.

Cornicularia aculeata (Schreb.) Ach.

Coelocaulon aculeatum (Schreb.) Link

Cetraria tenuissima (L.) Vain.

Cornicularia tenuissima (L.) Räsänen

On sun-exposed dry ground with open vegetation, preferably on sand.

S Sk-ÅsL PL-TL

N Øf-Fi

F A-EK EP-Ks SoL-InL

Kärnefelt 1986, Kärnefelt et al. 1993, Thell & Kärnefelt 2011b

Cetraria ericetorum Opiz

Cetraria crispa (Ach.) Nyl.

Cetraria tenuifolia (Retz.) R.Howe

Cetraria tenuifolia f. *tectorum* Räsänen

On open ground, in heaths, in thin forests, etc.

S Sk-ÅsL PL-TL

N Øf-Fi

F A-InL

Kristinsson 1969, Kärnefelt 1979, Thell & Kärnefelt 2011b

Cetraria islandica (L.) Ach.

Kristinsson 1969, Kärnefelt 1979, Thell & Kärnefelt 2011b

Cetraria islandica (L.) Ach. subsp. crispiformis (Räsänen) Kärnefelt

On open ground, in heaths, in thin forests, etc.

S Sk-Öl Sm Bh Vg-Dlr Ång-Vb ÅsL PL-TL

N Øf-Fi

F A-PH PK-InL

Kristinsson 1969, Kärnefelt 1979, Thell & Kärnefelt 2011b

Cetraria islandica (L.) Ach. subsp. islandica

Cetraria islandica var. *paludosa* Räsänen

On open ground, in heaths, in thin forests, etc.

S Sk-TL

N Øf-Fi

F A-InL

Fries 1871, Inumaru 1939, Kristinsson 1969, Kärnefelt 1979, Thell & Kärnefelt 2011b

Cetraria muricata (Ach.) Eckfeldt

Cornicularia aculeata var. *muricata* (Ach.) Ach.
Coelocaulon aculeatum subsp. *hispidum* (Cromb.) D.Hawksw.
Cornicularia muricata (Ach.) Ach.
Coelocaulon muricatum (Ach.) J.R.Laundon
Cetraria stuppea (Flot.) Sandst.

On open rocks and on large boulders, etc.

S Sk-TL
 N Øf-Fi
 F A-KP OP-Ks SoL-InL

Kärnefelt 1986, Kärnefelt et al. 1993, Thell & Kärnefelt 2011b

Cetraria nigricans Nyl.

Cetraria capitata Lyngø

On rocks and on the ground in alpine regions.

S LuL TL
 N NT-Fi
 F OP-InL

Hakulinen 1966, Kärnefelt 1979, Thell & Kärnefelt 2011b

Cetraria odontella (Ach.) Ach.

Cornicularia odontella (Ach.) Westend.
Coelocaulon odontellum (Ach.) R.Howe

On open rocks and on large boulders, usually together with other lichens and bryophytes.

S Sm Ög-Ång Jmt-TL
 N Ak-Fi
 F A-St EH-KP OP-InL

Østhaugen 1976, Kärnefelt 1986, Thell & Kärnefelt 2011b

Cetraria sepincola (Ehrh.) Ach.

Cetraria scutata (Wulfen) Poetsch
Tuckermannopsis sepincola (Ehrh.) Hale

On twigs of trees and shrubs, sometimes lignicolous, rarely saxicolous.

S Sk-TL
 N Øf-Fi
 F A-InL

Thell & Kärnefelt 2011b

Cetrariella commixta (Nyl.) A.Thell & Kärnefelt

Cetraria commixta (Nyl.) Th.Fr.
Melanelia commixta (Nyl.) A.Thell
Platysma commixtum Nyl.
Cetraria fahlunensis sensu Vain. etc.

On rocks and boulders, especially in open places in alpine and subalpine regions.

S (Sk) Sm Bh-Hls Ång-TL
 N Øf-AA Ro-Fi
 F A-KiL EnL InL

Poelt & Vězda 1981, Thell 1995, Thell et al. 2004, Thell & Kärnefelt 2011c

Cetrariella delisei (Bory ex Schaer.) Kärnefelt & A.Thell

Cetraria delisei (Bory ex Schaer.) Nyl.

Cetraria hiascens (Fr.) Th.Fr.

On wet ground, in pits and depressions in bogs, in tundra, etc.

S Sk Bh Dls Ög Nrk Vsm-TL

N Øf-Bu Te AA Ro-Fi

F A-EP PS-InL

Kärnefelt 1979, Kärnefelt et al. 1993, Thell & Kärnefelt 2011c

Cetrariella fastigiata (Delise ex Nyl.) Kärnefelt & A.Thell

Cetraria delisei var. *fastigiata* (Nyl.) Vain.

Cetraria delisei subsp. *fastigiata* Delise ex Nyl.

Cetraria fastigiata (Delise ex Nyl.) Kärnefelt

In depressions in bogs, in tundra, etc.

S Vsm-Dlr Mpd Hrj Jmt LyL TL

N He ST NT Tr Fi

F St EP KP-PeP KiL-InL

Kärnefelt 1977, Kärnefelt 1979, Timdal 1987a, Kärnefelt et al. 1993, Thell & Kärnefelt 2011c

Cetrelia cetrarioides (Duby) W.L.Culb. & C.F.Culb.

Parmelia cetrarioides (Duby) Nyl.

On bryophytes, rocks and trees.

S (Vg Ög Upl) Dlr Mpd Hrj Jmt

N A Op Bu Te-SF

F V U EH-ES Ks

Recently (2020) separated from *C. olivetorum*. The distribution in the Nordic countries is uncertain.

Kuusinen et al. 1993, Bjelland et al. 1997

Cetrelia monachorum (Zahlbr.) W.L.Culb. & C.F.Culb.

On bryophytes, rocks and trees.

S -

N Bu

F -

Recently (2020) separated from *C. olivetorum*. The distribution in the Nordic countries is uncertain.

Bjelland et al. 1997

Cetrelia olivetorum (Nyl.) W.L.Culb. & C.F.Culb.

Parmelia olivaria sensu Th.Fr.

Parmelia olivetorum Nyl.

Parmelia rubescens (L.) Vain.

On bryophytes, rocks and trees.

S Hrj

N Op Ro SF

F PH-PK Ks

Recently (2020) split into three species. The distribution in the Nordic countries is uncertain.

Degelius 1948a, Culberson & Culberson 1968, Jørgensen & Ryvarden 1970, Golubkova 1981, Randlane & Saag 1991, Kuusinen et al. 1993, Tønsgaard et al. 1996, Bjelland et al. 1997, Thor & Arvidsson 1999, Thell & Kärnefelt 2011d

Chaenotheca balsamconensis J.L.Allen & McMullin

On dead or dying fruiting bodies of *Trichaptum abietinum* and *T. fuscoviolaceum*.

S Dls Vrm Upl Dlr Vb

N -

F -

von Hirschheydt et al. 2021

Chaenotheca brachypoda (Ach.) Tibell

Coniocybe brachypoda Ach.

Chaenotheca sulphurea (Retz.) Middelb. & J.Mattsson

Coniocybe sulphurea auct.

Coniocybe sulphurella Wahlenb.

On bark and lignum of deciduous trees and conifers.

S Sk Öl Sm Hl Dls-Ög Vrm-Hls Jmt-TL

N Øf-Te Ro SF-Tr

F A-KiL

Tibell 1978d, Middelborg & Mattsson 1987, Holien & Hilmo 1991, Tibell 1999a

Chaenotheca brunneola (Ach.) Müll.Arg.

On soft lignum of conifers and deciduous trees (stumps or standing trees), rarely corticolous.

S Sk Öl-Hl Dls-LuL

N Øf-Te VA-Tr

F A-U St-PK Kn PeP Ks EnL InL

Tibell 1978d, Tibell 1980a, Middelborg & Mattsson 1987, Tibell 1999a

Chaenotheca chlorella (Ach.) Müll.Arg.

Chaenotheca carthusiae (Harm.) Lettau

Chaenotheca suzai Nádsv.

On bark and lignum of deciduous trees and conifers.

S Sk Gtl Sm Bh-Ång Jmt Vb ÅsL LyL LuL

N Øf-Ro SF-Tr

F A-EH PH PS

Tibell 1978d, Tibell 1980a, Middelborg & Mattsson 1987, Tibell 1987b, Thor & Arvidsson 1999, Tibell 1999a

Chaenotheca chrysocephala (Turner ex Ach.) Th.Fr.

On acidic tree bark, also on lignum.

S Sk-TL

N Øf-VA Ho-Fi

F A-InL

Tibell 1978d, Tibell 1980a, Middelborg & Mattsson 1987, Litterski 1992, Tibell 1999a

Chaenotheca cinerea (Pers.) Tibell

Chaenotheca albida (Körb.) Zahlbr.

Chaenotheca schaeereri (De Not.) Zahlbr.

Chaenotheca trichialis var. *cinerea* (Pers.) Blomb. & Forssell

On bark of old, deciduous trees.

S Sm Ög Vrm Upl Dlr Jmt

N Op Te MR ST

F V Ks

Tibell 1978d, Tibell 1980a, Middelborg & Mattsson 1987, Thor & Arvidsson 1999, Tibell 1999a

Chaenotheca ferruginea (Turner ex Sm.) Mig.

Chaenotheca dilatata Räsänen

Chaenotheca melanophaea (Ach.) Zwackh

Chaenotheca trichialis f. *aurea* Vain.

On acidic bark and lignum of deciduous trees and conifers.

S Bl-LuL

N Øf-Tr

F A-Ks

Tibell 1978d, Tibell 1980a, Middelborg & Mattsson 1987, Tibell 1999a

Chaenotheca furfuracea (L.) Tibell

Coniocybe furfuracea (L.) Ach.

On tree-roots, tree-stumps, walls, thin soil, especially in crevices, etc.

S Sk-Hls Hrj-Nb LyL LuL

N Øf-Fi

F A-InL

Tibell 1978d, Middelborg & Mattsson 1987, Tibell 1999a

Chaenotheca gracilentia (Ach.) J.Mattsson & Middelb.

Coniocybe gracilentia Ach.

Cybebe gracilentia (Ach.) Tibell

On soft lignum or bark, e.g., on decaying stumps.

S Sm-Bh Vg Ög Srm-Ång Jmt ÅsL-LuL

N Ak-Bu Te Ho-Fi

F V-EH PK Kn-Ks

Tibell 1978d, Muhr 1987a, Middelborg & Mattsson 1987, Muhr 1987a, Tønberg 1992b, Thor & Arvidsson 1999, Tibell 1999a, Tibell 2002

Chaenotheca gracillima (Vain.) Tibell

Coniocybe gracillima Vain.

On old decaying wood and bark in shade, especially on stumps of conifers.

S Sm Hl Dls Vg Nrk-LyL LuL TL

N Øf-Te MR-Tr

F A-U St-EP PS PK Kn-KiL

Ahlner 1944, Tibell 1978d, Middelborg & Mattsson 1987, Arup et al. 1997, Thor & Arvidsson 1999, Tibell 1999a

Chaenotheca hispidula (Ach.) Zahlbr.

Calicium aciculare (Ach.) Ach.

Chaenotheca chlorella var. *hispidula* (Ach.) Vain.

On rough bark of old *Quercus* trunks, etc.

S Sk Bl Sm Bh Vg Ög Srm-Dlr Hrj Jmt

N He Op MR

F EH

Tibell 1978d, Tibell 1980a, Arup et al. 1997, Thor & Arvidsson 1999, Tibell 1999a, Holien 2001, Arup et al. 2013, Hemberg 2014, Hemberg 2014

Chaenotheca hygrophila Tibell

On conifer lignum.

S -

N ST

F EH

Tibell 1999a, Holien 2001

Chaenotheca laevigata Nád.

Mainly on decorticated stumps of conifers and deciduous trees, sometimes on bark of *Picea*, *Betula*, *Populus*, *Salix* or *Juniperus*.

S Dls Vrm Dlr-Ång Jmt Vb ÅsL LyL LuL TL

N He-Bu Te NT No Fi

F V EK-EH PS PK Kn PeP Ks

Tibell 1978d, Tibell 1980a, Middelborg & Mattsson 1987, Thor & Arvidsson 1999, Tibell 1999a

Chaenotheca phaeocephala (Turner) Th.Fr.

Chaenotheca chlorella auct.

Chaenotheca chlorella var. *ecrustacea* f. *macrocalyptra* Räsänen

Chaenotheca chlorella var. *obscura* (Nyl.) Vain.

Chaenotheca chlorella var. *phaeocephala* (Turner) Vain.

Calicium phaeocephalum var. *flavum* Ach. ex Nyl.

Calicium phaeocephalum var. *obscurum* Nyl.

On lignum and bark of various trees (*Quercus*, etc.).

S Sk-Öl Sm Bh Vg-Hls Hrj-Vb LuL

N Øf-Bu Te

F A-PK PeP Ks

Tibell 1978d, Tibell 1980a, Middelborg & Mattsson 1987, Thor & Arvidsson 1999, Tibell 1999a

Chaenotheca sphaerocephala Nád.

On old trunks of *Picea abies*.

S Dlr Ång Jmt LyL

N He-Bu

F Kn

Tibell 1999a, Holien 2001

Chaenotheca stemonea (Ach.) Müll.Arg.

Chaenotheca aeruginosa auct.

Chaenotheca trichialis subsp. *stemonea* (Ach.) Zwackh

On rain-sheltered surfaces, mainly on decorticated stumps of deciduous trees and conifers, sometimes on bark of deciduous trees very rarely on soil.

S Bl-LuL

N Ak-Te VA-Fi

F V-EH EP-PS KP Kn PeP Ks

Tibell 1978d, Tibell 1980a, Middelborg & Mattsson 1987, Tibell 1999a

Chaenotheca subroscida (Eitner) Zahlbr.

Chaenotheca chlorella var. *hispidula* f. *granulans* Vain.

On bark of *Picea* in shaded sites, rarely on *Betula*.

S Sm Dls-Nrk Vrm-LuL

N He-Bu Te ST-No

F V-EK EH -PK Kn-Ks SoL

Tibell 1978d, Tibell 1980a, Middelborg & Mattsson 1987, Tibell 1999a

Chaenotheca trichialis (Ach.) Th.Fr.

Chaenotheca aeruginosa (Turner ex Sm.) A.L.Sm.

Calicium cinereum auct.

Chaenotheca stemonea f. *ramosa* M.Laurila

Chaenotheca trichialis var. *caerulescens* f. *phaeopus* Vain.

Chaenotheca trichialis var. *ferruginella* Vain.

Chaenotheca trichialis var. *physoidea* Vain.

On bark and lignum of deciduous trees and conifers.

S Sk-TL

N Øf-Fi

F A-EnL

Tibell 1978d, Tibell 1980a, Middelborg & Mattsson 1987, Tibell 1999a

Chaenotheca xyloxena Nádv.

On lignum of deciduous trees and conifers.

S Sk Bl Sm Vg Ög Srm-Hls Ång-Nb LyL-TL

N Øf-Te Ro MR-Tr

F A-EK EH-EP PS Kn KiL InL

Tibell 1978d, Tibell 1980a, Middelborg & Mattsson 1987, Tibell 1999a

***Chaenothecopsis consociata (Nádv.) A.F.W.Schmidt**

Calicium consociatum Nádv.

On *Chaenotheca chrysocephala*.

S Bl Sm Bh-Ög Srm-Hls Hlj-LuL

N Øf-AA

F A V EK EH PK Kn OP Ks

Schmidt 1970, Tibell 1975, Øvstedal 1986, Tibell 1999a

+Chaenothecopsis debilis (Sm.) Tibell

Calicium debile Sm.

Chaenothecopsis elevata (Vain.) Tibell

Embolidium inaequatum Vain.

Calicium norvegicum Vain. ex Hav.

Embolidium violaceum Räsänen

On lignum (rarely bark) of deciduous trees.

S Sk Bl Gtl Vg-Hls Ång-LyL LuL TL

N Ak-Op Vf Te Ho NT Fi

F A-EH EP-PS KP Kn KiL-EnL

Tibell 1975, Tibell 1999a

***Chaenothecopsis epithallina Tibell**

On *Chaenotheca trichialis* (thallus, rarely stipes).

S Sm Ög Vrm Upl Dlr Hls Hlj-LuL

N He-Bu Te ST NT

F V U Ks

Tibell 1975, Tibell 1999a

+Chaenothecopsis fennica (Laurila) Tibell

Embolidium fennicum Laurila

On lignum of *Pinus*.

S Vrm Dlr Hls Ång Jmt-Nb LyL-LuL

N Ak-Bu Fi

F Ks

Tibell 1978a, Tibell 1978c, Tibell 1984a, Tibell 1999a

+Chaenothecopsis haematopus Tibell

On lignum of *Picea* and *Betula*.

S Vb LyL

N -

F V U

Anamorph: *Catenomyces* Constant. in Tibell & Constantinescu.

Tibell 1987a, Tibell & Constantinescu 1991, Tibell 1999a

***Chaenothecopsis hospitans (Th.Fr.) Tibell**

Chaenothecopsis exserta (Nyl.) Tibell

Strongyleuma exsertum (Nyl.) Vain.

Strongyleuma exsertum subsp. *albipes* Vain.

Strongyleuma exsertum subsp. *hemileucum* Vain.

Calicium hospitans Th.Fr.

Calicium paroicum subsp. *exsertum* Nyl.

Strongyleuma paroicum Vain.

On *Lecanora carpinea* and *Haematomma ochroleucum* (thallus).

S Bl Bh Ög Nrk Vrm Upl Dlr Hls

N Øf Ak Op Te

F A V St EH ES

Tibell 1984a, Tibell 1987a, Tibell & Ryman 1995, Tibell 1999a

+Chaenothecopsis marcineae Selva

On resin of *Picea abies*.

S -
N -
F KiL

McMullen 2017

+Chaenothecopsis montana Rikkinen

On exudate of conifers.

S Gtl UpI
N Ak Ho NT
F V U EH PH

Rikkinen 2003, Tuovila et al. 2011

+Chaenothecopsis nana Tibell

On lignum or bark of *Picea abies*, rarely deciduous trees.

S Srm Vrm UpI-Hls Hlj-LuL
N He-Bu Te ST-No
F V? KP Ks

Tibell 1979, Tibell 1981b, Tibell 1987a, Tibell 1999a

***Chaenothecopsis nigra Tibell**

Chaenothecopsis tasmanica, Scand. specimens

On *Chaenotheca* (thallus).

S Öl Bh Srm Dlr Hls Jmt Vb LyL
N He Op MR-NT
F V? U? EK EH

Tibell 1987a, Tibell 1999a, Holien 2001

***Chaenothecopsis ochroleuca (Körb.) Tibell**

Calicium ochroleucum Körb.

On *Loxospora elatina* (thallus).

S Hls (Ramsjö 1998 B. Andersson)
N -
F -

Tibell & Ryman 1995

***Chaenothecopsis pusilla (Ach.) A.F.W.Schmidt**

Calicium alboatrum Flörke

Calicium asikkalense Vain

Calicium floerkei Zahlbr.

Calicium italicum auct.

Embolidium italicum auct.

Calicium nigrum Schaer.

Chaenothecopsis parasitaster (Bagl. & Carestia) D.Hawksw.

Chaenothecopsis subpusilla (Vain.) Tibell

Calicium subpusillum Vain.

On free-living algae and on *Cladonia* spp. (phyllocladia), *Chaenotheca* and *Calicium* spp., or saprophytic on lignum.

S Bl-Sm Dls-Dlr Hls-TL

N Øf-AA Ho ST-Tr

F A-EH EP-Ks SoL-InL

Hawksworth 1978b, Øvstedal 1986, Tibell 1987a, Tibell 1987b, Tibell 1999a

***Chaenothecopsis pusiola (Ach.) Vain.**

Calicium lignicola Nád.v.

Chaenothecopsis lignicola (Nád.v.) A.F.W. Schmidt

Strongylopsis saeviensis Räsänen, p.p.

Saprophytic or on *Chaenotheca* spp.

S Gtl Sm Vg Vrm-Hls Ång-LuL

N Ak-Te SF-No

F V U St-ES PH-PK Kn PeP-SoL InL

Tibell 1975, Tibell 1984a, Tibell 1987a, Tibell 1987b, Tibell 1999a

+Chaenothecopsis rubescens Vain.

On bark of *Alnus*.

S -

N -

F EH (Hollola 1873 Vainio)

Tibell 1999a

***Chaenothecopsis savonica (Räsänen) Tibell**

Strongylopsis saeviensis Räsänen, p.p.

Mycocalicium savonicum Räsänen

On *Chaenotheca*, also on algae on lignum.

S Öl Sm Bh Vg Ög Vrm-Dlr Jmt ÅsL LyL LuL

N Ak-Bu Te SF ST-Tr

F V-EK EH PS InL

Anamorph: *Asterophoma* sp.

Tibell 1984a, Tibell 1987a, Tibell 1991, Tibell 1999a

* **Chaenothecopsis subparoica (Nyl.) Tibell**

On Haematomma ochroleucum v. porphyrium in vertical rocks.

S Sm Bh Vg Ög Upl Dlr Gst Hls ÅsL

N ST

F V St EH PK

Tibell & Ryman 1995, Tibell 1999a, Frisch et al. 2020a

* **Chaenothecopsis vainioana (Nádv.) Tibell**

Calicium albociliatum sensu Vain.

On bark or lignum of trees, associated with free-living or lichenised Trentepohlia.

S Bl-Hl Vg-Vrm Upl-Gst Ång Jmt ÅsL LyL LuL

N Ak-Op Vf Te SF ST NT

F A-U St EH

Tibell 1979, Tibell 1981b, Tibell 1999a

* **Chaenothecopsis viridialba (Kremp.) A.F.W.Schmidt**

Mycocalicium cinerascens (Nyl.) Vain.

Calicium parietinum var. *cinerascens* Nyl.

Calicium viridialbum Kremp.

On bark and lignum of Picea, sometimes on Chaenotheca chrysocephala.

S Vrm Upl Dlr Ång Jmt-LyL LuL

N He-Bu Te AA ST NT

F V EH PH-PK Kn PeP Ks

Tibell 1975, Tibell 1979, Tibell 1984b, Øvstedal 1986, Thor & Arvidsson 1999, Tibell 1999a

* **Chaenothecopsis viridireagens (Nádv.) A.F.W.Schmidt**

Calicium viridireagens Nádv.

On *Calicium* spp. or on free-living algae.

S Vg Srm Vrm-Ång Jmt-Nb LyL-LuL

N Ak-Op VF Ho ST-No

F V U St PeP

Tibell 1975, Tibell 1987a, Halonen 1990, Tibell 1999a

+ **Chaenothecopsis zebrina Rikkinen & Tuovila**

On resin of Picea abies.

S Gtl Upl

N -

F -

Tuovila et al. 2011

* **Chalara lobariae Etayo**

On Lobaria pulmonaria (thallus).

S -

N NT (Overhalla 1997 H. Holien)

F -

Etayo & Diederich 1996a, Holien 2001

Cheiromycina flabelliformis B.Sutton

On bark of trees and shrubs in damp sites.

S Vrm-Vb
N He Ro NT No
F Kn

Hawksworth & Poelt 1986, Sutton & Muhr 1986, Moberg 1987, Thor & Arvidsson 1999, Holien 2001

Cheiromycina petri D.Hawksw. & Poelt

On soft bark of Salix, sometimes on Betula or twigs of Picea abies.

S -
N No Fi
F -

Hawksworth & Poelt 1990

Chrysothrix caesia (Flot.) Ertz & Tehler

Arthonia caesia (Flot.) KÖrb.

Arthonia caesiolivens Nyl.

On deciduous trees (Prunus padus, Alnus).

S -
N -
F EH

Ertz & Tehler 2011

Chrysothrix candelaris (L.) J.R.Laundon

Lepraria candelaris (L.) Fr.

Lepraria flava (Schreb.) Sm.

On dry bark and lignum of deciduous trees and conifers.

S Sk-Ång
N Øf Ak Op Te VA-SF ST NT
F A-U St EH EP-PS

Laundon 1981, Tønsberg 1992b

Chrysothrix chlorina (Ach.) J.R.Laundon

Lepraria chlorina (Ach.) Ach.

On siliceous, overhanging rocks, rarely on Picea and Pinus.

S Sk-TL
N Ak Op-Fi
F A-ES PH-SoL InL

Laundon 1981, Karström & Thor 1991, Tønsberg 1992b

Chrysothrix chrysophthalma (P.James) P.James & J.R.Laundon

Micarea chrysophthalma P.James

On wood and bark of Picea abies.

S -
N Ho ST-No
F -

Tønsberg 1994b

Chrysothrix flavovirens Tønsberg

Chrysothrix chrysophthalma auct. p. p.

On Picea, Pinus and Quercus, etc.

S Sk Öl-Bh Vg Srm

N Øf Ro-MR

F -

James 1971, Laundon 1981, Tønsberg 1992b, Tønsberg 1994b, Tønsberg 1997

Circinaria caesiocinerea (Nyl. ex Malbr.) A.Nordin et al.

Lecanora amphibola (Ach.) Vain., nom. sed non planta

Aspicilia caesiocinerea (Nyl. ex Malbr.) Arnold

Lecanora caesiocinerea Nyl. ex Malbr.

Lecanora caesiocinerea var. *amphibola* (Ach.) Norrlin & Nyl.

Urceolaria cinerea var. *amphibola* Ach.

Aspicilia conglomerans (Nyl.) Kernst.

Lecanora conglomerans Nyl.

Lecanora gibbosa auct.

On siliceous rock.

S Sk-Nb LyL

N Ak Op Vf AA-SF ST No Tr

F A-PH PK-Kn PeP KiL-InL

Magnusson 1939a, Nordin et al. 2010

Circinaria calcarea (L.) A.Nordin et al.

Aspicilia calcarea (L.) Mudd

Lecanora calcarea (L.) Sommerf.

Lecanora calcarea var. *concreta* (Schaer.) Körb.

Pachyospora calcarea (L.) A.Massal.

Aspicilia lundensis (Fr.) Uloth

Lecanora lundensis (Fr.) Zahlbr.

On calcareous rocks.

S Sk-Upl Dlr Jmt

N Ak Op Bu Te Ho ST NT Tr Fi

F A-U EH EnL

Fries 1871

Circinaria contorta (Hoffm.) A.Nordin et al.

Lecanora calcarea var. *contorta* (Hoffm.) Hepp
Lecanora calcarea var. *hoffmannii* (Ach.) Sommerf.
Aspicilia contorta (Hoffm.) Kremp.
Aspicilia contorta (Hoffm.) Kremp. subsp. *contorta*
Circinaria contorta (Hoffm.) A.Nordin et al. subsp. *contorta*
Lecanora contorta (Hoffm.) J.Steiner
Aspicilia hoffmannii (Ach.) Flagey
Lecanora hoffmannii (Ach.) Müll.Arg.

On calcareous rocks.

S Sk ÖI Gtl Bh-Srm Dlr Gst
N Ak-Bu Ro Ho NT-Tr
F V U Ks

Circinaria cupreogrisea (Th.Fr.) A.Nordin et al.

Aspicilia cupreogrisea (Th.Fr.) Hue
Lecanora cupreogrisea Th.Fr.

On sun-exposed siliceous rock.

S Sk-Upl LyL
N No
F A V

Fries 1871, Magnusson 1939a, Degelius 1982, Magnusson 1930b

Circinaria gibbosa (Ach.) A.Nordin et al.

Aspicilia elfvingii Vain. & Räsänen ex. Räsänen
Aspicilia gibbosa (Ach.) Körb.
Lecanora gibbosa (Ach.) Nyl.
Urceolaria gibbosa Ach.
Lecanora gibbosula H.Magn.

On siliceous rocks in humid or open places.

S Sk-Upl Hls
N Ak-Bu AA-SF ST No-Fi
F V-EH PH-KP PeP Ks SoL EnL

The name *Lecanora gibbosa* was earlier often used for *Aspicilia caesiocinerea*.
Magnusson 1939a

Circinaria hoffmanniana (S.Ekman & Fröberg ex R.Sant) A.Nordin

Aspicilia contorta subsp. *hoffmanniana* Ekman & Fröberg ex R.Sant.
Aspicilia hoffmanniana (S.Ekman & Fröberg) Cl.Roux & M.Bertrand
Aspicilia hoffmannii auct.

On calcareous rocks.

S Sm ÖI Gtl Hl Vg Ög Nrk Vsm Upl Hrj (LuL?)
N Ak
F V ES

To *Circinaria* but not yet combined.

Fries 1871, Ekman & Fröberg 1988, Fröberg 1989

Circinaria leproscens (Sandst.) A.Nordin et al.

Aspicilia leproscens (Sandst.) Hav.

Lecanora leproscens Sandst.

On seashore rocks manured by birds.

S Bh-Sk-Srm Vrm

N Ho SF No

F A-U St PeP

Degelius 1939a

Cladonia acuminata (Ach.) Norrl.

Cladonia acuminata subsp. *foliata* (Arnold) Vain.

Cladonia acuminata var. *norrlinii* Lyng

Cladonia foliata (Arnold) Kernst. Torre & Sarnth.

Cladonia norrlinii Vain.

On usually calcareous soil.

S Ög-TL

N Øf-Bu Te AA Ho ST-Fi

F A-U St-SoL InL

Ahti & Stenroos 2013

Cladonia albonigra Brodo & Ahti

On mossy or humus-covered rocks.

S TL

N Ro SF-Fi

F -

Ahti & Stenroos 2013, Westberg et al. 2015a

Cladonia alpina (Asahina) Yoshim.

On soil rich in humus and on lignum (*Picea*).

S -

N Ro-NT

F -

Tønberg 1978, Botnen & Tønberg 1988, Tønberg et al. 1996, Jørgensen 1996, Ahti & Stenroos 2013

Cladonia amaurocraea (Flörke) Schaer.

Cladonia dstricta (Nyl.) Fisch.-Benz.

On rocks and boulders in alpine heaths and in timberline forest floors.

S Bh-TL

N Øf-AA Ro-Fi

F A-InL

Botnen & Tønberg 1988, Litterski & Ahti 2004, Ahti & Stenroos 2013

Cladonia arbuscula (Wallr.) Flot.

Cladonia arbuscula (Wallr.) Hale & W.L.Culb.

Cladonia arbuscula (Wallr.) Flot. subsp. *arbuscula*

Cladonia arbuscula (Wallr.) Flot. subsp. *squarrosa* (Wallr.) Ruoss

Cladonia arbuscula auct. plur.

Cladonia squarrosa (Wallr.) Flot.

Cladonia sylvatica auct.

In habitats similar to ssp. *mitis* but in more mesic and moist places (like bogs) and less abundant in the north and mountains.

S Sk-TL

N Øf-Fi

F A-InL

Ahti 1961, Ruoss & Ahti 1985, Piercey-Normore et al. 2010, Ahti & Stenroos 2013

Cladonia asahinae J.W.Thomson

On soil rich in humus, on sand or on lignum.

S Vg

N Øf Ak AA-Ho MR-Fi

F A V Kn

Distribution poorly known, probably mainly coastal.

Holien & Tønsberg 1985, Ahti & Stenroos 2013

Cladonia bacilliformis (Nyl.) Glück

On wood and bark of coniferous trees, less on humus.

S Bl-Sm Bh-TL

N Øf-AA ST No-Fi (in the south scarce)

F A-InL

Ahti 1980a, Timdal 1989, Litterski & Ahti 2004, Ahti & Stenroos 2013

Cladonia bellidiflora (Ach.) Schaer.

On rocks, in open timberline forests or in open mountain heaths.

S Sk Bl Sm-TL

N Øf-Fi

F A-InL

Litterski & Ahti 2004, Ahti & Stenroos 2013

Cladonia borealis S.Stenroos

Cladonia coccifera sensu Asahina et al.

On the ground, especially on rock outcrops and mineral soil, in the north on forest floor.

S Sk-TL

N Øf-Fi

F A-InL

Stenroos 1989a, Ihlen & Tønsberg 1994, Ahti & Stenroos 2013

Cladonia botrytes (K.G.Hagen) Willd.

On old wood (often on the cut surface of stumps), less on forest humus.

S BI-TL
N Øf-VA MR-Fi
F A-InL

Litterski 1992, Litterski & Ahti 2004, Ahti & Stenroos 2013

Cladonia brevis (Sandst.) Sandst.

Records based on misidentifications? To *Cladonia polycarpoides*?
Kleiven 1959

Cladonia caespiticia (Pers.) Flörke

On bases of tree trunks, on stumps or on soil banks.

S Sk-Upl
N Øf Ak Bu-Tr
F V U EH

Østhagen 1976, Litterski & Ahti 2004, Ahti & Stenroos 2013

Cladonia callosa Delise ex Harm.

Cladonia fragilissima Østh. & P.James

On mossy shaded stones, on vertical rocks, and on peat.

S -
N Øf Ho-MR No
F -

Østhagen & James 1977, Timdal 1982, Tønsberg et al. 1996, Jørgensen 1996, Litterski & Ahti 2004, Ahti & Stenroos 2013

Cladonia cariosa (Ach.) Spreng.

On open, sandy, calcareous or other not too acidic soil, often road banks or burnt forest.

S Sk-LyL TL
N Øf-Bu Te AA SF-Fi
F A-KiL EnL InL

Ahti & Stenroos 2013

Cladonia carneola (Fr.) Fr.

On soil rich in humus and decaying wood, in forests, most abundant in the north.

S BI-TL
N Øf-Bu Te VA-Fi
F A-InL

Stenroos 1989a, Ahti & Stenroos 2013

Cladonia cenotea (Ach.) Schaer.

On soil rich in humus, especially in bogs, on decaying wood, stumps and tree bases, rarely forest floor.

S Sk-TL
N Øf-Bu Te-VA Ho-Fi
F A-ES EP-InL

Ahti & Stenroos 2013

Cladonia cervicornis (Ach.) Flot.

Cladonia verticillata var. *cervicornis* (Ach.) Flörke

On acidic and calcareous soil and on rocks in open localities.

S Sk-Dlr Mpd Ång

N Øf-Fi

F A-EK EH ES PH Kn KiL-InL

van Herk & Aptroot 2003, Ahti & Stenroos 2013

Cladonia chlorophaea (Flörke ex Sommerf.) Spreng.

Cladonia pyxidata var. *chlorophaea* (Flörke ex Sommerf.) Flörke

On plant debris, slightly acidic soil, decaying wood, tree bases and trunks, and mossy rocks.

S Sk-TL

N Øf-Fi

F A-InL

The members of the *Cladonia chlorophaea* group are here tentatively recognized as distinct species. They still need a thorough taxonomic and nomenclatural revision.

Holien & Tønberg 1985, Oksanen 1987, Orange 1992, DePriest 1993, Ahti & Stenroos 2013

Cladonia ciliata Stirt.

Cladonia ciliata (Stirt.) Trass

Cladonia ciliata var. *tenuis* (Flörke) Ahti & M.J.Lai

Cladonia ciliata Stirt. f. *ciliata*

Cladonia ciliata Stirt. f. *flavicans* (Flörke) Ahti & DePriest

Cladonia ciliata var. *tenuis* (Flörke) Ahti

Cladonia leucophaea (Abbayes) Mong.

Cladonia leucophaea des Abb.

Cladonia tenuis (Flörke) B.de Lesd.

Cladonia tenuis (Flörke) Harm.

Cladonia tenuis var. *leucophaea* (Abbayes) Ahti

In bogs or on open rocky ground.

S Sk-Vrm Upl Gst

N Øf Ak Bu-Fi

F A-U

Sometimes two forms (f. *ciliata* and f. *flavicans*) are recognized.

Ahti 1961, Ahti 1961, Ahti 1962b, Ahti 1978, Ahti 1984, Litterski & Ahti 2004, Ahti & Stenroos 2013

Cladonia coccifera (L.) Willd.

Cladonia coccifera var. *stematina* (Ach.) Vain.

On the ground, often among bryophytes, on rocks, in open or semi-open habitats.

S Sk-TL

N Øf-Fi

F A-InL

Most early records belong to *Cladonia borealis*.

Stenroos 1989a, Ihlen & Tønberg 1994, Ahti & Stenroos 2013

Cladonia coniocraea (Flörke) Spreng.

Cladonia apolepta (Ach.) H.M.M.Hansen & M.Lund

Cladonia fimbriata var. *coniocraea* (Flörke) Nyl.

On decaying wood, tree bases or on soil rich in humus.

S Sk-TL

N Øf-Fi

F A-InL

The limit against *Cladonia ochrochlora* not fully clarified.

Ahti & Stenroos 2013

Cladonia conista (Nyl.) Robbins

Cladonia humilis var. *bourgeanica* A.W. Archer

On soil rich in humus in open habitats.

S LuL

N Øf-He Bu Vf ST Fi

F V-EK EH ES PS Ks KiL EnL

Status uncertain, often treated as a chemotype of *Cladonia humilis*.

Leuckert & Poelt 1970, Holien & Tønsberg 1985, Ahti & Stenroos 2013

Cladonia cornuta (L.) Hoffm.

Ahti & Stenroos 2013

Cladonia cornuta (L.) Hoffm. subsp. cornuta

On humus and decaying wood in coniferous woods.

S Sk-TL

N Øf-Fi

F A-InL

Ahti & Stenroos 2013

Cladonia cornuta (L.) Hoffm. subsp. groenlandica (E.Dahl) Ahti

Cladonia cornuta f. *subdilatata* auct. scand., non Asahina

Cladonia groenlandica (E.Dahl) Trass

On soil and wood in alpine and coastal habitats.

S Mpd Hrj Jmt

N Ro-Tr

F EP Kn Ks-InL

Ahti 1980b, Ahti & Stenroos 2013

Cladonia crispata (Ach.) Flot.

Ahti & Stenroos 2013

Cladonia crispata (Ach.) Flot. var. cetrariiformis (Delise) Vain

Cladonia crispata var. *gracilescens* (Rabenh.) Vain.

On acidic ground in forests or open habitats, especially bogs in alpine areas.

S Sm Bh Vrm Dlr-ÅsL PL TL

N Ak Op Bu Te Ro-Fi

F A V EH EP SoL-InL

Ahti & Stenroos 2013

Cladonia crispata (Ach.) Flot. var. crispata

Cladonia crispata var. *dilacerata* (Schaer.) Malbr.

Cladonia crispata var. *infundibulifera* (Schaer.) Vain.

On acidic ground and wood in forests or open habitats.

S Sk-TL

N Øf-Fi

F A-InL

Ahti & Stenroos 2013

Cladonia cryptochlorophaea Asahina

On soil rich in humus, on peat, etc.

S Sk Hl Bh Vg

N Øf-Te VA-Ho MR-Fi

F V St EH PH PS Kn PeP-InL

Possibly a chemotype of *Cladonia grayi*.

Culberson & Kristinsson 1969, Leuckert et al. 1971, Egan 1985, Orange 1992, Ahti & Stenroos 2013

Cladonia cyanipes (Sommerf.) Nyl.

On mossy rocks, in open heaths, forest glades, bogs, etc.

S Sk Gtl-TL

N Øf-Bu Te-Fi

F A-InL

Ahti & Stenroos 2013

Cladonia cyathomorpha Stirt. ex Walt. Watson

On mossy rocks and on basal parts of trees in rich, deciduous forests.

S Sk Hl Bh Dls Vg

N AA-Fi

F -

Jølle 1977b, Tønsberg & Øvstedal 1982, Orange 1992, Ahti & Stenroos 2013

Cladonia dahliana Kristinsson

Not in F, N or S. Reports from N probably refer to *Cladonia symphyrcarpia*.

Cladonia decorticata (Flörke) Spreng.

On soil and sand, mainly in open ground.

S Srm Vrm Upl-Ång Jmt Vb ÅsL LyL LuL TL

N Ak Op Bu AA SF ST No Tr

F A-U EH ES PH PK Kn OP Ks-InL

Ahti & Stenroos 2013

Cladonia deformis (L.) Hoffm.

On soil rich in humus, infrequent on decaying wood.

S Sk-TL

N Øf-Fi

F A-InL

Østhagen 1971, Ahti & Stenroos 2013

Cladonia digitata (L.) Hoffm.

On bases of tree trunks, and decaying wood, such as stumps, rarely on soil rich in humus.

S Sk-TL
N Øf-Fi
F A-InL

Litterski & Ahti 2004, Ahti & Stenroos 2013

Cladonia diversa Asperges ex S.Stenroos

On seepages on rock faces or on the ground, especially on sea shores.

S Öl- Sm Bh-Vg Vrm-Upl Mpd
N Øf Ak Bu-No
F A-U St-ES Ks

Stenroos 1989a, Ahti & Stenroos 2013

Cladonia ecmocyna Leight.

On snowbeds, among boulders, in alpine areas, also in subalpine *Betula* woodlands.

S Dlr-TL
N He-Bu Te AA Ro-Fi
F Ks-InL

Jahns et al. 1969, Ahti 1980b, Ahti & Stenroos 2013

Cladonia fimbriata (L.) Fr.

Cladonia major (K.G.Hagen) Sandst.

On rotten wood and trees and open soil on roadsides, in meadows.

S Sk-TL
N Øf-Fi
F A-InL

Ahti & Stenroos 2013

Cladonia firma (Nyl.) Nyl.

Not in F, N or S. Report from N Ro based on misidentification.

Cladonia floerkeana (Fr.) Flörke

Cladonia macilenta subsp. *floerkeana* (Fr.) V.Wirth

On sand, peat or exposed rocks, rarely on decaying wood.

S Sk-Vb LyL TL
N Øf-Fi
F A-ES EP-PS KP-PeP InL

Christensen 1987, Ahti & Stenroos 2013

Cladonia foliacea (Huds.) Willd.

Cladonia alpicornis (Lightf.) Fr.

Cladonia alpicornis var. *damicornis* (Ach.) Th.Fr.

Cladonia convoluta (Lam.) Anders

Cladonia endiviifolia (Dicks.) Fr.

Cladonia foliacea subsp. *convoluta* (Lam.) Suza

Cladonia foliacea var. *convoluta* (Lam.) Vain.

On sun-exposed places, especially on calcareous soil, sometimes on acidic habitats.

S Sk-Vrm Upl

N Øf Ak Op-SF No

F A-U

Ahti & Stenroos 2013

Cladonia furcata (Huds.) Schrad.

On the ground or on rock or wood in forests or in open ground.

S Sk-TL

N Øf-Fi

F A-InL

Ahti & Stenroos 2013

Cladonia galindezii Øvstedal

On calcareous ground.

S TL

N Fi

F -

Hansen & Ahti 2011, Ahti & Stenroos 2013

Cladonia glauca Flörke

On acidic, open ground, especially on sandy soil.

S Sk-Dlr

N Øf He Op VA-Ho

F A-U EH

Tønberg & Høiland 1978, Tønberg et al. 1996, Ahti & Stenroos 2013

Cladonia gracilis (L.) Willd.

Ahti & Stenroos 2013

Cladonia gracilis (L.) Willd. subsp. elongata (Wulfen) Vain.

Cladonia ecmocyna f. *nigripes* Nyl.

Cladonia elongata (Wulfen) Hoffm.

Cladonia gracilis var. *nigripes* (Nyl.) Ahti

Cladonia nigripes (Nyl.) Trass

In heaths, bogs, etc., in alpine and subalpine communities, etc.

S Dlr Hls Hrj -TL

N Ak He Op Te Ho-Fi (not in the lowland)

F EH EP PH-InL

Ahti & Stenroos 2013

Cladonia gracilis (L.) Willd. subsp. gracilis

Cladonia gracilis var. *chordalis* (Flörke) Schaer.

On rock outcrop, on soil in heaths, etc.

S Sk-Gst Mpd-Vb ÅsL TL (not in the high mountains)

N Ak Bu Ro-No

F A-SoL

Ahti & Stenroos 2013

Cladonia gracilis (L.) Willd. subsp. turbinata (Ach.) Ahti

Cladonia gracilis var. *dilatata* auct.

On soil and rotten wood in forests, etc.

S Sk Gtl-Ång Jmt-TL

N Øf-Bu SF ST-Fi (absent in coastal regions)

F A-InL

Apparent intermediates of the subspecies can be found in areas where their ranges overlap.

Ahti 1980b, Stenroos & Ahti 1990, Ahti & Stenroos 2013

Cladonia grayi G.Merr. ex Sandst.

On naked peat in bogs, on humus in conifer forests, etc.

S Sk-Hls Jmt Vb ÅsL

N Øf-Te VA-Ho MR-Fi

F A-Ks SoL-InL

If treated in a wide sense, *Cladonia grayi* could include *Cladonia asahinae*, *C. cryptochlorophaea*, *C. merochlorophaea* and *C. novochlorophaea*.

Culberson & Kristinsson 1969, Leuckert et al. 1971, Orange 1992, Ahti & Stenroos 2013

Cladonia humilis (With.) J.R.Laundon

Cladonia conistea sensu Asahina

Cladonia conoidea Ahti

On soil in open habitats (sand-dunes, etc.).

S Sk Bh Vg

N Øf VA-Ho

F V-EK EH ES PS PK Ks KiL EnL

See also *Cladonia conista*.

Leuckert & Poelt 1970, Ahti 1980a, Tønsberg 1980, Holien & Tønsberg 1985, Arup & Ekman 1991b, Orange 1992, Tønsberg et al. 1996, Ahti & Stenroos 2013

Cladonia imbricarica Kristinsson

On sand and gravel on road cuts or river banks.

S TL

N He Op

F St ES

Kristinsson 1974, Gjerlaug 1989, Orange 1992, Svensson & Palice 2009, Ahti & Stenroos 2013

Cladonia incrassata Flörke

On peat, especially on vertical walls in peat cuts, but elsewhere primary habitat is rotten wood.

S Sk Bl-Nrk Vrm Vsm

N Øf

F U

Almborn 1948, Kuusinen et al. 1989, Tønsberg 1995, Arup et al. 1997, Thor & Arvidsson 1999, Litterski & Ahti 2004, Ahti & Stenroos 2013

Cladonia krogiana Løfall & Timdal

On open sites at the border of forests.

S -

N Øf Ak Op Bu Te

F -

Løfall & Timdal 2002, Ahti & Stenroos 2013

Cladonia libifera Savicz

On humus rich soil.

S Jmt TL

N -

F -

Ahti & Stenroos 2013

Cladonia luteoalba Wheldon & A.Wilson

In commensalistic symbiosis with *Cladonia coccifera*, *Cladonia borealis* and *Cladonia metacorallifera*.

S Srm Vrm Dlr Ång Jmt ÅsL TL

N Øf-Bu Te VA-SF ST-Fi

F A V OP-InL

Dahl & Krog 1970, Østhagen 1972, Østhagen 1976, Stenroos 1990, Ahti & Stenroos 2013

Cladonia macilenta Hoffm.

Cladonia bacillaris Genth

On soil rich in humus, on decaying wood, etc.

S Sk-TL

N Øf-Fi

F A-InL

Two major chemotypes.

Christensen 1987, Ahti & Stenroos 2013

Cladonia macroceras (Delise) Hav.

Cladonia elongata auct. p.p.

Alpine heaths, in the south on limestone pavement.

S ÖI Gtl Srm Upl Hvj Jmt Nb ÅsL-PL TL

N Op Ho ST-Fi

F A V Ks KiL EnL InL

Material from Norway in need of revision.

Øvstedal 1986, Wedin 1987, Ahti & Stenroos 2013

Cladonia macrophylla (Schaer.) Stenh.

Cladonia alpicola (Flot.) Vain.

On soil and sand in open ground, especially in mountains.

S Sk-TL

N Øf-Fi

F A-InL

Litterski & Ahti 2004, Ahti & Stenroos 2013

Cladonia macrophyllodes Nyl.

On acidic, open ground in alpine areas.

S Dlr-TL

N Øf-Bu Te-Fi

F Ks SoL-InL

Lynge 1921b, Ahti & Stenroos 2013

Cladonia magyarica Vain.

Not in F, N or S. Incorrectly reported from S.

Cladonia maxima (Asahina) Ahti

Cladonia ecmocyna auct. p.p.

Cladonia elongata auct. p.p.

Cladonia gracilis var. *elongata* f. *maxima* Asahina

Mainly in shaded and boggy woods but also in not dry open heaths.

S Dlr Jmt Nb ÅsL-TL

N He Op Te SF-Fi

F PS Kn-InL

Litterski & Ahti 2004, Ahti & Stenroos 2013

Cladonia merochlorophaea Asahina

On humus in coniferous forests and on rotten wood.

S Sk Öl Sm Bh Vg Nrk-Dlr Mpd Jmt

N Øf-Fi

F A-InL

Arup & Ekman 1991b, Orange 1992, Ahti & Stenroos 2013

Cladonia mitis Sandst.

Cladonia arbuscula (Wallr.) Flot. subsp. *mitis* (Sandst.) Ruoss

Cladonia mitis (Sandst.) Mong.

In sunny places like alpine heaths, sand dunes, open rocks and in open woods, most abundant in the north and mountains.

S Sk-TL

N Øf-Te VA-Fi

F A-InL

Ahti 1961, Ruoss 1987b, Ruoss 1987a, Ahti & Stenroos 2013

Cladonia norvegica Tønsberg & Holien

On decaying bark and wood of *Picea abies* (rarely *Pinus* or *Betula*).

S Sm Bh Vrm Vsm Upl Dlr Gst
N Øf-Bu Te AA Ho-No
F V U St-ES PH PS Kn-Ks

Tønsberg & Holien 1984, Muhr 1987a, Timdal 1989, Kuusinen et al. 1989, Ahti & Stenroos 2013

Cladonia novochlorophaea (Sipman) Brodo & Ahti

Cladonia merochlorophaea var. *novochlorophaea* Sipman

On humus and peat, especially on open, coastal rock outcrops.

S Sk Bh Vg LuL TL
N VA-NT Tr
F A-ES PH EP PK-OP Ks InL

Culberson & Kristinsson 1969, Leuckert et al. 1971, Nourish & Oliver 1976, Holien & Tønsberg 1985, Arup & Ekman 1991b, Ahti & Stenroos 2013

Cladonia ochrochlora Flörke

Cladonia fimbriata var. *ochrochlora* (Flörke) Schaer.

On decaying wood, on stumps, and on mossy, shaded rock faces.

S Sk? Gtl Sm Bh-Vg Nrk-Hls Hrj Jmt Vb-LyL LuL
N Øf-Fi
F A-ES PH-Ks InL

Uncertain whether distinguishable from *Cladonia coniocraea*.

Ahti & Stenroos 2013

Cladonia parasitica (Hoffm.) Hoffm.

Cladonia delicata (Ehrh. ex Ach.) Flörke

On decaying logs and stumps of *Quercus* and *Pinus*.

S Sk-LuL
N Øf-AA Ro Ho ST-Fi
F U St-ES EP-PK KP Kn-InL

Tønsberg & Øvstedal 1982, Arup et al. 1997, Thor & Arvidsson 1999, Ahti & Stenroos 2013

Cladonia peziziformis (With.) J.R.Laundon

Cladonia capitata (Michx.) Spreng.

Cladonia leptophylla (Ach.) Flörke

On naked soil rich in humus in *Calluna* heath.

S Hl Vg
N Ho
F -

Culberson 1969, Laundon 1984a, Tønsberg & Øvstedal 1995, Thor & Arvidsson 1999, Ahti & Stenroos 2013

Cladonia phyllophora Hoffm.

Cladonia degenerans (Flörke) Spreng.

Mainly on rock outcrops and bare mineral soil.

S Sk-TL
N Øf-Fi
F A-InL

Ahti & Stenroos 2013

Cladonia pleurota (Flörke) Schaer.

Cladonia coccifera subsp. *pleurota*

Cladonia coccifera var. *pleurota* (Flörke) Schaer.

On rotten wood, forest soil and rocks, in rather open places.

S Sk-TL

N Øf-Fi

F A-InL

Stenroos 1989a, Ahti & Stenroos 2013

Cladonia pocillum (Ach.) Grognot

Cladonia pyxidata subsp. *pocillum* (Ach.) Fink

Cladonia pyxidata var. *pocillum* (Ach.) Schaer.

On calcareous ground and rock, usually in open places.

S Sk-TL

N Øf-Fi

F A-ES PH-Ks SoL-InL

Ahti & Stenroos 2013

Cladonia polycarpoides Nyl.

Cladonia subcariosa auct.

On soil rich in sand or humus, in open places.

S Öl Bh Dls Vg Srm Vrm

N Øf-He Vf-AA Ro No

F A V

Recently also treated as a chemotype of *Cladonia subcariosa* Nyl.

Culberson 1969, Nordnes 1982b, Ingelög 1994, Carlin & Owe-Larsson 1994, Tønsberg et al. 1996, Thor & Arvidsson 1999, Ahti & Stenroos 2013

Cladonia polydactyla (Flörke) Spreng.

Cladonia flabelliformis Vain.

On the bases of tree-trunks, on decaying wood or on soil rich in humus.

S Sk-Vsm

N Øf Bu Vf VA-No

F A

Litterski & Ahti 2004, Ahti & Stenroos 2013

Cladonia portentosa (Dufour) Coem.

Cladonia condensata (Aigret) Zahlbr.

Cladina impexa B.de Lesd.

Cladonia impexa Harm.

Cladonia laxiuscula auct.

Cladina portentosa (Dufour) Follmann

Cladonia spumosa (Flörke) Schade

On more or less acidic ground in sun-exposed or shaded localities, especially on coastal rocks.

S Sk-Upl

N Øf Ak Bu-No

F A-U

Ahti 1961, Ahti 1978, Ahti 1980a, Ahti 1984, Ahti & Stenroos 2013

Cladonia pulvinata (Sandst.) van Herk & Aptroot

Cladonia rappii, quoad specim. europ.

Among bryophytes on rocks, and coastal heaths.

S Bh

N Øf Ak Bu AA-Ho No

F V St

Carlin & Owe-Larsson 1994, Ahti & Stenroos 2013

Cladonia pyxidata (L.) Hoffm.

Cladonia monomorpha Aptroot et al.

Cladonia neglecta auct.

On mineral soil preferably in open places, rarely on decaying wood, etc.

S Sk-TL

N Øf-Fi

F A-InL

If *Cladonia monomorpha* is accepted, much of Nordic *Cladonia pyxidata* is referable to that species.

Ahti & Stenroos 2013

Cladonia ramulosa (With.) J.R.Laundon

Cladonia anomaea Ahti & P.James

Cladonia pityrea (Flörke) Fr.

On soil and decaying wood.

S Sk-Ög Srm Vrm Upl

N Øf Ak Vf-No

F A V U

Laundon 1984a, Ahti & Stenroos 2013

Cladonia rangiferina (L.) F.H.Wigg.

Cladina conspicua Ahti

Cladonia conspicua (Ahti) Ahti

Cladina rangiferina (L.) Nyl.

In open forests on acidic soil, in tundra and on open places.

S Sk-TL

N Øf-Fi

F A-InL

Ahti 1961, Ahti 1984, Ahti & Stenroos 2013

Cladonia rangiformis Hoffm.

On open ground, mainly on seashores but also on calcareous soil inland.

S Sk-Ög Srm Vrm Upl

N Øf Ak Op-No

F A-U St

Wedin 1987, Litterski & Ahti 2004, Ahti & Stenroos 2013

Cladonia rei Schaer.

Cladonia fimbriata var. *nemoxyna* (Ach.) Coem.

Cladonia nemoxyna (Ach.) Arnold

On mineral soil on road banks and other anthropogenous habitats, also on calcareous soil rich in humus.

S Sk-Dlr ÅsL TL

N Øf Ak Op-AA SF No

F A-ES EP-KP OP-Ks InL

Østhagen 1975, Gjerlaug 1987, Ahti & Stenroos 2013

Cladonia scabriuscula (Delise) Nyl.

Cladonia furcata var. *scabriuscula* (Delise) Coem.

Cladonia surrecta (Flörke) Sandst.

Among bryophytes on steep rocks, between boulders, etc. in damp forests, open places, etc. (not in alpine areas).

S Sk Öl-Vrm Upl Gst TL

N Øf AK Vf AA-SF ST-No

F A-U St

Østhagen 1976, Ahti & Stenroos 2013

Cladonia squamosa Hoffm.

Cladonia squamosa var. *allosquamosa* Hennipman

Cladonia subsquamosa (Leight.) Cromb.

In bogs, mossy rocks and soil, especially in wet or shaded localities, less frequent in the alpine zone.

S Sk-TL

N Øf-Fi

F A-InL

Ahti & Stenroos 2013

Cladonia stellaris (Opiz) Pouzar & Vězda

Cladina alpestris alpestris (L.) Nyl.

Cladonia alpestris (L.) Rabenh.

Lichen rangiferinus var. *alpestris* L.

Cladina stellaris (Opiz) Brodo

In heaths, bogs, open more or less dry forests, etc., less common in the southern provinces.

S Sk-TL

N Øf-Fi

F A-InL

Ahti 1961, Litterski & Ahti 2004, Ahti & Stenroos 2013

Cladonia straminea (Sommerf.) Flörke

Cladonia metacorallifera Asahina

Cladonia metacorallifera var. *reagens* Asahina

On acidic rocks with a thin humus layer, especially on mossy rock faces.

S Gtl Bh Vrm-Vsm Dlr Ång Jmt ÅsL LyL LuL TL

N Øf-Fi

F V-EP Kn OP Ks KiL EnL InL

Østhagen 1976, Ahti 1978, Stenroos 1989b, Wirth 1990, Timdal & Tønsberg 2012, Ahti & Stenroos 2013

Cladonia strepsilis (Ach.) Grognot

On acidic rocks and soil.

S Sk Bl Sm-Gst Ång ÅsL LyL

N Øf-Fi

F A-PH

Litterski & Ahti 2004, Ahti & Stenroos 2013

Cladonia stricta (Nyl.) Nyl.

Cladonia cerasphora Vain.

Cladonia lepidota var. *stricta* (Nyl.) Du Rietz

On wet, acidic soil, especially in alpine and subalpine areas.

S Ång Htj-TL

N ST No-Fi

F PeP SoL-InL

According to Ahti (1998) most of the Nordic material under *Cladonia stricta* belongs to *Cladonia trassii* or *C. uliginosa*.

Ahti 1978, Ahti 1998, Ahti & Stenroos 2013

Cladonia stygia (Fr.) Ruoss

Cladonia rangiferina f. *stygia* Fr.

Cladina stygia (Fr.) Ahti

In bogs, open forests, and rock outcrops, especially at high altitudes and in the north.

S Sm Bh-TL

N Øf-Fi

F A-InL

Ahti 1984, Ahti & Hyvönen 1985, Elvebakk & Bjerke 2006, Ahti & Stenroos 2013

Cladonia subcervicornis (Vain.) Kernst.

On acidic rocks and soil in sun-exposed localities, etc., mainly in coastal areas.

S Sk Sm-Ög Srm Vrm Upl

N Øf Ak Bu-Tr

F A V

Litterski & Ahti 2004, Ahti & Stenroos 2013

Cladonia subfurcata (Nyl.) Arnold

Cladonia delessertii Vain.

In bogs, on acidic soil, mossy rocks, between boulders, especially at high altitudes and in the north.

S Sm Bh-TL

N Øf-Bu Te VA-Fi

F A-U St-InL

Ahti 1967, Ahti & Stenroos 2013

Cladonia subrangiformis Sandst.

Cladonia furcata subsp. *subrangiformis* (Sandst.) Abbayes

On open calcareous ground.

S ÖI Gtl Vg Srm Upl

N Øf Te-Ro

F V

Wedin 1987, Tønsberg et al. 1996, Ahti & Stenroos 2013

Cladonia subulata (L.) Weber ex F.H.Wigg.

Cladonia cornutoradiata (Leight.) Sandst.

Cladonia fimbriata var. *cornutoradiata* (Leight.) Vain.

On open, acidic mineral soil, especially on roadsides.

S Sk-TL

N Øf-Fi

F A-InL

Ahti & Stenroos 2013

Cladonia sulphurina (Michx.) Fr.

Cladonia deformis var. *gonecha* (Ach.) Arnold

Cladonia gonecha (Ach.) Asahina

On soil rich in humus, (especially peat), common on decaying wood.

S Sk-TL

N Øf-Fi

F A-InL

Østhagen 1971, Ahti 1978, Ahti & Stenroos 2013

Cladonia symphycarpa (Flörke) Fr.

Cladonia cariosa var. *corticata* Vain.

Cladonia hungarica (Vain.) Szatala

Cladonia symphycarpa auct.

On calcareous soil, usually in open places.

S Sk ÖI Gtl Vg-Dlr Hrj Jmt ÅsL-TL

N Øf-AA Ho-Fi

F A-EK ES PS PK Kn-InL

Ahti & Stenroos 2013

Cladonia trassii Ahti

Cladonia stricta auct. plur.

Primarily in late snowbeds above the timberline, also in mountain woodlands.

S Hrj Jmt LuL TL

N Ak-Bu Te-Fi

F Ks SoL EnL InL

Ahti 1998, Ahti & Stenroos 2013

Cladonia turgida Hoffm.

On soil in mesic forests, on seepages on rocks, and (in the north) in alluvial riverine woodlands.

S Sk-TL

N Øf-Fi

F A-InL

Litterski & Ahti 2004, Ahti & Stenroos 2013

Cladonia uliginosa (Ahti) Ahti

Cladonia gracilescens auct.

Cladonia lepidota var. *gracilescens* auct.

Cladonia stricta var. *uliginosa* Ahti

On wet, acidic soil in alpine and northern boreal areas.

S Htj Jmt Nb ÅsL-TL

N Ak-Op Te Ro-Fi

F EH Kn PeP-InL

Piin & Lensment 1998, Ahti & Stenroos 2013

Cladonia umbricola Tønsberg & Ahti

Cladonia polydactyla var. *umbricola* (Tønsberg & Ahti) Coppins in Purvis & James

Usually in oceanic *Picea* forests (especially in ravines) on decaying bark and wood.

S -

N Ho-No

F -

Tønsberg & Ahti 1980, Jørgensen 1996, Jørgensen 1996, Ahti & Stenroos 2013

Cladonia uncialis (L.) Weber ex F.H.Wigg.

Ahti & Stenroos 2013

Cladonia uncialis (L.) Weber ex F.H.Wigg. subsp. biuncialis (Hoffm.) M.Choisy

Cladonia uncialis subsp. *dicraea* (Ach.) D.Hawksw.

Mainly on rock outcrops and in bogs in coastal areas.

S Sk-Upl Mpd Jmt

N Øf Ak Vf-Fi

F A-EH EP

Ahti 1978, Litterski & Ahti 2004, Ahti & Stenroos 2013

Cladonia uncialis (L.) Weber ex F.H.Wigg. subsp. uncialis

On acidic soil in heaths, on rocks, in rather open forests, etc.

S Sk-TL

N Øf-Fi

F A-InL

Ahti & Stenroos 2013

Cladonia verticillata (Hoffm.) Schaer.

Cladonia cervicornis var. *verticillata* (Hoffm.) Flot.

Cladonia verticillata var. *evoluta* (Th.Fr.) Stein

On acidic, often exposed sandy soil, in open localities, especially road banks.

S Sk-TL

N VA-Fi

F A-InL

van Herk & Aptroot 2003, Ahti & Stenroos 2013

Cladonia zopfii Vain.

Cladonia dstricta auct., non (Nyl.) Fisch.-Benz.

Cladonia kanewskii auct. norv.

On acidic soil on heaths, open rocks, etc. in oceanic areas.

S Sk-Bh Vg Vrm

N Øf Op Vf-No

F -

Böcher & Christiansen 1941, Ahti 1973a, Ahti & Stenroos 2013

Claurouxia chalybeoides (Nyl.) D.Hawksw.

Catillaria chalybeoides (Nyl.) Zahlbr.

Lecidea chalybeoides Nyl.

Pseudolecidea chalybeoides (Nyl.) Clauzade & Cl.Roux

On humid, vertical, acidic rocks, on seepages, etc.

S Vrm Dlr Hls

N Ak Ho

F EH PK InL

Kilias 1981, Muhr 1987a, Thor & Arvidsson 1999

Clauzadea chondrodes (A.Massal.) Clauzade & Cl.Roux

On calcareous rocks.

S Öl Gtl Ög

N -

F -

Meyer 2002

Clauzadea immersa (Hoffm.) Hafellner & Bellem.

Lecidea immersa (Hoffm.) Ach.

Protoblastenia immersa (Hoffm.) J.Steiner

Verrucaria immersa Hoffm.

Lichen immersus Weber, (1778), non Huds. (1762)

On calcareous rocks.

S Öl-Dlr

N Ak No

F -

Hafellner 1984, Meyer 2002

Clauzadea metzleri (Körb.) Clauzade & Cl.Roux ex D.Hawksw.

Lecidea metzleri (Körb.) Th.Fr.

Protoblastenia metzleri (Körb.) J.Steiner

On calcareous rocks.

S Öl Gtl Dls Ög Vsm

N Ak

F U

Meyer 2002, Pykälä 2008

Clauzadea monticola (Schaer.) Hafellner & Bellem.

Sarcogyne calcomaura Norman

Lecidea concrescens H.Magn.

Lecidea fuscorubens (Nyl.) Nyl.

Lecidea monticola Schaer.

Protoblastenia monticola (Schaer.) J.Steiner

Mainly on calcareous rock.

S Sk-TL

N Ak He Bu Ro Ho ST-Fi

F V U PS PK PeP Ks

Degelius 1955b, Hertel 1977c, Hafellner 1984, Meyer 2002

Clauzadeana macula (Taylor) Coppins & Rambold

Clauzadeana instratula (Nyl.) Cl.Roux

Lecidea instratula Nyl.

Aspicilia morioides Blomb. ex Arnold

Lecanora morioides (Blomb. ex Arnold) Blomb.

Saxicolous.

S Sk-TL

N Ak AA-MR No

F EnL

Magnusson 1948a, Hertel & Rambold 1987, Rambold 1989, Hertel 1991

Clavascidium alvarense (Breuss) M.Prieto

Catapyrenium alvarense Breuss

Clavascidium umbrinum auct. non (Breuss) Breuss

Placidium umbrinum auct. non (Breuss) Prieto & Breuss

On calcareous rocks.

S ÖI Gtl

N -

F -

Breuss 1990b, Breuss 1994, Breuss 1996b, Moberg et al. 2017

Clavascidium lacinulatum (Ach.) M.Prieto

Catapyrenium lacinulatum (Ach.) Breuss

Placidium lacinulatum (Ach.) Breuss

On calcareous soil.

S ÖI Gtl

N -

F -

Breuss 1990a, Breuss 1995, Breuss 1996b, Prieto et al. 2012

Clavascidium umbrinum (Breuss) Breuss

Placidium umbrinum Breuss

On bryophytes or directly on calcareous rock or soil.

Not in Scandinavia. Previously reported material from Sweden belongs to *C. alvarense*.

Arup et al. 2011, Westberg et al. 2015b

Cliostomum corrugatum (Ach.:Fr.) Fr.

Lecidea corrugata Ach.

Limboria corrugata var. *alnea* Ach.

Limboria corrugata (Ach.) Ach.

Rhytisma corrugata (Ach.) Fr.

Cliostomum ehrhartiana (Ach.) Th.Fr.

Lecidea ehrhartiana (Ach.) Ach.

Cliostomum graniforme (K.G.Hagen) Coppins

Catillaria graniformis (K.G.Hagen) Vain.

On rough bark of *Quercus*, *Ulmus*, etc., also lignicolous.

S Sk-Jmt ÅsL

N Bu Te NT

F A-U St EH

Gowan 1990, Ekman 1997, Thor & Arvidsson 1999, Dahl 2003

Cliostomum flavidulum Hafellner & Kalb

Lecanora navarrensis Etayo

Lecanora trivialis A.Nordin et al. nom. nud.

On bark of deciduous trees.

S ÖI Gtl Sm Bh Dls Vg Srm Upl

N Øf

F -

Hale 1971, Nordin et al. 1995, Ekman 1997

Cliostomum griffithii (Sm.) Coppins

Catillaria griffithii (Sm.) Malme

Bacidia imitatrix Malme

Biatorina mixta (Fr.) Hellb.

Catillaria tricolor auct., non (With.) Th.Fr.

On tree bark, sometimes on lignum.

S Sk-Ång

N Øf Ak Bu Vf Ro Ho MR-Tr (a western sp.)

F A-U EH PH PeP Ks

Gowan 1990, Holien & Hilmo 1991, Ekman 1997

Cliostomum leprosum (Räsänen) Holien & Tønsberg

Lecidea ehrhartiana var. *ceracella* (Th.Fr.) Hedl.

Catillaria leprosa Räsänen

On bark of *Picea abies*.

S Vrm Dlr Gst Hls Ång Jmt Vb ÅsL

N Øf-Bu SF ST NT

F St-ES PH-PK Kn-Ks

Tønsberg 1992b, Ekman 1997, Tønsberg 1997

Cliostomum piceicola Holien & Tønberg

On *Picea abies* in old, humid, coniferous forests.

S Jmt
N NT No
F -

Holien & Tønberg 2017

Cliostomum subtenerum Coppins & Friday

On schistose rock.

S -
N No
F -

Svensson et al. 2017b

Cliostomum tenerum (Nyl.) Coppins & S.Ekman

Lecanora tenera (Nyl.) Cromb.

On siliceous coastal rocks.

S Sk
N Ro Ho
F -

Skjolddal 1982, Arup & Ekman 1992, Ekman 1997

* **Clypeococcum cladonema (Wedd.) D.Hawksw.**

Phaeodotis cladonema (Wedd.) Theiss. & Syd.

On *Cetrelia olivetorum* (thallus).

S -
N Ro (Seljuåsen 1953 R. Santesson)
F -

Santesson 1960, Hawksworth 1977a

* **Clypeococcum epicrassum (H.Olivier) Nav.-Ros. & Roux**

Didymosphaeria epicrassa (H.Olivier) Vouaux

Polycoccum epicrassum (H.Olivier) R.Sant.

On *Squamarina cartilaginea* (thallus).

S Srm
N -
F -

Santesson 1960, Hawksworth & Diederich 1988, Navarro-Rosinés et al. 1994

* **Clypeococcum grossum (Körb.) D.Hawksw.**

Discothecium grossum (Körb.) Vouaux

On *Umbilicaria arctica* (thallus).

S -
N No (Ottraen 1828 herb. Körb.)
F -

Hawksworth 1982a, Hawksworth & Diederich 1988

***Clypeococcum hypocenomycis D.Hawksw.**

On *Hypocenomyce scalaris* (thallus).

S Gtl Sm Vg Ög Srm Vsm Upl Hls Ång

N Øf Ak

F V EH Kn

Hawksworth 1980a, Triebel 1989, Santesson 1994a

Coccotrema citrinescens P.James & Coppins

On vertical, acidic dunite rocks.

S -

N NT No

F -

Coppins et al. 1992

Coenogonium luteum (Dicks.) Kalb & Lücking

Dimerella lutea (Dicks.) Trevis.

Microphiale lutea (Dicks.) Zahlbr.

On bark of deciduous trees in damp sites.

S Sk Gtl Sm Hl Vg Vsm Upl Gst Hls Ång Jmt

N Vf Te VA ST

F EH PS

Poelt & Vězda 1977, Nordin 1990a, Moberg & Thor 1993, Arup et al. 1997, Holien 1998a, Thor & Arvidsson 1999, Lücking & Kalb 2000

Coenogonium pineti (Ach.) Lücking & Lumbsch

Dimerella diluta (Pers.) Trevis.

Gyalecta diluta (Pers.) Blomb. & Forssell

Microphiale diluta (Pers.) Zahlbr.

Peziza diluta Pers., non Fr. (1822) Art. 13 1d

Lecidea incolorella Nyl.

Microphiale incolorella (Nyl.) Zahlbr.

Dimerella pineti (Ach.) Vězda

Lecidea pineti Ach.

On the bark of deciduous trees and conifers, also on decaying bryophytes on the ground, rarely on rock or lignum.

S Sk-Ång Jmt ÅsL LuL TL

N Øf-Fi

F V-OP Ks KiL

Jørgensen & Øvstedal 1975, Tønsberg & Øvstedal 1982, Hawksworth 1986b, Lücking et al. 2004

Collema curtisporum Degel.

Mainly on bark of *Populus*, sometimes on *Betula*, *Picea*, *Sorbus*, etc. in damp sites.

S Hls Hlj-LuL

N Op Bu

F OP-Ks

Degelius 1954, Degelius 1974, Tønsberg et al. 1996, Thor & Arvidsson 1999, Jørgensen 2007c, Ahti et al. 2012

Collema flaccidum (Ach.) Ach.

Collema rupestre (Sw.) Rabenh.

On siliceous rock, primarily by creeks and streams, sometimes on deciduous trees, rarely on bryophytes.

S Sk-TL

N Øf-Fi

F A-U St-ES PH-PK Kn-Ks SoL-InL

Degelius 1954, Jørgensen 2007c, Ahti et al. 2012

Collema furfuraceum (Arnold) Du Rietz

On bark *Populus tremula*, rarely on other deciduous trees, rock or lignum.

S (Sk) Bh-LuL Nb

N Øf Ak Op-Fi

F A-EK EH-Ks InL

Degelius 1954, Degelius 1974, Arup et al. 1997, Thor & Arvidsson 1999, Jørgensen 2007c, Ahti et al. 2012

Collema glebulentum (Nyl. ex Cromb.) Degel.

Collema coralliferum Degel.

Collema furvellum Räsänen

On siliceous rock by rivers, lakes, etc., rarely on bryophytes or on soil on rocks.

S Sm-TL

N Øf He-Bu Te AA Ro-SF ST-Fi

F EnL InL

Degelius 1954, Degelius 1968, Degelius 1974, Jørgensen 2007c, Jørgensen 2012b

Collema leptaleum Tuck.

On trunks of *Fraxinus*.

S -

N SF

F -

Tønsberg 1993, Tønsberg et al. 1996, Jørgensen 1996, Jørgensen 2007c, Ahti et al. 2012

Collema nigrescens (Huds.) DC.

Collema vespertilio (Lightf.) Hoffm.

On bark or among bryophytes on deciduous trees.

S Sm-LyL Nb

N Øf-Fi

F V EP OP Ks

Degelius 1954, Arup et al. 1997, Halonen et al. 1997, Thor & Arvidsson 1999, Jørgensen 2007c, Ahti et al. 2012

Collema subflaccidum Degel.

Collema subfurfurum, quoad specim. europ. in Degelius (1948a, p. 139, 1954, p. 400)

On bark of deciduous trees, very rarely on rocks.

S Sk Gtl Hl Bh Dls Vg NrK Srm Vrm Vsm Upl Dlr Gst Hls Hrj Jmt LuL

N Øf Ak Op-Tr

F -

Degelius 1954, Degelius 1974, Arup et al. 1997, Thor & Arvidsson 1999, Jørgensen 2007c, Ahti et al. 2012

Collema subnigrescens Degel.

On bark of *Populus tremula*, rarely on other trees or on rocks.

S (Sk) Sm-Jmt Vb

N Øf-AA Ro-Tr

F A-PH KP

Degelius 1954, Arup et al. 1997, Thor & Arvidsson 1999, Jørgensen 2007c, Ahti et al. 2012

Collemopsidium angermannicum (Degel.) A.Nordin

Arthopyrenia angermannica Degel.

On rocks in the inundation zone by streams and lakes.

S Bl Ång Jmt Nb LyL PL LuL

N -

F -

Degelius 1931, Nordin 2002b, Nordin 2002a

Collemopsidium argilospilum (Nyl.) Coppins & Aptroot

Arthopyrenia argilospila (Nyl.) A. L. Sm.

Verrucaria argilospila Nyl.

Pyrenocollema argilospilum (Nyl.) Coppins

On clayey soil.

S -

N -

F EH (Hollola 1872)

Coppins & Aptroot 2008

Collemopsidium caesium (Nyl.) Coppins & Aptroot

Arthopyrenia caesia (Nyl.) Zahlbr.

Pyrenocollema caesium (Nyl.) R.C.Harris

Thelidium caesium (Nyl.) Lönnr.

Thelidium nylanderii (Hepp) Lönnr.

On calcareous rock.

S Gtl?

N No

F -

Harris 1975, Degelius 1982, Harris 1995, Coppins & Aptroot 2008

Collemopsidium cephalodiorum (Triebel & Grube) Grube

Cercidospora cephalodiorum Triebel & Grube in Triebel

On *Pilophorus dovrensis* (cephalodia).

S Jmt

N -

F EnL

Triebel 1989, Grube 2005

Collemopsidium elegans (R.Sant.) Grube & B.D.Ryan

Arthopyrenia elegans R.Sant.

Pyrenocollema elegans R.Sant., nom. nud.

On seashore rocks in the upper hydrolitoral.

S Bh

N Ro Ho

F -

Klinkenberg 1979, Santesson 1992, Mohr 2001, Grube & Ryan 2002, Mohr et al. 2004

Collemopsidium foveolatum (A.L.Sm.) F.Mohr

Arthopyrenia foveolata A.L.Sm.

Pyrenocollema foveolatum (A.L.Sm.) F.Mohr

On shells on seashore rocks in the upper hydrolitoral zone.

S Bh

N Ho

F -

Mohr 2001, Mohr et al. 2004

Collemopsidium halodytes (Nyl.) Grube & B.D.Ryan

Arthopyrenia halodytes (Nyl.) Arnold

Pyrenocollema halodytes (Nyl.) R.C.Harris

Arthopyrenia kelpii Körb.

Arthopyrenia leptotera auct.

Pyrenocollema orustense (Erichsen) A.Fletcher

Arthopyrenia orustensis Erichsen

On seashore rocks, in the upper hydrolitoral zone.

S Sk Öl HI Bh Vg

N Ro Ho ST No Tr Fi

F -

Harris 1975, Litterski 1992, Mohr 2001, Grube & Ryan 2002, Mohr et al. 2004, Elvebakk & Bjerke 2006

Collemopsidium iocarpum (Nyl.) Nyl.

On granite.

S Bl (Hanö 1871 Hulting)

N -

F EH EP

The determination is very uncertain. See also Henssen (1980).

Hulting 1872

Collemopsidium sublitorale (Leight.) Grube & B.D.Ryan

Thelidium litorale auct.

Arthopyrenia litoralis auct.

Pyrenocollema sublitorale (Leight.) R.C. Harris ex A.Fletcher

Arthopyrenia sublitoralis (Leight.) Arnold

On shells of *Balanus*, *Patella*, *Litorina*, etc. on seashore rocks in the upper hydrolitoral zone.

S Sk-Bh Gtl?

N Øf Ro Ho ST-No Fi

F -

Santesson 1939c, Harris 1975, Johansson et al. 2000, Mohr 2001, Grube & Ryan 2002, Mohr et al. 2004

Coniocarpon cinnabarinum DC.

Arthonia cinnabarina (DC.) Wallr.

Arthonia gregaria (Weigel) Körb., non Fée

Arthonia tumidula (Ach.) Ach.

On smooth bark of deciduous trees, mainly *Corylus*, also *Fraxinus*, *Sorbus aucuparia* and *Fagus*.

S Sk (Bl) Gtl

N Ro Ho No?

F -

Almquist 1880, Almborn 1948, Grube et al. 1995, Arup et al. 1997, Johansson & Wågström 1997, Sundin & Tehler 1998, Thor & Arvidsson 1999, Blom et al. 2015, Fritz 2016a, Frisch et al. 2020b

Coniocarpon cuspidans (Nyl.) Moen et al.

Arthonia cinnabarina f. *cuspidans* Nyl.

On smooth bark, mostly on *Corylus avellana*, also on a range of other trees.

S -

N VA Ro Ho

F -

Frisch et al. 2020b

Coniocarpon fallax (Ach.) Grube

Arthonia elegans auct Brit., non (Ach.) Almq.

On bark of deciduous trees.

S Gtl

N VA Ro Ho MR

F -

Purvis et al. 1992, Blom et al. 2015, Frisch et al. 2020b

Coniocybe sulphurea (Retz) Nyl.

Nom. dub.

Coppinsia minutissima Lumbsch & Heibel

Terricolous, on clay or sandy soil.

S Sk Upl Gst

N -

F V

Lumbsch & Heibel 1998, Pykälä 2006, Svensson & Westberg 2010

Cornicularia normoerica (Gunnerus) Du Rietz

Cetraria normoerica (Gunnerus) Lyngé

Cetraria tristis (Weber) Fr.

Cornicularia tristis (Weber) Ach.

On rocks in more or less strongly exposed places.

S HI Bh (Upl) Hrg Jmt TL (distrib. strongly western)

N He-Bu Te-Fi

F -

Wirth 1972, Kärnefelt 1986, Thell & Kärnefelt 2011e

***Cornutispora ciliata Kalb**

On Ochrolechia upsaliensis and Pertusaria amara (soralia).

S Ög

N ST Tr

F -

Gierl & Kalb 1993, Alstrup et al. 2008, Thell et al. 2014, Frisch et al. 2020a

***Cornutispora lichenicola D.Hawksw. & B.Sutton**

On Parmelia saxatilis, Pertusaria pertusa, Ochrolechia tartarea (thallus), Melanohalea olivacea, Cetraria sepincola (apothecia) and Lecanora cadubriac.

S Sk Vg Ög Vsm Upl Jmt Vb ÅsL

N Op Tr

F -

Hawksworth 1981b, Hafellner 1993b, Santesson 1994a, Alstrup et al. 2008

***Corticifraga fuckelii (Rehm) D.Hawksw. & R.Sant.**

Phragmonaevia fuckelii Rehm

Cryptomyces peltigerae Fuckel

On several species of Peltigera (thallus).

S Sk-TL

N Op Ro-SF Tr

F A-PK OP Ks SoL-InL

Santesson 1960, Santesson 1984b, Santesson 1986, Øvstedal 1986, Santesson 1988, Hawksworth & Santesson 1990, Puolasmaa et al. 2012, Suija & Jüriado 2020

***Corticifraga peltigerae (Nyl.) D.Hawksw. & R.Sant.**

Phragmonaevia peltigerae (Nyl.) Rehm

On several species of Peltigera and on Lobaria linita and Solorina crocea (thallus).

S Sm-TL

N Ho SF No-Fi

F A-EH EP PH-KP OP Ks SoL-InL

Santesson 1960, Santesson 1984b, Santesson 1986, Hawksworth & Santesson 1990, Puolasmaa et al. 2012

***Corticiruptor abelonae (P.M.Jørg.) Wedin & Hafellner**

Arthonia abeloniae P.M.Jørg., "abelonae"

On *Sticta canariensis* (*S. dufourii*) (thallus).

S -

N Ho (Møkster 1967 Bjørnstad)

F -

Wedin & Hafellner 1998, Jørgensen 1970

Cresponea chloroconia (Tuck.) Egea & Torrente

Lecanactis deminuens (Nyl.) Vain.

Lecidea premnea f. *deminuens* Nyl.

On lignum of *Picea*.

S -

N -

F EH (Asikkala 1865).

Egea & Torrente 1993b

Cresponea premnea (Ach.) Egea & Torrente

Lecanactis premnea (Ach.) Arnold

Lecidea premnea Ach.

On rain-sheltered, horizontal shelves of soft gneiss under overhang.

S Bh (A.H. Magnusson 1920 Valla)

N -

F -

Ekman 2010b

Cresporhaphis macrospora (Eitner) M.B.Aguirre

Leptorhaphis quercus f. *macrospora* Eitner

On a young *Quercus*.

S Nrk

N Ro

F -

Probably lichenized.

Hellbom 1871b, Aguirre-Hudson 1991

Cresporhaphis wienkampii (J.Lahm ex Hazsl.) M.B.Aguirre

Leptorhaphis wienkampii J.Lahm ex Hazsl.

On bark of *Populus tremula* and *Salix*.

S Vg Nrk

N -

F V

Probably lichenized.

Aguirre-Hudson 1991, Pykälä 2008

* **Crittendenia coppinsii (P. Roberts) Diederich et al.**

Chionosphaera coppinsii P. Roberts

On species of *Melanelixia* and *Melanohalea*.

S Upl

N MR

F -

Millanes et al. 2021

* **Crittendenia lichenicola (Alstrup et al.) Diederich et al.**

Chionosphaera lichenicola Alstrup et al.

On *Micarea prasina* (thallus).

S -

N Ho (Fjell 1989 Tønsberg)

F -

Alstrup 1993, Diederich 1996

Crutarndina petractoides (P.M.Jørg. & Brodo) Parmen et al.

Thelotrema petractoides P.M.Jørg. & Brodo

Thelotrema subtile auct., non Tuck.

On smooth bark, primarily of *Corylus*, sometimes *Fraxinus* or *Sorbus*.

S -

N Ho SF

F -

Jørgensen 1996, Parmen et al. 2012, Blom et al. 2015

* **Cryptodiscus cladoniicola (D.Hawksw. & R.Sant.) Pino-Bodas, Zhurb. & S.Stenroos**

Lettauia cladoniicola D.Hawksw. & R.Sant.

Phragmonaevia sp. Lettau

On *Cladonia arbuscula*, *C. rangiferina*, *C. amaurocraea* (thallus).

S Sk Öl Dls Vrm Upl

N Ho

F U

Hawksworth & Santesson 1990, Santesson 1994b, Ihlen 1997b, Pino-Bodas et al. 2017

Cryptodiscus gloeocapsa (Arnold) Baloch et al.

Gloeolecta bryophaga (Körb. ex Arnold) Vězda

Bryophagus gloeocapsa Nitschke ex Arnold

Gloeolecta gloeocapsa (Arnold) Lettau

Gyalecta gloeocapsa (Arnold) Zahlbr.

On soil or on bryophytes overgrowing soil, rarely on soft lignum.

S Sk-TL

N Ro Ho ST NT Tr

F KiL

In Scandinavian publications before 1965 the name *Gyalecta bryophaga* has often been misused for *Absconditella sphagnorum* Vězda & Poelt.

Vězda 1966a, Elvebakk & Bjerke 2006

Cryptolechia carneolutea (Turner) A.Massal.

Gyalecta carneolutea (Turner) H.Olivier

Not in F, N or S. Incorrectly reported from Scandinavia. Reports refer to *Pertusaria carneolutea* = *P. carneopallida*

***Cryptothele granuliformis* (Nyl.) Henssen**

Collema extendens Nyl., uncertain synonym

Pyrenopsidium extendens (Nyl.) Forssell

Pyrenopsis extendens (Nyl.) Vain.

Pyrenopsidium granuliforme (Nyl.) Forssell

On irrigated siliceous rocks.

S Bl-Upl Jmt Nb PL

N No

F U EH PK Kn Ks InL

Henssen & Büdel 1984, Jørgensen & Henssen 1990, Nordin 2002b, Jørgensen 2007e, Svensson et al. 2011, Ahti et al. 2012

***Cryptothele neglecta* Henssen**

On siliceous rocks.

S Nrk

N -

F -

Jørgensen 2007e, Ahti et al. 2012, Henssen 1980

***Cryptothele permiscens* (Nyl.) Hellb.**

On siliceous rocks, schists, etc., in moist places.

S Bh Ög Nrk Upl LuL

N No

F -

Henssen & Jørgensen 1990, Jørgensen 2007e, Ahti et al. 2012

***Cryptothele rhodosticta* (Taylor) Henssen**

On rocks at shore of lake.

S -

N Ho (Sotra 1978 Øvstedal)

F -

Most earlier reports from Scandinavia are erroneous.

Henssen & Jørgensen 1990, Schultz 2006, Jørgensen 2007e, Ahti et al. 2012

+*Cyrtidula hippocastani* (DC.) R.C.Harris

Mycoporum hippocastani (DC.) Coppins

Cyrtidula ptelaeodes (Ach.) Minks

Mycoporum ptelaeodes (Ach.) Nyl.

On twigs and branches of deciduous trees.

S Sk Bl Sm Bh Vg Upl LuL TL

N Op Ho No Fi

F U EH PH PS PeP EnL

Harris 1995

+*Cyrtidula quercus* (A.Massal.) Minks

Mycoporum quercus (A.Massal.) Müll.Arg.

On twigs and branches of deciduous trees, mainly *Quercus* and *Corylus*.

S Sk Gtl Dls Vg Ög Srm Vrm Dlr

N Ho

F -

Harris 1995

****Cystobasidium hypogymniicola* Diederich & Ahti**

On *Cavernularia hultenii*, *Hypogymnia physodes* (thallus).

S -

N NT No

F Ks

Diederich 1996, Holien 2001

***Cystocoleus ebeneus* (Dillwyn) Thwaites**

Cystocoleus niger auct.

Coenogonium nigrum auct., *Byssus niger* Huds. 1862 is a nom. non satis nota

On rocks, mainly on vertical, shaded surfaces of acidic rocks.

S Sk-TL (not Öl Gtl)

N Øf-He Bu-SF ST No Tr Fi

F A-EP PS-SoL InL

Skuja & Ore 1935, Wirth 1972, Clauzade & Roux 1985, Elvebakk & Bjerke 2006

****Dacampia engeliana* (Saut.) A.Massal.**

Pleospora engeliana (Saut.) G.Winter

On *Solorina saccata* (thallus).

S TL (Vassitjåkko 1947 R. Santesson)

N -

F -

Hawksworth 1986a, Henssen 1995d

***Dacampia hookeri* (Borrer) A.Massal.**

Pleospora hookeri (Borrer) Keissl.

Verrucaria hookeri Borrer

Xenosphaeria hookeri (Borrer) Vain.

Terricolous, in alpine heaths.

S Htj Jmt TL

N No-Fi

F EnL

Eriksson 1981, Hawksworth 1986a, Wittmann & Türk 1987, Henssen 1995d

****Dacampia rufescentis* (Vouaux) D.Hawksw.**

Pleospora rufescentis Vouaux

On *Peltigera rufescens*, *P. didactyla* (thallus).

S Upl ÅsL

N Op?

F V KP Kn PeP

Hawksworth 1986a, Santesson 1988, Puolasmaa et al. 2012, Puolasmaa et al. 2012

Dactylina ramulosa (Hook.) Tuck.

On the ground in alpine heath.

S -
N Tr
F EnL

Hakulinen 1968, Timdal 2004, Thell & Kärnefelt 2011f

Dendrographa decolorans (Turner & Borrer ex Sm.) Ertz & Tehler

Arthonia decolorans (Turner & Borrer ex Sm.) Erichsen

Lepraria decolorans (Turner & Borrer ex Sm.) Almb.

Schimatomma decolorans (Turner & Borrer ex Sm.) Clauzade & Vězda

Mainly on old *Quercus*, sometimes on other deciduous trees.

S Sk-Upl
N Ro
F -

Almborn 1948, Arup et al. 1997, Thor & Arvidsson 1999, Nordén et al. 2013

Dendrographa latebrarum (Ach.) Ertz & Tehler

Crocynia hueana B.de Lesd.

Lepraria hueana (B.de Lesd.)

Lecanactis latebrarum (Ach.) Arnold

Lepraria latebrarum (Ach.) Ach.

On dry, siliceous rock, primarily under overhangs, rarely corticolous.

S Bl Hl Bh Vg Ög Vrm
N Op Bu Te Ro-SF ST NT
F -

Jørgensen & Tønsberg 1988, Tønsberg 1992b, Kümmerling et al. 1994, Egea & Torrente 1994

Dermatocarpon arbogense Servít

Placopyrenium arbogense (Servít), ined.

On siliceous rock.

S Nrk (Arboga 1950 Kjellmert)
N -
F -

Not a *Dermatocarpon* species; closely related to *Placopyrenium*, according to Breuss.
Servít 1955, Breuss 1990a

Dermatocarpon bachmannii Anders

On basic rocks, e.g., in seepages.

S Vg-Upl Mpd ÅsL
N Øf Ak AA
F A V St

Moberg 1986, Heiðmarsson 1998, Thor & Arvidsson 1999, Heiðmarsson 2001

Dermatocarpon deminuens Vain.

Dermatocarpon laatokkaëense Räsänen

On sometimes inundated rocks at the shores of lakes and streams.

S Bl-Upl

N Øf Ak Bu Vf AA Ro No Tr

F A V EH

Santesson 1939b, Magnusson 1942b, Hasselrot 1953b, Heiðmarsson 1998, Heiðmarsson 2001

Dermatocarpon leptophyllodes (Nyl.) Zahlbr.

Dermatocarpon diffractum (Th.Fr.) Blomb. & Forssell

Dermatocarpon miniatum var. *diffractum* Th. Fr.

On schist and more or less soft rocks.

S Bl Dls

N Ak Bu Ro No

F V

Orange 1998, Heiðmarsson 2001, Heiðmarsson 2003, Pykälä 2011, Hemberg 2016

Dermatocarpon leptophyllum (Ach.) K.G.W.Lång

On calcareous rocks.

S ÖI Gtl Vg Dls Srm Upl Hvj TL

N No Fi

F V EnL

According to Heiðmarsson (2003), a synonym of *Dermatocarpon miniatum*.

Malme 1937, Magnusson 1942b, Degelius 1942, Heiðmarsson 2001

Dermatocarpon linkolae Räsänen

Saxicolous, in wet habitats.

S Bh

N Øf

F EnL

According to Heiðmarsson (2003), a synonym of *Dermatocarpon miniatum*.

Räsänen 1934, Heiðmarsson 2001, Heiðmarsson 2003

Dermatocarpon litorale H.Magn.

Verrucaria atlantica (H.Magn.), comb. ined.

Dermatocarpon atlanticum H.Magn., nom. illeg.

Dermatocarpon magnussonii Werner, nom. nov., 1 June 1951

On irrigated, slaty rock.

S -

N Ro (Randaberg 1939 Magnusson)

F -

Generic position uncertain, not a *Dermatocarpon*, *Catapyrenium* or *Verrucaria*.

Magnusson 1949a, Magnusson 1952a, Breuss 1990a, Jørgensen & Nordin 2009, Jørgensen & Nordin 2009

Dermatocarpon luridum (With.) J.R.Laundon

Dermatocarpon aquaticum (Weis) Zahlbr.

Dermatocarpon fluviatile (Weber) Th.Fr.

Dermatocarpon weberi (Ach.) W. Mann

On often submerged rocks in streams, at the shores of lakes, etc.

S Sk-Jmt Vb ÅsL LyL PL

N Øf-ST No

F A-ES PH-PK Kn-InL

Heiðmarsson 2001

Dermatocarpon meiophyllizum Vain.

Dermatocarpon bachmannii var. *inundatum* Klem.

Dermatocarpon meiophyllum Vain.

On sometimes submerged rocks at the shores of lakes and streams.

S Sk-LuL

N Øf-Bu Ho No

F A-U St? EH ES PS Ks EnL InL

Dahl 1938, Santesson 1939b, Magnusson 1942b, Heiðmarsson 1998, Heiðmarsson 2001

Dermatocarpon miniatum (L.) W.Mann

Harada 1993, Heiðmarsson 2001, Heiðmarsson 2003

Dermatocarpon miniatum (L.) W.Mann var. cirsiodes (Ach.) Zahlbr.

Dermatocarpon caesium Räsänen

Dermatocarpon miniatum var. *papillosum* (Anzi) Müll.Arg.

On calcareous rocks.

S Htrj ÅsL

N Op SF ST Tr Fi

F -

Heiðmarsson 2001, Heiðmarsson 2003

Dermatocarpon miniatum (L.) W.Mann var. complicatum (Lightf.) Th.Fr.

Dermatocarpon intestiniforme (Körb.) Hasse

Dermatocarpon polyphyllum auct.

On humid rocks, seepages, etc.

S Sm-TL

N VA-Fi

F A-ES PS PK Kn Ks EnL

Heiðmarsson 2001, Heiðmarsson 2003

Dermatocarpon miniatum (L.) W.Mann var. miniatum

Dermatocarpon arnoldianum Degel.

Dermatocarpon miniatum var. *umbilicatum* (Schaer.) Vain.

On often wet rocks, like seepages, etc.

S Sk-TL

N Øf-Fi

F A-ES PH-PK Kn PeP Ks SoL-InL

Heiðmarsson 2001, Heiðmarsson 2003

Dermatocarpon norrlandicum H.Magn.

Verrucaria norrlandica (H.Magn.), comb. ined.

On a perpendicular calcareous rock.

S LyL

N -

F Ks

Generic position uncertain, not a *Dermatocarpon*, *Catapyrenium* or *Verrucaria*.

Magnusson 1946, Breuss 1990a, Pykälä 2011

Dermatocarpon nuoljae H.Magn.

Verrucaria nuoljae (H.Magn.), comb. ined.

On calcareous stone.

S TL (Nuolja 1925 E. Frey)

N -

F -

Generic position uncertain, not a *Dermatocarpon*, *Catapyrenium* or *Verrucaria*.

Magnusson 1952a, Breuss 1990a

Dermatocarpon polyphyllizum (Nyl.) Blomb. & Forssell

Dermatocarpon caesium var. *frigida* Räsänen

On more or less humid rocks.

S Srm LyL TL

N Op ST No-Fi

F V EH KiL EnL InL?

Degelius 1942, Heiðmarsson 2001

Dermatocarpon rivulorum (Arnold) Dalla Torre & Sarnth.

On rocks and boulders on seepages, etc., and in alpine regions usually in small streams and on wet areas below snowbeds.

S Jmt TL

N Op Bu Ro-SF ST Fi

F EnL

Dahl 1938, Rui 1943, Degelius 1948a, Hasselrot 1953b, Heiðmarsson 1998, Heiðmarsson 2001

Dermatocarpon taernaëense H.Magn.

Verrucaria taernaënsis (H.Magn.), comb. ined.

On a perpendicular calcareous rock.

S LyL

N -

F Ks

Generic position uncertain, not a *Dermatocarpon*, *Catapyrenium* or *Verrucaria*.

Magnusson 1946, Breuss 1990a, Pykälä 2011

Diarthonis spadicea (Leight.) Frisch et al.

Arthonia lurida Ach., s. str. non auct.

Arthonia lurida var. *spadicea* (Leight.) Nyl.

Arthonia spadicea Leight.

On deciduous trees and shrubs in shade, often near the base.

S Sk-Hls Ång
N Ak Ro Ho ST
F A V EK-EH PH

Almqvist 1880, Demoulin et al. 1981, Litterski 1992, Arup et al. 1997, Sundin & Tehler 1998

Dibaeis baeomyces (L.f.) Rambold & Hertel

Lichen baeomyces L.f.

Pertusaria bryontha var. *roseoalba* Räsänen

Baeomyces roseus Pers.

On moist soil (depressions on rocks, etc.).

S Sk-TL (esp. in western distr.)
N Øf-Bu Te VA-Fi
F V U St-ES PH-InL

Thomson 1967, Jahns & Smittenberg 1970, Rambold et al. 1993, Gierl & Kalb 1993, Ihlen 1997b

***Didymella collematum (J. Steiner) Vouaux var. cladoniae Keissl.**

Unknown application, see Grube & Hafellner (1990, p. 335-336).

***Didymellopsis pulposi (Zopf) Grube & Hafellner**

On *Collema tenax* (thallus).

S Hrj (Ramundberget 1947 G. Degelius).
N -
F -

Grube & Hafellner 1990

***Didymocyrtis bryonthae (Arnold) Hafellner**

Didymosphaeria bryonthae (Arnold) G. Winter, incl. var. *stellulatae* Vouaux

Polycoccum bryonthae (Arnold) Vězda

On *Lecanora epibryon* (apothecia).

S Gtl? Vg? Ång Hrj LyL TL
N -
F -

On "*Lecanora subfusca* v. *bryontha*" = *L. epibryon*, not *Pertusaria bryontha*.

Arnold 1874, Vězda 1969b, Hawksworth & Diederich 1988, Ertz et al. 2015

Didymocyrtis consimilis Vain.

Phoma caloplacae D.Hawksw.

On the *Caloplaca cerina* group.

S TL
N Op
F PeP

Hawksworth 1981b, Ertz et al. 2015

***Didymocyrtis epiphyscia Ertz & Diederich**

Phoma physciicola Keissl.

On *Physconia distorta* (thallus).

S Sm Srm

N -

F V InL

The report from TL (Magnusson 1952a, p. 247) probably refers to *Phoma caloplacae*.

Hawksworth 1981b, Santesson 1984b, Alstrup & Hawksworth 1990, Puolasmaa et al. 2008

***Didymocyrtis foliaceiphila (Diederich et al.) Ertz & Diederich**

On *Cladonia arbuscula*.

S -

N -

F U

Zhurbenko & Pino-Bodas 2017

***Didymocyrtis pseudeverniae (Etayo & Diederich) Ertz & Diederich**

Diederichia pseudeverniae (Etayo & Diederich) D.Hawksw.

Macrophomia pseudeverniae Etayo & Diederich

On *Pseudevernia furfuracea*.

S -

N NT

F -

Holien et al. 2016a

***Didymocyrtis ramalinae (Roberge ex Desm.) Ertz et al.**

On *Ramalina* species (apothecia, thallus).

S Bh (Lysekil 1992 J. Hafellner)

N -

F -

Ertz et al. 2015

Dimelaena oreina (Ach.) Norman

Rinodina hueana Vain.

Rinodina mougeotioides Nyl.

Rinodina oreina (Ach.) A.Massal.

On rocks, mainly on rock walls in the mountains.

S Dlr-Jmt LuL TL

N He Op Ho-ST Tr Fi

F EnL

Leuckert et al. 1975b, Sheard & Ahti 1975, Sheard 1977, Leuckert et al. 1981, Moberg 2002b

Diploicia canescens (Dicks.) A.Massal.

Buellia canescens (Dicks.) De Not.

Diplotomma canescens (Dicks.) Flot.

On rough bark of old deciduous trees or on vertical, calcareous rock.

S Sk Bl Gtl

N Ho

F -

Almborn 1948, Litterski 1992, Arup et al. 1997, Thor & Arvidsson 1999, Moberg 2002c, Hagström 2008, Arup & Hemberg 2010

Diploschistes gypsaceus (Ach.) Zahlbr.

Diploschistes albissimus sensu Räsänen, non (Ach.) Dalla Torre & Sarnth.

Diploschistes cretaceus (Ach.) Lettau

Diploschistes ochrophanes Lettau

On calcareous rocks.

S Dls-TL

N Ak Op Bu Te Ho SF ST-Fi

F EP Kn Ks SoL EnL

Garty & Galun 1974, Lumbsch 1989

Diploschistes muscorum (Scop.) R.Sant.

Diploschistes bryophilus (Ach.) Zahlbr.

Lichen impressus Sw.

Stictis lichenicola Mont. & Fr.

Dothidea lichenum Sommerf.

Lichen muscorum Scop.

Urceolaria scruposa subsp. *subscruposa* Nyl.

Diploschistes scruposus var. *parasiticus* (Sommerf.) Zahlbr.

Diploschistes subscruposus (Nyl.) Zahlbr.

On other lichens (especially *Cladonia*), on bryophytes, etc., on calcareous soil (as young often a parasymbiont).

S Sk-TL

N Øf-Te Ro-Fi

F A-U EH-KP PeP Ks EnL InL

Garty & Galun 1974, Friedl 1987a, Friedl 1987b, Lumbsch 1989

Diploschistes scruposus (Schreb.) Norman

On siliceous rocks, rarely on bryophytes or on plant debris.

S Sk-TL

N Øf-Fi

F A-InL

Lumbsch 1989

Diplotomma alboatrum (Hoffm.) Flot.

Buellia alboatra (Hoffm.) Th.Fr.
Buellia ambigua (Ach.) Malme
Diplotomma ambiguum (Ach.) Flagey
Buellia chlorophaea (Hepp ex Leight.) Lettau
Buellia epipolia (Ach.) Mong.
Diplotomma epipolium (Ach.) Arnold
Buellia margaritacea Lyngé
Buellia nivalis (Bagl. & Carestia) Hertel
Buellia populorum (A.Massal.) Clauzade & Cl.Roux
Buellia vezdana P.Scholz & Knoph

Corticolous, saxicolous and lignicolous, sometimes starting as a parasite (on *Xanthoria* and *Caloplaca* spp.).

S Sk-TL
N Øf-Bu AA Ro-SF ST-Fi
F A-U EH ES PK Kn Ks EnL InL

Fries 1874, Nordin 1996a, Nordin 2000b, Foucard et al. 2002

Diplotomma lutosum A.Massal.

Diplotomma dispersum (Kremp.) Arnold
Buellia subdispersa Mig.

On calcareous rocks and mortar.

S Gtl Upl Dlr Jmt
N NT No
F V

Nordin 2000b, Foucard et al. 2002

Diplotomma pharcidium (Ach.) Choisy

Buellia alboatra var. *zabotica* (Körb.) Th.Fr.
Buellia pharcidia (Ach.) Malme
Buellia zabotica (Körb.) Räsänen

On smooth bark of *Sorbus aucuparia*, *Fraxinus*, *Salix*, *Populus*, etc.

S Sk-Upl
N Øf MR
F A-U EH

Nordin 1996a, Nordin 2000b, Foucard et al. 2002, Klepsland 2020

Diplotomma venustum Körb.

Buellia alboatra var. *venusta* (Körb.) Th.Fr.
Diplotomma hedinii (H.Magn.) P.Clerc & Cl.Roux
Buellia venusta (Körb.) Lettau

On calcareous rocks.

S Öl Gtl Sm Vg Ög
N Ak Te ST No Fi
F V

Nordin 1996a, Nordin 2000b, Foucard et al. 2002

Dirina fallax De Not.

On overhanging siliceous rock.

S Ög
N Ro Ho MR
F -

First reported as *Dirina masiliensis* f. *sorediata* from the locality in Ög (Nordin & Hermansson 1999).
Nordin & Hermansson 1999, Tehler et al. 2013, Svensson et al. 2017b, Frisch et al. 2020a

Dirina massiliensis Durieu & Mont.

Dirina repanda f. *stenhammari* (Fr. ex Stenh.) Clauzade & Cl.Roux

Dirina repanda auct., non Fr.

Dirina stenhammari (Fr. ex Stenh.) Poelt & Follmann

Lecanactis stenhammari (Fr. ex Stenh.) Arnold.

Lecidea stenhammari Fr. ex Stenh.

On calcareous or non-calcareous rock, often near the sea.

S ÖI Gtl
N Ro-MR
F -

Report from Ög (Nordin & Hermansson 1999, p.15) refers to *Dirina fallax*.
Stenhammar 1847, Poelt & Follmann 1968, Tehler 1983, Botnen & Tønsberg 1988, Nordin & Hermansson 1999

Discothecium gemmiferum (Taylor) Vouaux

Unknown application.

Hawksworth 1978a

*** *Echinodiscus lesdainii* (Vouaux) Etayo & Diederich**

Phacopsis lesdainii Vouaux

On *Lecania* cf. *cyrtella* (thallus).

S Gtl (Alskog 1920 Degelius)
N Ak
F -

Etayo & Diederich 2000, Klepsland 2020

*** *Echinothecium cladoniae* Keissl.**

On *Cladonia stellaris*, *C. arbuscula*, *C. amaurocraea*, *C. fimbriata* (thallus).

S Upl Dlr Jmt
N No
F EH

A provisional name, is not an *Echinothecium*.

von Keissler 1930, Santesson 1984b, Santesson 1994a, Santesson 1994b

Eiglera flavida (Hepp) Hafellner

Lecidea contraria Malme

Aspicilia flavida (Hepp) Rehm

Lecanora flavida Hepp

On crystalline schist, slate, calcareous rock, etc.

S Sk Vg Dlr Hrj-TL

N Ak Fi

F EnL

Fries 1871, Malme 1919b, Eigler 1969, Hertel 1975c, Hafellner 1984, Pykälä 2010c

Elixia flexella (Ach.) Lumbsch

Lecidea flexella (Ach.) Hedl.

Leptographa flexella (Ach.) M.Choisy

Lithographa flexella (Ach.) Zahlbr.

Ptychographa flexella (Ach.) Coppins

Xylographa flexella (Ach.) Fr.

Hazslinszkyia inarense Vain.

On more or less decaying wood, rarely saxicolous.

S Sm-Jmt LyL LuL

N Ak Op Ho-MR NT

F EH InL

Fries 1874, Lumbsch 1997

Enchylium bachmanianum (Fink) Otálora et al.

Collema bachmanianum var. *millegranum* Degel.

Collema bachmanianum (Fink) Degel.

Enchylium bachmanianum var. *millegranum* (Degel.) M.Schultz & McCune

On more or less calcareous soil.

S ÖI Gtl Bh Vg-TL

N Øf-Op Ro-SF ST-Fi

F A-EK ES Kn Ks PeP

Degelius 1954, Jørgensen 2007c, Ahti et al. 2012, Otálora et al. 2014

Enchylium coccophorum (Tuck.) Otálora et al.

Collema coccophorum Tuck.

On bare, more or less calcareous soil.

S Sm TL

N (Op) VA

F -

Degelius 1954, Tønsberg et al. 1996, Jørgensen 2007c, Ahti et al. 2012, Otálora et al. 2014

Enchylium conglomeratum (Hoffm.) Otálora et al.

Collema conglomeratum Hoffm.

On bark of *Acer* and *Fraxinus*.

S -

N Ak Bu

F -

Degelius 1954, Haugan 1995, Jørgensen 2007c, Ahti et al. 2012, Otálora et al. 2014

Enchylium expansum (Degel.) P.M.Jørg.

Collema tenax var. *expansum* Degel.

On mossy calcareous rocks in arctic-alpine areas.

S Hjr Jmt LuL TL

N Op ST No Tr

F -

Jørgensen & Goward 2015

Enchylium limosum (Ach.) Otálora et al.

Collema glaucescens Hoffm.

Collema limosum (Ach.) Ach.

On soil, mostly on calcareous clay.

S Sk-Dlr Jmt

N Ak Ho ST No Fi

F V ES

Degelius 1954, Degelius 1974, Lönnell 2005, Jørgensen 2007c, Ahti et al. 2012, Otálora et al. 2014

Enchylium polycarpon (Hoffm.) Otálora et al.

Collema polycarpon Hoffm.

On calcareous rocks.

S ÖI Gtl Dls-TL

N Øf-Te Ro Ho ST-Fi

F V EH PK Kn OP Ks EnL InL

Degelius 1954, Jørgensen 2007c, Ahti et al. 2012, Otálora et al. 2014

Enchylium tenax (Sw.) Gray

Collema ceranoides Borrer

Collema pulposum (Bernh.) Ach.

Collema subcorallinum Degel.

Collema tenax (Sw.) Ach.

On more or less calcareous soil.

S Sk-TL

N Øf-AA Ro Ho ST-Fi

F A-U ES PS Ks

Degelius accepts 7 varieties, 6 of these in Scandinavia.

Degelius 1954, Jørgensen 2007c, Ahti et al. 2012, Otálora et al. 2014

Endocarpon adscendens (Anzi) Müll.Arg.

Endocarpon pallidum auct.

On bryophytes or soil on calcareous ground.

S Hl-Mpd

N Ak Op Bu Ro NT No

F V

"*E. pallidum* Ach. diversa est species" (Vainio 1921, p. 79).

Vainio 1921, Zschacke 1933a

Endocarpon adsurgens Vain.

On bryophytes on rock.

S Vg Ög Srm Upl Mpd

N He Te

F InL

Vainio 1921

Endocarpon indecoloratum Sommerf.

Unknown application.

Endocarpon leptolepideum (Nyl.) Nyl.

Terricolous.

S Upl (Uppsala before 1861 Nylander)

N -

F -

To Endocarpon pusillum? (Poelt 1969, p. 284).

Nylander 1861

Endocarpon psorodeum (Nyl.) Blomb. & Forssell

On siliceous rocks (serpentine).

S Hrtj ÅsL

N Op

F V U ES? PS PK

Vainio 1921, Zschacke 1933a, Thor & Arvidsson 1999, Klepsland 2020

Endocarpon pulvinatum Th.Fr.

On calcareous rocks.

S Hrtj-TL

N Ak Tr Fi

F PK Ks EnL InL

Vainio 1921, Zschacke 1933a, Elvebakk & Bjerke 2006

Endocarpon pusillum Hedw.

Endocarpon garovaglii Mont.

Endocarpon schaeereri Körb.

Endocarpon trapeziforme (J. Koenig) Trevis.

Terricolous on calcareous ground.

S Öl Gtl Vg Upl Dlr Jmt TL

N Ak He Bu Ro ST No Tr

F V

Vainio 1921, Zschacke 1933a, Elvebakk & Bjerke 2006

* **Endococcus brachysporus (Zopf) M.Brand & Diederich**

Discothecium gemmiferum var. *brachysporum* (Zopf) Vouaux

On *Porpidia* spp. (thallus).

S Sk TL

N -

F -

According to Triebel (1989) and Ihlen & Wedin (2008) conspecific with *Endococcus propinquus*.

Sérusiaux et al. 1999

* **Endococcus exerrans Nyl.**

On *Rhizocarpon distinctum* (thallus).

S Upl (Holm, Sjö, 1937 R. Santesson)

N -

F -

Nylander 1879, Santesson 1994a, Sérusiaux et al. 1999, Kocourková 2000

* **Endococcus fusiger Th.Fr. & Almq.**

On *Rhizocarpon geminatum* (thallus).

S Hrj (Funäsdalen, 1866 S. Almquist)

N -

F -

According to Triebel (1989) and Ihlen & Wedin (2008) conspecific with *Endococcus perpusillus*.

Fries 1868a, Sérusiaux et al. 1999, Kocourková 2000

* **Endococcus macrosporus (Hepp ex Arnold) Nyl.**

Endococcus stigma auct., p.p.

On *Rhizocarpon geographicum* and *R. lecanorinum* (thallus).

S Sk Bh Ög Upl Ång Vb PL

N Ho MR Tr

F -

According to Triebel (1989) and Ihlen & Wedin (2008) conspecific with *Endococcus perpusillus*.

Hafellner 1993b, Sérusiaux et al. 1999, Kocourková 2000, Alstrup et al. 2008

* **Endococcus nanellus Ohlert**

On *Stereocaulon* spp.

S Upl (Uppsala 1856 Th. M. Fries)

N -

F -

Zhurbenko 2010

* **Endococcus perpusillus Nyl.**

Endococcus complanatae Arnold

Tichothecium perpusillus (Nyl.) Arnold

Polycoccum sporastatae f. *incongruae* Arnold

Discothecium stigma var. *caerulescens* Zopf

Endococcus stigma auct., non (Körb.) Stizenb.; p.p.

On *Schaereria fuscocinerea*, (thallus).

S Sk Bh Srm Jmt

N ST

F V EH PH Kn PeP

Triebel 1989, Santesson 1994a, Roux & Triebel 1994

* **Endococcus propinquus (Körb.) D.Hawksw.**

Discothecium gemmiferum auct., non (Taylor) Körb.

Tichothecium gemmiferum (Taylor) Körb.

On *Amygdalaria panaeola*, *Aspicilia* sp., *Calvitimela armeniaca*, *C. melaleuca*, *Ionaspis lacustris*, *Koerberiella wimmeriana*, *Lecanora intricata*, *Lecidea* cf. *atrobrunnea*, *Porpidia crustulata*, *P. flavicunda*, *P. grisea*, *P. melinodes*, *P. ochrolemma*, *P. rugosa*, *Tremolecia atrata* (thallus).

S Öl Hl Bh Vg Upl Dlr Hls Hlj-TL

N Fi

F V EH PH PK PeP SoL InL

Triebel 1989, Rambold et al. 1990, Roux & Triebel 1994, Santesson 1994b

* **Endococcus protoblasteniae Diederich**

On *Protoblastenia siebenhaariana* (thallus).

S Jmt (Ristafallet 1917 G. O. Malme)

N -

F -

Sérusiaux et al. 1999, Kocourková 2000, Santesson 2001

* **Endococcus pseudocarpus Nyl.**

Discothecium stigma f. *pseudocarpum* (Nyl.) Keissl.

On *Collema multipartitum* (thallus).

S Gtl Vg Upl

N -

F -

von Keissler 1930, Santesson 1949

* **Endococcus rugulosus Nyl. sensu lat.**

Discothecium gemmiferum var. *calcaricolum* auct. p.p.

On *Rhizocarpon amphibium*, *R. badioatrum*, *R. geographicum*, *R. lavatum*, *Rhizocarpon* cf. *reductum*, *Amygdalaria panaeola*, *Aspicilia virginea*, *Ionaspis lacustris*, *I. odora* (thallus).

S Öl Hl Bh Vrm Dlr Ång-Jmt LyL-TL

N Op Ho SF No Tr

F V

Santesson 1986, Triebel 1989, Nordin 2002b

* **Endococcus stigma (Körb.) Stizenb.**

On *Acarospora scabrida* and *Acarospora* sp. (thallus).

S Htj TL

N Op

F -

Triebel 1989, Santesson 1994a

* **Endococcus umbilicariae (Linds.) Hafellner**

Microthelia umbilicariae Linds.

Polycoccum umbilicariae (Linds.) D.Hawksw.

On *Lasallia pustulata* (thallus).

S Srm

N locality not reported, collected before 1869

F A

Lindsay 1869b, Hawksworth & Diederich 1988, Hafellner 2019, Svensson et al. 2020

* **Endococcus verrucisporus Alstrup**

On *Ionaspis lacustris* (thallus).

S -

N NT (Grong 1993 Alstrup)

F -

Alstrup et al. 1994, Alstrup 1997

* **Endococcus verrucosus Hafellner**

On *Aspicilia caesiocinerea* and relatives, *A. grisea*, *Aspicilia* sp. (thallus).

S -

N Op Ho SF

F -

Hafellner 1994b

Enterographa crassa (DC.) Fée

Chiodecton crassum (DC.) Zahlbr.

On bark of *Fagus* and *Fraxinus*, often near the base.

S Sk

N Ho

F -

Almborn 1948, Culberson 1952, Litterski 1992, Arup et al. 1997, Thor & Arvidsson 1999

Enterographa hutchinsiae (Leight.) A.Massal.

Chiodecton hutchinsiae (Leight.) Zahlbr.

On the shaded bases of deciduous trees or on shaded, siliceous, primarily vertical, rocks.

S Sk Bl HI Bh Vg Ög

N Ro Ho

F -

Hulting 1872, Almborn 1942, Coppins & James 1979c, Skjolddal 1982, Jørgensen 1996, Arup et al. 1997, Pleijel et al. 1998, Thor & Arvidsson 1999

Enterographa zonata (Körb.) Källsten ex Torrente & Egea

Opegrapha horistica (Leight.) Stein

Opegrapha zonata Körb.

On vertical or overhanging, shaded, siliceous rock, occasionally on tree bark.

S Sk-Ång (-TL?)

N Ak Op-Te VA-Fi

F V PS Ks InL

Magnusson 1942b, Wirth 1970, Torrente & Egea 1989, Tønsberg 1992b, Tønsberg 1997, Sparrius 2004, Ertz et al. 2009

+Eopyrenula grandicula Coppins

On smooth bark of *Corylus*.

S -

N Ho SF

F -

Coppins et al. 1992, Jørgensen 1996, Blom et al. 2015

Eopyrenula leucoplaca (Wallr.) R.C.Harris

Porina chiomela (Norman) Zahlbr.

Pyrenula farrea auct.

Leptosphaeria leucoplaca (Wallr.) Vain.

Pyrenula leucoplaca (Wallr.) Körb.

On bark of deciduous trees.

S Sk-Ång LuL

N Ak Bu-Te Ro SF MR

F V U EH PS

Harris 1973, Thor 1996, Thor & Arvidsson 1999

+Eopyrenula septemseptata Coppins

On *Fraxinus* and *Populus tremula*.

S Gtl

N Ho

F -

Coppins et al. 1992, Jørgensen 1996, Johansson & Hermansson 2000, Blom et al. 2015

Ephebe hispidula (Ach.) Horw.

Ephebeia hispidula (Ach.) Nyl.

Ephebe spinulosa Th.Fr.

On often submerged rocks by streams and rivers.

S Sk Bl Vrm Vsm Dlr-TL

N Øf He-Bu Ho SF No Tr Fi

F V U St-ES PH-PK Kn PeP EnL InL

Magnusson 1951, Elvebakk & Bjerke 2006, Jørgensen 2007e, Ahti et al. 2012

Ephebe lanata (L.) Vain.

Ephebe lapponica Nyl.

Ephebe pubescens auct.

On moist rocks (seepages, inundation zone by streams, etc.).

S Sk-TL

N Øf Ak Bu Te-Fi

F A-ES PH-PK Kn PeP KiL-InL

Jørgensen 2007e, Ahti et al. 2012

Ephebe multispora (E.Dahl) Henssen

Spilonematopsis multispora E.Dahl

On moist rocks.

S Jmt LyL

N Te

F -

Henssen 1963a, Jørgensen 2007e, Sparrius et al. 2007, Ahti et al. 2012

Ephebe perspinulosa Nyl.

Ephebe trachytera (Nyl. ex Vain.) Henssen

Ephebeia trachytera (Vain.) Norrl. & Nyl.

On moderately moist rocks (in woods, seepages, etc.).

S Srm UpI Jmt LuL TL

N MR ST Fi

F EH PH-PK Kn PeP-KiL EnL InL

Henssen 1963a, Jørgensen 2007e, Svensson et al. 2011, Ahti et al. 2012

***Epibryon conductrix (Norman) Nik.Hoffmann & Hafellner**

Stigmidium catapyrenii Cl.Roux & Triebel

Laestadia conductrix (Norman) Sacc.

Plagiostoma conductrix (Norman) Clauzade et al.

Verrucaria conductrix Norman

On Catapyrenium daedaleum (not on Mycobilimbia lurida) (thallus).

S -

N Tr (Tromsø, Norman)

F -

Fries 1865b, Hoffmann & Hafellner 2000

***Epicladonia lapponica Ihlen**

On Pleopsidium chlorophanum (thallus, apothecia).

S LyL LuL TL

N Op

F -

Ihlen & Wedin 2005, Frisch et al. 2020a

***Epicladonia sandstedei (Zopf) D.Hawksw.**

Diplodina sandstedei Zopf

On *Cladonia carneola*, *C. cyanipes*, *C. fimbriata*, *C. ochrochlora*, *C. phyllophora*, *C. pleurota*, *C. pyxidata*, *C. ramulosa*, *C. subulata*, *C. symphyocarpa*, *C. turgida* (thallus).

S ÖI Bh Vg HI TL

N MR No Tr

F Ks

Santesson 1949, Hawksworth 1981b, Alstrup et al. 2008, Frisch et al. 2020a

***Epicladonia simplex D.Hawksw.**

On *Cladonia bacilliformis*, *C. botrytes*.

S Vb Nb LuL

N -

F St SoL

Schöller 1997, Ihlen & Wedin 2006, Zhurbenko & Pino-Bodas 2017

***Epicladonia stenospora (Harm.) D.Hawksw.**

On *Cladonia* sp.

S ÅsL? (Vilhelmina 1970 R. Santesson)

N Op

F PH

Hawksworth 1981b

(*)**Epicoccum nigrum Link**

Epicoccum neglectum Desm.

Epicoccum purpurascens Ehrenb.

On dead *Peltigera didactyla*, *P. canina* (thallus). Ubiquitous saprophyte.

S Vg Upl

N -

F -

Hawksworth 1979a

+**Epigloea renitens (Grummann) Döbbeler**

Norwegian reports refer to *Epigloea soleiformis*.

+**Epigloea soleiformis Döbbeler**

On algal films on soil, bark and rock.

S Upl

N Ro Ho

F -

Skjolddal 1982, Döbbeler 1984, Botnen 1984, Triebel 1989, Jørgensen 1996

***Epigloea urosperma Döbbeler**

On *Placynthiella icmalea* (thallus).

S Vg (Prässebo 1931 H. Magnusson)

N -

F V U EH PK Kn

Döbbeler 1994, Myllys & Launis 2018, Zhurbenko 2021

Epilichen glauconigellus (Nyl.) Hafellner

Lecidea glauconigella Nyl.

Buellia scabrosa var. *cinerascens* Th.Fr.

Lecidea scabrosa f. *cinerascens* (Th.Fr.) Vain.

Terricolous, at first a parasite on *Baeomyces rufus* and *Baeomyces placophyllus*, later an autonomous lichen.

S Sm-TL

N He Op Te ST NT Tr Fi

F V EnL InL

Fries 1860, Hafellner 1979, Ihlen 1998

Epilichen scabrosus (Ach.) Clem.

Buellia scabrosa (Ach.) A.Massal.

Karschia scabrosa (Ach.) Rehm

Terricolous, at first a parasite on *Baeomyces rufus*, *Baeomyces carneus* and *Baeomyces placophyllus*, later an autonomous lichen.

S Sk-TL

N He-Bu Te AA Ho-Fi

F V U St EH PH-PK Kn Ks SoL-InL

Fries 1860, Hafellner 1979, Arvidsson 1985, Ihlen 1998

Erioderma pedicellatum (Hue) P.M.Jørg.

Erioderma boreale Ahlner

Pannaria pedicellata Hue

On twigs of *Picea abies* in shaded, more or less narrow ravines.

S (Vrm)

N NT

F -

In 1947-1963, the locality N. Brattmoviken in Dalby, Värmland was protected by law. Now probably extinct in Sweden.

Ahlner 1948, Ahti & Jørgensen 1971, Jørgensen 1990b, Holien et al. 1995, Holien & Tønsberg 1996, Tønsberg et al. 1996, Jørgensen 1996, Thor & Arvidsson 1999, Jørgensen 2007g, Ahti et al. 2012

***Erythricium aurantiacum (Lasch) D.Hawksw. & A.Henrici**

Illosporium aurantiacum Lasch

Marchandiobasidium aurantiacum Diederich & Schultheis, teleomorph

Marchandiomyces aurantiacus (Lasch) Diederich & Etayo, anamorph

On *Physcia tenella* (thallus).

S Ög Srm Upl

N -

F -

Etayo & Diederich 1996b, Hawksworth & Henrici 2015

Euopsis granatina (Sommerf.) Nyl.

Lecanora granatina Sommerf.

Pyrenopsis granatina (Sommerf.) Nyl.

On acidic rocks.

S Vg-Vrm Dlr Hls Mpd Ång-TL

N Op Ro Ho NT-Fi

F U St EH PK OP-InL

Fries 1860, Forssell 1885b, Eigler 1969, Büdel & Henssen 1988, Jørgensen 2007e

Euopsis pulvinata (Schaer.) Vain.

Pyrenopsis haemalea (Sommerf.) Norrl.

Pyrenopsis macrocarpa Å.E.Dahl

Pyrenopsis pulvinata (Schaer.) Th.Fr.

On soil or acidic rock.

S Vg Srm Dlr Ång Hlj-TL

N He Op Ho-MR? No-Fi

F Kn KiL EnL InL

Forssell 1885a, Jørgensen 2007e

Evernia divaricata (L.) Ach.

Letharia divaricata (L.) Hue

On branches of *Picea* in humid forests (also on *Pinus* and *Juniperus*).

S (Sk Bl) ÖL-Sm Ög Srm-Vb PL LuL

N (Ak) (He) Op Bu NT

F A-Ks

Ahlner 1948, Hermansson et al. 1988, Lommi 1993, Tønsberg et al. 1996, Arup et al. 1997, Thor & Arvidsson 1999, Moberg & Thell 2011b

Evernia illyrica (Zahlbr.) Zahlbr.

Evernia divaricata subsp. *illyrica* Zahlbr.

Letharia illyrica (Zahlbr.) Harm.

On *Picea abies*.

S (Dls) Bäcke par., Regineberg 1919 Bergström

N -

F -

Extinct.

Du Rietz 1926, Degelius 1929, Thor & Arvidsson 1999, Moberg & Thell 2011b

Evernia mesomorpha Nyl.

Letharia mesomorpha (Nyl.) Du Rietz

Evernia thamnodes (Flot.) Arnold

Letharia thamnodes (Flot.) Arnold

On twigs, branches or trunks mainly of conifers, rarely on lignum.

S Vsm Dlr-Hls Ång-Nb LyL LuL TL

N He-Bu Te SF ST

F A-U EK-InL

Ahlner 1948, Oldhammer 1994, Thor & Arvidsson 1999, Moberg & Thell 2011b

Evernia prunastri (L.) Ach.

On bark of trees and shrubs, most abundantly on branches; sometimes lignicolous, rarely saxicolous.

S Sk-TL (rare in the north)

N Øf-Fi

F A-InL

Litterski 1992, Moberg & Thell 2011b

* **Everniicola flexispora D.Hawksw.**

On *Nephroma arcticum* (thallus).

S Sm Vrm Hrg Jmt ÅsL LyL LuL TL

N Op Vf SF ST-Fi

F EnL InL

Hawksworth 1982a, Alstrup & Hawksworth 1990, Santesson 1994a, Santesson 1994b, Suija & Jüriado 2020

Farnoldia dissipabilis (Nyl.) Hertel

Melanolecia dissipabilis (Nyl.) Hertel

Lecidea jurana var. *sublutescens* (Nyl.) Hertel

Lecidea sublutescens Nyl.

Saxicolous.

S -

N "selten in Norwegen""

F -

Poelt & Vězda 1981, Hertel 1983b

Farnoldia hypocrita (A.Massal.) Fröberg

Lecidea emergens Flot.

Lecidea hypocrita A.Massal.

Lecidea lithospersa Zahlbr.

Lecidea lithyriga, sensu Fr., non Ach.

Lecidea ypocrita A.Massal.

On sun-exposed calcareous rocks.

S Öl Gtl Srm TL

N Ak Ho Fi

F V

Fries 1874, Hertel 1970b, Hertel 1973, Hertel 1975c, Fröberg 1989, Hertel 1991, Pykälä 2010a

Farnoldia jurana (Schaer.) Hertel

Lecidea albosuffusa Th.Fr.

Lecidea inferior Nyl.

Lecidea jurana Schaer.

Melanolecia jurana (Schaer.) Hertel

Tremolecia jurana (Schaer.) Hertel

Lecidea petrosa Arnold

Lecidea subvorticosa Nyl.

On calcareous rocks.

S ÖI Gtl Vg-TL

N Ak Te Ro-SF No-Fi

F V ES PS Kn-Ks EnL

Fries 1874, Hertel 1975c, Fröberg 1989

Farnoldia micropsis (A.Massal.) Hertel

Melanolecia micropsis (A.Massal.) Hertel

Lecidea nivalis Anzi

Tremolecia nivalis (Anzi) Hertel

Lecidea rhaetica Hepp ex Th.Fr.

On rocks, mainly calcareous.

S ÅsL TL

N Ho No-Fi

F EnL

Fries 1874, Hertel 1975a, Hertel 1991, Westberg et al. 2016

Felipes leucopellaeus (Ach.) Frisch & G.Thor

Melaspilea associata Norman

Arthonia leucopellaea (Ach.) Almq.

Arthonia marmorata Nyl.

Arthonia melaleuca sensu Malme

On acidic bark, rarely on rock, in shaded and damp sites.

S Sk-Hls

N Øf-Te Ro-No

F A-U St-PH

Almquist 1880, Coppins & James 1978, Sundin & Tehler 1998

Fellhanera bouteillei (Desm.) Vězda

Catillaria bouteillei (Desm.) Zahlbr.

On thin stems of *Vaccinium myrtillus*, leaves of *V. vitis-idaea*, twigs and needles of *Picea abies* and *Abies alba*, rarely on shaded rock.

S Sk ÖI? Sm Bh Vg Ög Srm? Vrm Upl Jmt

N VA

F EH

Santesson 1952, Vězda 1986, Tønsberg 1992b, Arup & Ekman 1994, Nordin 1995, Arup et al. 1997, Thor & Arvidsson 1999

Fellhanera subtilis (Vězda) Diederich & Sérus.

Bacidia subtilis Vězda

On stems of *Vaccinium myrtillus*, rarely also on *Calluna* and *Betula*.

S Sk Öl-Sm Bh-Ög Vrm Vsm Upl Hls Mpd Ång Jmt Vb

N Ak Vf Te ST NT

F V-EK EH ES PS

Vězda 1961a, Diederich 1989, Nordin 1991, Tønsberg 1992b, Arup & Ekman 1994, Harmaja 1995

Fellhanera viridisorediata Aptroot et al.

On branches of *Picea abies* and *Ribes uva-crispa*.

S Sk (N. Mellby 1999 Arup)

N -

F -

Ekman & Arup 2000

Fellhaneropsis almquistiorum S.Ekman

On shaded, acidic to moderately basic rock.

S Vrm Mpd

N Ak

F V

Ekman 2015, Svensson et al. 2017b, Pykälä 2017

Fellhaneropsis myrtillicola (Erichsen) Sérus. & Coppins

Bacidia myrtillicola Erichsen

Fellhanera myrtillicola (Erichsen) Hafellner

Bacidia nitschkeana var. *perpusilloides* Erichsen.

On stems of *Vaccinium myrtillus*, rarely on *Frangula alnus* and *Alnus incana*.

S Sk Sm Bh Vg Vrm Vsm Jmt

N Te

F V EH

Coppins 1983, Arup & Ekman 1994, Sérusiaux 1996, Harmaja 2008

Fellhaneropsis vezdae (Coppins & P.James) Sérus. & Coppins

Bacidia vezdae Coppins & P.James

Fellhanera vezdae (Coppins & P.James) V. Wirth

On bark of deciduous trees, sometimes on bryophytes on bark or on the ground.

S Sk Öl HI Bh Vg

N AA VA

F -

Coppins & James 1978, Diederich 1989, Arup & Ekman 1991b, Sérusiaux 1996, Thor & Arvidsson 1999

***Feltgeniomyces lyxemburgensis Diederich**

On *Lecidella elaeochroma*.

S -

N No

F -

Frisch et al. 2020a

Flavocetraria cucullata (Bellardi) Kärnefelt & A.Thell

Allocetraria cucullata (Bellardi) Randlane & Saag

Cetraria cucullata (Bellardi) Ach.

Nephromopsis cucullata (Bellardi) Divakar et al.

On open, sun-exposed ground, also in thin forests. In low elevations preferably on calcareous soil.

S (Sk) ÖI HI Bh Vg-Dlr Ång-TL (rare in the south)

N Øf-AA Ro-Fi

F A V EP PS KP OP-InL

Kärnefelt & Mattsson 1989, Randlane & Saag 1992, Kärnefelt et al. 1994, Randlane & NA 2011

Flavocetraria nivalis (L.) Kärnefelt & A.Thell

Allocetraria nivalis (L.) Randlane & Saag

Cetraria nivalis (L.) Ach.

Nephromopsis nivalis (L.) Divakar et al.

On open, sun-exposed ground, also in thin forests. In low elevations mainly on calcicolous soil.

S Sk-TL (rare in the south)

N Øf-Fi

F A-St EH EP PS-InL

Kärnefelt & Mattsson 1989, Randlane & Saag 1992, Schipperges et al. 1995, Randlane & NA 2011

Flavoparmelia caperata (L.) Hale

Parmelia caperata (L.) Ach.

Pseudoparmelia caperata (L.) Hale

Parmelia cylisphora (Ach.) Vain.

On trunks of *Salix*, *Alnus*, *Quercus*, etc. and on rock (sometimes overgrowing bryophytes).

S Sk Bl Bh Vg Ög Vsm Jmt

N Øf-Op Vf AA-SF

F U

Jørgensen & Ryvarden 1970, Hale 1976b, Hale 1986a, Arup et al. 1997, Thor & Arvidsson 1999, Ek et al. 2002, Hemberg 2011, Moberg et al. 2011, Larsson 2012

Flavoparmelia soledians (Nyl.) Hale

On more or less smooth bark of deciduous trees.

S Sk Bh

N Ro

F -

Frödén & Thell 2010, Moberg et al. 2011, Larsson 2012, Nygaard & Tønsberg 2015

Flavoplaca arcis (Poelt & Vězda) Arup et al.

Caloplaca arcis (Poelt & Vězda) Arup

On limestone, calcareous stone and concrete on churchyard walls.

S Sk

N -

F -

Arup 2006d, Arup 2006a

Flavoplaca citrina (Hoffm.) Arup et al.

Caloplaca citrina (Hoffm.) Th.Fr.

Caloplaca microphyllina quoad lich. scand., p.p.

On calcareous and siliceous rock, cement, asbestos, bone, roof tiles, also on calcareous ground and bryophytes, rarely on wood.

S Sk-Hls Hrj Jmt ÅsL LuL TL

N Øf-Te Ro Ho SF ST-Fi

F A-U St-EP PS PK KP Kn PeP Ks

Nordin 1972, Arvidsson et al. 1988, Tønsberg 1992b, Wetmore 2001, Arup 2006d, Arup 2006a, Arup et al. 2013

Flavoplaca coronata (Kremp. ex Körb.) Arup et al.

Caloplaca coronata (Kremp. ex Körb) J.Steiner

Not in F, N or S.

Arup et al. 2013

Flavoplaca dichroa (Arup) Arup et al.

Caloplaca coronata auct. scand.

Caloplaca dichroa Arup

On calcareous rocks, concrete and mortar.

S Sk Bl Öl-Sm Vg-Srm Vsm Upl

N No

F A V U

Arup 2006d, Arup 2006a, Arup et al. 2013

Flavoplaca flavocitrina (Nyl.) Arup et al.

Caloplaca flavocitrina (Nyl.) H.Olivier

On calcareous rock, concrete and mortar, and on bark of deciduous trees.

S Sk Bl Gtl Sm-Bh Vg Ög Upl

N Øf Te Ro Ho

F A V U

Arup 2006d, Arup 2006a, Arup et al. 2013

Flavoplaca granulosa (Müll.Arg.) Arup et al.

Caloplaca granulosa (Müll.Arg.) Jatta

Not in F, N or S.

Arup et al. 2013

Flavoplaca havaasii (H.Magn.) Arup et al.

Caloplaca havaasii H.Magn.

Saxicolous, nitrophilous.

S -

N Ho No

F -

Havaas 1954, Nordin 1972, Poelt & Hafellner 1981, Poelt & Türk 1984, Arup 2006b

Flavoplaca limonia (Nimis & Poelt) Arup et al.

Caloplaca limonia Nimis & Poelt

On shaded calcareous rock and mortar.

S Sk

N -

F -

Arup 2011a, Arup et al. 2013

Flavoplaca marina (Wedd.) Arup et al.

Caloplaca lobulata auct., non (Flörke) nec (Sommerf.)

Caloplaca marina (Wedd.) Zahlbr.

Caloplaca obliterated (Pers.) Malm

Caloplaca salina Erichsen

On seashore rocks, in the middle geolitoral zone.

S Bh-Sk-Vb

N Øf Ak Bu Vf AA Ro-Fi

F A-EK St EP OP PeP

Lynge 1928, Nordin 1972, Arup et al. 2013

Flavoplaca microthallina (Wedd.) Arup et al.

Caloplaca irregularis H.Magn.

Caloplaca microthallina (Wedd.) Zahlbr.

On seashore rocks, mainly in the low and middle geolitoral zone.

S Bh-Sk-Gst Ång

N Ho-MR No-Fi

F A-U

Magnusson 1948a, Magnusson 1948a, Nordin 1972, Arup et al. 2013

Flavoplaca oasis (A.Massal.) Arup et al.

Caloplaca aurantiaca f. *oasis* (A.Massal.) Th.Fr.

Caloplaca oasis (A.Massal.) Szatala

On calcareous rocks, concrete and mortar, sometimes parasitic on *Verrucaria* spp.

S Sk Öl-Bh Vg Ög Srm

N Bu Ro

F -

Fries 1871, Nimis & Poelt 1987, Arup 2009a, Arup et al. 2013

Flavoplaca polycarpa (A.Massal.) Arup et al.

Caloplaca polycarpa (A.Massal.) Zahlbr.

Not in F, N or S. Reports from Sweden refer to *Flavoplaca oasis*.

Wirth 1995, Arup et al. 2013

Frigidopyrenia bryospila (Nyl.) Grube

Arthopyrenia bryospila (Nyl.) Arnold

Didymella bryospila (Nyl.) H.Magn.

Collemopsidium bryospilum (Nyl.) Coppins

Pyrenocollema bryospilum (Nyl.) Coppins ex Fox in Fox & Scannell

Thelidium bryospilum (Nyl.) Blomb. & Forssell

Terricolous, on dead bryophytes.

S Htrj LyL TL

N Fi

F EnL

Grube & Hafellner 1990, Fox & Scannell 2000, Grube 2005, Pykälä 2010c

Frutidella caesioatra (Schaer.) Kalb

Lecidea arctica Sommerf.

Lecidea caesioatra Schaer.

Lecidella caesioatra (Schaer.) Kalb

Primarily overgrowing tufts of bryophytes on rock, sometimes directly on rock.

S Srm-TL

N Ak-Bu Te AA Ro-SF ST-Fi

F OP-InL

Fries 1874, Kalb 1994

Frutidella furfuracea (Anzi) M.Westb. & M.Svensson

Lecidea amaurospoda (Anzi) Vain.

Biatora furfuracea Anzi

Lecidea furfuracea (Anzi) Jatta, non Pers., nom. illeg.

Lecidea ostrogothensis Nyl.

Lecidea perobscurans Nyl.

Biatora pullata Norman

Frutidella pullata (Norman) Schmull

Lecidea pullata (Norman) Th.Fr.

On (mostly acidic) bark of trees, shrubs, and shrublets, sometimes on conifer lignum.

S Sm-TL

N Ak-Bu Te-Fi

F V St EH EP PH Kn Ks-EnL

Tønsberg 1992b, Printzen 1995, Jørgensen et al. 2002, Svensson et al. 2017b

**Fusarium peltigerae* Westend.

Report from Sweden in Santesson (1993, p. 85) is incorrect.

Fuscidea arboricola Coppins & Tønsberg

On acidic bark of deciduous trees.

S Sk Hl ÖI Gtl Nrk-Dlr Hls Ång Vb

N Øf-No

F V St-ES PS Kn

Degelius 1982, Tønsberg 1992b

Fuscidea asyndeta (Nyl.) V.Wirth & Vězda

Lecidea asyndeta Nyl.

On siliceous rocks.

S Ång

N VA? MR

F -

Magnusson 1925a, Vainio 1934, Magnusson 1949a

Fuscidea austera (Nyl.) P.James

Fuscidea aggregata (Flot.) V.Wirth & Vězda

Lecidea aggregata (Flot.) H.Magn, non Chevall

Fuscidea aggregatilis (Grumann) V.Wirth & Vězda

Lecidea aggregatilis Grumann

Fuscidea taeniarum (Malme) V.Wirth & Vězda

Lecidea taeniarum Malme

On siliceous rocks.

S Hl Bh Dls Vg Ög Srm Gst Hls

N Ro-ST No

F -

Magnusson 1925a, Magnusson 1935b, Wirth 1972, Inoue 1981a

Fuscidea commixta (H.Magn.) V.Wirth & Vězda

Lecidea caesiopruinosa sensu Th.Fr. p.p.

Lecidea commixta H.Magn.

On overhanging or vertical rocks, etc.

S Sk Bh Vg

N -

F -

Magnusson 1925a, Magnusson 1955

Fuscidea cyathoides (Ach.) V.Wirth & Vězda

Lecidea cyathoides (Ach.) Ach.

Lecidea rivulosa Ach.

Lecidea subrivulosa Vain.

Magnusson 1925a, Hertel 1977a, Hafellner & Türk 2001

Fuscidea cyathoides (Ach.) V.Wirth & Vězda var. corticola (Fr.) Kalb

Fuscidea fagicola (Zschacke) Hafellner & Türk

On bark of deciduous trees.

S Sk-Dls Srm

N Ho NT

F -

Hafellner & Türk 2001

Fuscidea cyathoides (Ach.) V.Wirth & Vězda var. cyathoides

On siliceous rocks, mainly on more or less vertical and shaded surfaces.

S Sk-Vb
N Øf Ak Bu Te-No
F A-U

Fries 1874, Magnusson 1925a, Almborn 1948, Hertel 1977a

Fuscidea cyathoides (Ach.) V.Wirth & Vězda var. soreciata (H.Magn.) Poelt

Lecidea cyathoides var. *soreciata* (H.Magn.) H.Magn.

On siliceous rocks.

S Sk Hl Bh Vg
N Ho
F -

Magnusson 1925a, Poelt & Buschardt 1978

Fuscidea gothoburgensis (H.Magn.) V.Wirth & Vězda

Lecidea gothoburgensis f. *maculosa* H.Magn.

Lecidea gothoburgensis H.Magn.

Biatora maculosa (H.Magn.) Räsänen

Fuscidea maculosa (H.Magn.) Poelt

On siliceous, more or less shaded, vertical or overhanging rocks.

S Gtl Hl-Nrk Vrm Dlr Hls-Jmt Nb ÅsL
N Øf Op-Tr
F V Ks EnL

Magnusson 1925a, Magnusson 1935b, Wirth 1972, Poelt & Vězda 1981

Fuscidea intercincta (Nyl.) Poelt

Aspicilia atlantica (H.Magn.) Räsänen

Fuscidea atlantica (H.Magn.) P.James & Poelt

Lecanora atlantica H.Magn.

Lecanora intercincta Nyl.

On N-facing acidic rocks.

S Bh Vg
N Te VA-MR NT-Tr
F -

Magnusson 1923, Magnusson 1935b, Degelius 1948a, Poelt & Buschardt 1978, Skjolddal 1983, Oberhollenzer & Wirth 1984

Fuscidea kochiana (Hepp) V.Wirth & Vězda

Lecidea coriacella Nyl.

Lecidea kochiana Hepp

On siliceous rock, mainly vertical, N-facing walls.

S Hl Bh Vg Vrm Dlr Jmt
N Bu Vf AA-SF No Fi
F U

Magnusson 1925a, Magnusson 1935a

Fuscidea lightfootii (Sm.) Coppins & P.James

Catillaria lightfootii (Sm.) H.Olivier

On *Malus sylvestris*.

S -

N Ro (Rennesøy 2006 J. I. Johnsen)

F -

Report from Sweden (Bekking & Aptroot 2017) is probably a misidentification.

Tønsberg & Johnsen 2008, Bekking & Aptroot 2017

Fuscidea lygaea (W.Mann) V.Wirth & Vězda

Lecidea lygaea Ach., nom. illeg.

Biatora lygaea W.Mann.

On siliceous rocks, in subalpine and alpine areas.

S HI? Bh

N Ak Ro-SF ST NT

F -

See also *Fuscidea tenebrica*.

Magnusson 1925a, Fryday & Arcadia 2012, Thell et al. 2014

Fuscidea mollis (Wahlenb.) V.Wirth & Vězda

Biatora mollis (Wahlenb.) Arnold

Lecidea mollis (Wahlenb.) Nyl.

Magnusson 1925a, Hertel 1977a

Fuscidea mollis (Wahlenb.) V.Wirth & Vězda var. caesioalbescens (H.Magn.) Clauzade & Cl.Roux

Biatora caesioalbescens (H.Magn.) Räsänen

Lecidea mollis subsp. *caesioalbescens* (H. Magn.) Vain.

On siliceous rocks.

S Upl-LuL

N Te

F PeP Ks InL

Fries 1874, Magnusson 1925a, Hertel 1977a

Fuscidea mollis (Wahlenb.) V.Wirth & Vězda var. mollis

On siliceous rocks.

S Hls Mpd Jmt-TL

N Op Ro Ho MR ST No-Fi

F PeP-KiL EnL InL

Magnusson 1925a, Hertel 1977a

Fuscidea praeruptorum (Du Rietz & H.Magn. in Du Rietz) V.Wirth & Vězda

Toninia caeruleonigricans (Lightf.) Th.Fr.

Lecidea praeruptorum Du Rietz & H.Magn.

On vertical or overhanging siliceous rocks or on bark of deciduous trees or conifers.

S Sk-Upl Gst Hls

N Øf Ak Bu Te-SF ST-No

F A-U St

Magnusson 1925a, Ullrich & Poelt 1968, Skjolddal 1983, Tønsberg 1992b

Fuscidea pusilla Tønsberg

On bark of deciduous trees and conifers, often on branches or twigs.

S ÖI Bh Srm Vrm Upl Dlr Hls Ång LuL

N Øf-No Fi

F V U St-ES PK Kn OP

Tønsberg 1992b, Moberg & Thor 1993

Fuscidea recens (Stirt.) Hertel et al.

Fuscidea curvula (H.Magn.) Hertel

Lecidea curvula H.Magn.

On siliceous rock, sometimes on acidic bark.

S Hl Bh Nrk Vrm Vsm Dlr Gst Hls Ång

N Op Ro-Tr

F -

Magnusson 1954, Hertel 1977a, Poelt & Vězda 1981, Oberhollenzer & Wirth 1984, Brodo 1984b, Oberhollenzer & Wirth 1990, Tønsberg 1992b

Fuscidea tenebrica (Nyl.) V.Wirth & Vězda

Lecidea lygaea sensu Malme, H.Magn. (p.p.) etc.

Lecidea lygaeaoplaca Vain.

Biatora tenebrica (Nyl.) Hav.

Lecidea tenebrica Nyl.

On siliceous, preferably N-facing rocks.

S Sk Hl Bh Vg Upl

N VA-MR

F PeP

Probably conspecific with *Fuscidea lygaea*.

Magnusson 1925a, Magnusson 1935b, Degelius 1939a

Fuscopannaria ahlneri (P.M.Jørg.) P.M.Jørg.

Pannaria ahlneri P.M.Jørg.

On twigs *Picea* in continuously damp sites, rarely on rock.

S (Jmt) LyL PL

N (Op) (ST) NT No Fi

F -

Ahlner 1948, Löfgren & Moberg 1984, Holien & Tønsberg 1996, Tønsberg et al. 1996, Thor & Arvidsson 1999, Jørgensen 2007g, Ahti et al. 2012

Fuscopannaria confusa (P.M.Jørg.) P.M.Jørg.

Pannaria confusa P.M.Jørg.

On trees and rocks in very humid habitats, especially in spruce forests.

S Vrm Dlr Hls Jmt ÅsL LyL LuL

N Op NT

F St PK EnL

Jørgensen 1991, Tønsberg et al. 1996, Thor & Arvidsson 1999, Jørgensen 2007g, Ahti et al. 2012

Fuscopannaria ignobilis (Anzi) P.M.Jørg.

Pannaria brunnea var. *convexa* Vain. ex Hav., nom. nud.

Pannaria ignobilis Anzi

Pannaria servitiana Gyeln.

On bark of deciduous trees.

S -

N VA-No

F -

Jørgensen 1978, Tønsberg et al. 1996, Jørgensen 2007g, Ahti et al. 2012

Fuscopannaria mediterranea (Tav.) P.M.Jørg.

Pannaria mediterranea Tav.

On shaded and often mossy rocks, on bark of deciduous trees, or twigs of *Picea*.

S Sm-Ög Vrm Dlr Mpd Hrj Jmt ÅsL LuL TL

N Øf He-Bu Te Ro-Tr

F V (EH)

Jørgensen 1978, Löfgren & Moberg 1984, Jørgensen 1991, Hultengren et al. 1993, Arup et al. 1997, Thor & Arvidsson 1999, Jørgensen 2007g, Ahti et al. 2012

Fuscopannaria nebulosa (Hoffm.) E.Tripp & Lendemer

Moelleropsis nebulosa (Hoffm.) Gyeln.

Pannaria nebulosa (Hoffm.) Nyl.

On sandy or clayey soil in sunny localities (roadcuts, etc.).

S Sk Sm (Bh) (Vg) Ög (Nrk) (Vrm) Upl (Dlr)

N AA? VA Ho SF

F V

Almborn 1948, Jørgensen 1978, Arup et al. 1997, Thor & Arvidsson 1999, Ekman et al. 2000, Thor 2000, Ahti et al. 2012, Hagström 2012b, Hagström 2014

Fuscopannaria praetermissa (Nyl.) P.M.Jørg.

Pannaria lepidiota (Sommerf.) Th.Fr.

Parmeliella lepidiota (Sommerf.) Vain.

Pannaria praetermissa Nyl.

Parmeliella praetermissa (Nyl.) P.James

On calcareous soil.

S Gtl Bh-Vb ÅsL-TL

N Ak-Fi

F V St-ES PS PK Kn-KiL EnL InL

Albertson 1946, Jørgensen 1978, Jørgensen 2007g, Ahti et al. 2012

Gabura fasciculare (L.) P.M.Jørg.

Collema aggregatum auct.

Collema ascaridosporum (A.Massal.) Degel.

Collema fasciculare (L.) Weber ex F.H.Wigg.

Arctomia fascicularis (L.) Otálora & Wedin

On bark of *Sorbus aucuparia*, *Alnus*, *Fraxinus*, *Acer*, *Populus tremula* or *Salix*, rarely on mossy rocks.

S (Sm) Vrm Jmt LuL

N Te VA-No

F -

Degelius 1954, Arup et al. 1997, Thor & Arvidsson 1999, Jørgensen 2007c, Otálora & Wedin 2013, Magain et al. 2020, Westberg & von Hirschheydt 2020

* **Geltungia associata (Th.Fr.) Alstrup & D.Hawksw.**

Lecidea associata Th.Fr.

Nesolechia associata (Th.Fr.) Sacc. & D.Sacc.

On *Ochrolechia tartarea*, *O. androgyna*, *O. frigida* (thallus).

S Bh Hrj Jmt PL TL

N ST No-Fi

F -

Hawksworth 1983a, Santesson 1988, Alstrup & Hawksworth 1990, Rambold & Triebel 1990, Diederich et al. 2010

Glypholecia scabra (Pers.) Müll.Arg.

Acarospora scabra (Pers.) Th.Fr.

On mica schist and other more or less soft, often calcareous rocks.

S -

N He Op ST Fi

F -

Fries 1871, Magnusson 1935c, Ahlner 1949, Kleiven 1959, Tønsberg et al. 1996

Gomphillus calycioides (Delise ex Duby) Nyl.

On bryophytes on trunks of deciduous trees.

S -

N Ro Ho

F -

Tønsberg & Øvstedal 1982, Hafellner 1984, Nordén & Jordal 2016, Zakeri et al. 2019

Gonohymenia iodopulchra (Croz.) Henssen

Thyrea pulvinata (Schaer.) A.Massal.

Not in F, N or S.

Graphis elegans (Borrer ex Sm.) Ach.

On bark of deciduous trees or *Ilex*, often *Betula*, *Corylus* or *Sorbus*.

S -

N Ro Ho SF

F -

Almborn 1942, Rösberg 1989, Blom et al. 2015

Graphis scripta (L.) Ach.

On smooth bark of deciduous trees.

S Sk-Ång
N Øf-No
F A-OP Ks

Subdivided into four different species by Neuwirth & Aptroot (2011): *Graphis betulina*, *G. macrocarpa*, *G. pulverulenta* and *G. scripta*.

Hillmann & Grumann 1957, Neuwirth & Aptroot 2011

***Graphium apthosae Alstrup & D.Hawksw.**

On *Peltigera apthosa*, *P. canina*, *P. leucophlebia*, *P. rufescens* (thallus).

S Jmt ÅsL TL
N Op No Tr
F V U EH Ks EnL InL

Alstrup & Hawksworth 1990, Kümmerling & Alstrup 1992, Alstrup et al. 2008, Puolasmaa et al. 2012, Suija & Jüriado 2020

Gregorella humida (Kullh.) Lumbsch

Leprocollema europaeum H.Magn.

Lecidea humida (Kullh.) Th.Fr.

Moelleropsis humida (Kullh.) Coppins & P.M.Jørg

On naked, clayey soil.

S Sm Ög Vrm (Upl)
N Te
F V (EH)

Jørgensen 1978, Coppins & James 1984, Lumbsch et al. 2005, Jørgensen 2007a, Ahti et al. 2012, Hagström 2013, Hagström 2014, Hagström 2016, Klepsland 2020

Gyalecta carneola (Ach.) Hellb.

Pachyphiale carneola (Ach.) Arnold

Pachyphiale cornea (With.) Poetsch, misinterpreted name based on *Lichen corneus* With. = *Umbilicaria*

On bark of deciduous trees, often *Fagus* or *Quercus*.

S Sk-Gtl Hl Bh Vg Ög Hvj
N Ak VA-SF
F -

Vězda & Poelt 1974, Laundon 1984a, Arup et al. 1997, Thor & Arvidsson 1999, Baloch et al. 2013b

Gyalecta derivata (Nyl.) H.Olivier

Gyalecta croatica Schuler & Zahlbr.

Gyalecta truncigena var. *croatica* (Schuler & Zahlbr.) Vězda

Gyalecta truncigena var. *derivata* (Nyl.) Boistel

On soft bark of deciduous trees and *Sambucus nigra*.

S Sk Bl Öl Gtl Bh Ög Vrm Gst
N Op Ro Ho ST
F -

Botnen 1984, Arup & Ekman 1991b, Arup & Ekman 1992, Arup et al. 1997, Thor & Arvidsson 1999, Hemberg 2014

Gyalecta erythrozona Lettau

Gyalecta erythrozona Lettau var. erythrozona

On calcareous rocks (slates, etc.).

S Htj-TL
N He Op Ho Tr
F EnL

Lettau 1937a

Gyalecta erythrozona Lettau var. leprosula Vězda

On bryophytes.

S -
N Op
F -

Vězda 1969c

Gyalecta fagicola (Hepp ex Arnold) Kremp.

Lecidea congruella Nyl.

Pachyphiale corticola Lönnr.

Pachyphiale fagicola (Hepp ex Arnold) Zwackh

On bark of deciduous trees and shrubs, rarely on conifers.

S Sk-LuL
N Øf-Op Ho-Fi
F V U St-ES PH PS Kn PeP InL

Lettau 1937b, Vězda & Poelt 1974, Baloch et al. 2013b

Gyalecta flotowii Körb.

On bark of old deciduous trees.

S Sk-Upl
N Øf Ak Bu-Te VA-ST
F A

Almborn 1948, Arvidsson 1986, Arvidsson et al. 1988, Arup et al. 1997, Thor & Arvidsson 1999, Syrjänen et al. 2010

Gyalecta foveolaris (Ach.) Schaer.

On calcareous soil with bryophytes and plant debris.

S Vrm Htj-TL
N Op SF ST No-Fi
F EnL

Lettau 1937a

Gyalecta friesii Flot. ex Körb.

Gyalecta denudata Th.Fr.

Lecidea foveolaris var. *lutea* (denudata) Sommerf.

On soil and bryophytes on the ground, also on *Picea* in deep shade.

S Dlr Jmt Nb ÅsL
N Ak Bu Te Ho SF ST-Fi
F SoL

Thor 1992a, Thor & Arvidsson 1999

Gyalecta geoica (Wahlenb. ex Ach.) Ach.

On calcareous soil and on bryophytes on calcareous rocks.

S BI-TL
N Op Ro-ST No-Fi
F A-U KP Ks EnL

Lettau 1937a

Gyalecta hypoleuca (Ach.) Zahlbr.

Gyalecta gyalectoides (A.Massal.) Lindau

Petractis hypoleuca (Ach.) Vězda

Gyalecta thelotremoides Nyl.

On calcareous rocks.

S Gtl
N Ro
F -

Lettau 1937a, Vězda 1965a, Thor & Arvidsson 1999

Gyalecta incarnata (Th.Fr. & Graewe) Baloch & Lücking

Belonia incarnata Th.Fr. & Graewe

Gongylia incarnata (Th.Fr.) Zahlbr.

Gongylia obducens K.G.W.Lång, nom. nud.

Belonia russula var. *terrigena* (Eitner) Keissl.

On dying or dead bryophytes, often on shaded rocks.

S Vg Nrk Srm (Kvarebo) Vrm Vsm Dlr Hrj Jmt TL
N Ho NT
F Ks

Havaas 1954, Swinscow 1961, Thor & Arvidsson 1999, Hermansson 2008a, Baloch et al. 2013b

Gyalecta jenensis (Batsch) Zahlbr.

Gyalecta cupularis (Hedw.) Schaer.

Peziza jenensis Batsch

On calcareous rocks, slate, etc., rarely on calcareous soil.

S Sk-TL
N Ak-Te Ro-SF ST-Fi
F V U PK Ks

Lettau 1937a

Gyalecta kukriensis (Räsänen) Räsänen

Gyalecta jenensis var. *deminuta* Norman ex Lettau

On siliceous rocks.

S Jmt TL
N ST Fi
F Ks EnL

Räsänen 1927, Vězda 1958, Botnen & Tønsberg 1988

Gyalecta nidarosiensis (Kindt) Baloch & Lücking

Belonia nidarosiensis (Kindt) P.M.Jørg. & Vězda

Microglaena nidarosiensis Kindt

Mainly on damp mica schist overhangs, sometimes on the bark of deciduous trees.

S Gtl

N Ro Ho ST-Tr

F -

Skjolddal 1982, Jørgensen et al. 1983, Botnen 1984, Botnen & Tønsberg 1988, Baloch et al. 2013b, Arup et al. 2014a

Gyalecta ophiospora (Lettau) Baloch & Lücking

Pachyphiale ophiospora Lettau

On bark of deciduous trees, often Sorbus.

S Dlr Hrj Jmt

N Ak? AA SF

F -

Vězda 1958, Vězda & Poelt 1974, Moberg 1997, Baloch et al. 2013b, Klepsland 2020

Gyalecta peziza (Mont.) Anzi

On soil rich in humus, on plant debris and bryophytes.

S Hrj-TL

N He ST NT Tr Fi

F Ks EnL

Lettau 1937a

Gyalecta rhodinula (Nyl.) H.Olivier

Ionaspis rhodinula (Nyl.) Blomb. & Forssell, *Bacidia* sp.?

Lecidea rhodinula Nyl.

On Polyporus.

S -

N -

F EH

Unknown application.

Nylander 1874b

Gyalecta russula (Körb. ex Nyl.) Baloch et al.

Beloniella cinerea Norman

Belonia fennica Vain.

Belonia russula Körb. ex Nyl.

On crystalline schist, gneiss, etc.

S Dls Vrm Dlr Hls-Jmt ÅsL LuL TL

N Op-Vf Ho SF ST-Fi

F Ks

Swinscow 1964, Baloch et al. 2013b

Gyalecta subclausa Anzi

Gyalecta elegantula Müll.Arg.

Gyalecta rosellovirens Nyl.

On calcareous rocks.

S Öl Gtl Ög (Krokek) Srm (Kvarsebo)

N -

F EH

Hulting 1925, Poelt 1969, Fröberg 1989, Thor & Arvidsson 1999

Gyalecta truncigena (Ach.) Hepp

On soft bark of deciduous trees.

S Sk-Gtl Hl-Srm Vrm Vsm Upl Hls

N Ak Op-Te VA-SF ST

F U EH

Arvidsson et al. 1988, Arup et al. 1997, Thor & Arvidsson 1999

Gyalecta ulmi (Sw.) Zahlbr.

Gyalecta rubra (Hoffm.) A.Massal.

On old trunks of Tilia, Ulmus, Quercus, Acer, Fraxinus, etc., rarely on calcareous rock or dolomite.

S Sk-Gst Jmt ÅsL

N Øf-Tr

F A V PK Kn-Ks

Andersson & Appelqvist 1987, Thor 1992a, Arup et al. 1997, Thor & Arvidsson 1999

Gyalidea asteriscus (Anzi) Aptroot & Lücking

Solorinella asteriscus Anzi

Terricolous, on dry calcareous soil.

S -

N Op

F -

Ahlner 1949, Kleiven 1959, Buschardt 1979, Henssen & Lücking 2002, Aptroot & Lücking 2003

Gyalidea diaphana (Körb. ex Nyl.) Vězda

On submerged siliceous rock in streams and on humid places.

S Hrj

N Op Te Ho SF Fi

F KiL

Vězda 1978a, Vězda 1979, Alstrup 1993

Gyalidea fritzei (Stein) Vězda

Gyalecta fritzei Stein

Microglaena gyalectoides Almq., nom. nud.

Gyalecta lecideopsis var. *fritzei* (Stein) Vězda

Gyalecta lecideopsis auct., non A.Massal.

Lopadium microglaenoides Th.Fr., nom. nud.

On rocks in streams, etc., in the inundation zone.

S Hrj Jmt LyL TL

N SF MR No

F Ks

Magnusson 1948a, Vězda 1966b, Vězda 1979, Botnen & Tønsberg 1988, Pykälä 2013

Gyalidea lecideopsis (A.Massal.) Lettau

On slightly calcareous schist.

S TL

N No (Graddiselva 1983 Söchting)

F -

Söchting & Alstrup 1986, Westberg et al. 2016

Gyalidea polyspora R.Sant.

On cupriferous rock.

S Hrj Jmt TL

N Op

F -

Vězda & Poelt 1991, Henssen & Lücking 2002, Nordin et al. 2007b, Westberg et al. 2016

Gyalidea praetermissa Foucard & G.Thor

On a boulder in Pinus forest.

S Upl

N -

F -

Foucard & Thor 1996

Gyalidea rivularis (Eitner) Nowak & Tobol.

Gyalidea fritzei var. *rivularis* (Eitner) Vězda

On siliceous rock in the inundation zone at lakes and rivers.

S Hrj Jmt Nb-LuL

N Op

F -

Vězda 1958, Vězda 1966b

Gyalidea roseola (Arnold) Lettau

Gyalecta roseola Arnold

On crystalline schist in humid places.

S Hrj Jmt LuL

N SF

F Ks

Lettau 1937b, Vězda 1966b, Vězda 1979, Thor & Arvidsson 1999, Pykälä 2010b

Gyalidea scutellaris (Bagl. & Carestia) Lettau

Gyalecta arctica Malme

Gyalecta dilabens Th.Fr., nom. nud.

Gyalecta scutellaris Bagl. & Carestia

On bryophytes, plant debris and mineral soil.

S Hj

N ST

F -

Lettau 1937b, Vězda 1966b, Vězda 1979

Gyalidea subscutellaris (Vězda) Vězda

On bryophytes over metal-rich or calcareous soil.

S Gtl Upl Jmt

N -

F -

Svensson et al. 2017b

Gyalideopsis alnicola Noble & Vězda

Not in F, N or S.

Gyalideopsis helvetica van den Boom & Vězda

On *Picea* log in brook.

S Dlr (Transtrand 2004 J. Hermansson)

N ST

F -

van den Boom & Vězda 2000, Hermansson 2008a, Hermansson 2008b, Frisch et al. 2020a

Gyalideopsis muscicola P.James & Vězda

On bryophytes.

S -

N VA Ho MR

F -

Vězda 1972, James 1975, Vězda 1979

Gyalideopsis piceicola (Nyl.) Vězda & Poelt

Gyalideopsis alnicola auct., non Noble & Vězda

On twigs of *Picea abies*.

S Vrm Dlr Hls Jmt ÅsL

N Ak Ho ST-No

F -

Vězda 1979, Tønberg 1988b, Vězda & Poelt 1991, Holien & Tønberg 1996, Hermansson 2008a

Gyalolechia bracteata (Hoffm.) A.Massal.

Caloplaca bracteata f. *alpina* (Th.Fr.) Zahlbr.

Caloplaca bracteata f. *deformis* Erichsen

Fulgensia bracteata (Hoffm.) Räsänen

Fulgensia bracteata subsp. *deformis* (Erichsen) Poelt

Fulgensia bracteata var. *alpina* (Th.Fr.) Räsänen

On bryophytes and on soil on calcareous rocks.

S ÖI Gtl Vg Ög Srm UpI Hrj-TL

N He-Bu Ho MR No-Fi

F A V

Nannfeldt & Du Rietz 1945, Trass 1970, Poelt & Vězda 1977, Poelt & Buschardt 1978, Arup et al. 2013

Gyalolechia desertorum (Tomin) Søchting et al.

Caloplaca desertorum Tomin

Fulgensia desertorum (Tomin) Poelt

On more or less open calcareous soil.

S -

N Op (Vågå 1976 Poelt & Buschardt)

F -

Poelt 1965, Poelt & Buschardt 1978, Arup et al. 2013

Gyalolechia flavorubescens (Huds.) Søchting et al.

Caloplaca aurantiaca (Lightf.) Th.Fr.

Callopisma aurantiacum (Lightf.) Körber

Caloplaca flavorubescens (Huds.) J.R.Laundon

On bark of *Populus tremula*, more rarely on other trees, rarely on wood.

S Sk-Nb ÅsL LuL

N Øf-AA Ro-Fi

F A-Ks SoL InL

Fries 1871, Arup et al. 2013

Gyalolechia flavovirescens (Wulfen) Søchting et al.

Caloplaca aurantiaca var. *inalpina* (Ach.) H.Magn.

Caloplaca erythrella (Ach.) Kieff.

Caloplaca flavorubescens subsp. *flavovirescens* (Wulfen) Clauzade & Cl.Roux

Caloplaca flavovirescens (Wulfen) Dalla Torre & Sarnth.

On (mainly calcareous) rocks, also on mortar, etc.

S Sk-TL

N Ak-Bu AA Ro-SF ST-Fi

F V St EH OP-Ks EnL

Fries 1871, Santesson 1970, Laundon 1976, Giralt et al. 1992, Arup et al. 2013

Gyalolechia fulgens (Sw.) Söchting et al.

Caloplaca fulgens (Sw.) Körb.

Fulgensia fulgens (Sw.) Elenk.

Lecanora fulgens (Sw.) Ach.

On bryophytes and on soil on calcareous rocks.

S ÖI Gtl

N -

F -

Poelt 1965, Poelt & Vězda 1977, Arup et al. 2013, Arup et al. 2013

Gyalolechia xanthostigmoidea (Räsänen) Söchting et al.

Caloplaca epiphyta Lyngé

Caloplaca xanthostigmoidea (Räsänen) Zahlbr.

On dolomite and calcareous rocks and on bryophytes and plant debris.

S Jmt ÅsL PL TL

N Op ST Tr Fi

F -

Poelt & Buschardt 1978, Hansen et al. 1987, Arup 2011a

Gyrophaga gyrocarpa (Flot.) Ertz & Tehler

Opegrapha gyrocarpa Flot.

On vertical or overhanging, shaded, siliceous rock, rarely corticolous.

S Sk-TL

N Øf AK Op Bu AA Ro-SF ST-Fi

F V St PS PK InL

Redinger 1938, Wirth 1970, Tønsberg 1992b

***Gyrophthorus crustulosae (Creveld) Hafellner & Sancho**

Phacopsis crustulosae Creveld

On Umbilicaria crustulosa (apothecia).

S (locality not given)

N Op

F -

Creveld 1981, Hafellner & Sancho 1990

Haematomma ochroleucum (Neck.) J.R.Laundon

Almborn 1955b, Laundon 1970, Laundon 1978, Tønsberg 1992b, Staiger & Kalb 1995

Haematomma ochroleucum (Neck.) J.R.Laundon var. ochroleucum

Haematomma coccineum (Dicks.) Körb.

Haematomma leiphaemum (Ach.) Zopf

On vertical or overhanging, siliceous rock and on old, deciduous trees.

S Sk-Jmt Ång ÅsL LuL

N Øf Ak Op-No

F A-Kn Ks InL

Fries 1871, Almborn 1955b, Laundon 1970, Laundon 1978, Tønsberg 1992b, Staiger & Kalb 1995

Haematomma ochroleucum (Neck.) J.R.Laundon var. porphyrium (Pers.) J.R.Laundon

Haematomma porphyrium (Pers.) Zopf

On vertical or overhanging, siliceous rock and on old, deciduous trees.

S Sk-Jmt Ång ÅsL LuL

N Øf Ak Op-No

F A-Kn Ks InL

Fries 1871, Almborn 1955b, Laundon 1970, Laundon 1978, Tønsberg 1992b, Staiger & Kalb 1995

Halecania alpivaga (Th.Fr.) M.Mayrhofer

Lecania alpivaga Th.Fr.

Lecania thallophila H.Magn.

On calcareous rocks on Physcia and Placynthium.

S Hvj-TL

N Op Ho ST No-Fi

F InL

Magnusson 1952a, Mayrhofer 1987c, Poelt & Mayrhofer 1988, van den Boom & Elix 2005

Halecania ralfsii (Salwey) M.Mayrhofer

Lecania ralfsii (Salwey) A.L.Sm.

On seashore rocks above the Hydropunctaria maura zone.

S Hl Bh Vg

N Ro-SF

F -

Magnusson 1951, Mayrhofer 1987c

Halecania spodomela (Nyl.) M.Mayrhofer

Candelariella spodomela (Nyl.) Zahlbr.

Lecania spodomela (Nyl.) A.L.Sm.

On siliceous rocks.

S Vg Ög

N -

F -

Mayrhofer 1987c, Westberg & Arup 2016

Halecania tornensis (H.Magn.) M.Mayrhofer

Lecania tornensis H.Magn.

On moderately calcareous rocks.

S TL (Jebrenjåkk 1919 Magnusson)

N -

F -

Magnusson 1952a, Mayrhofer 1987c

Halecania viridescens Coppins & P.James

On branches of deciduous shrubs.

S Sk Upl

N Ho SF

F V

Coppins 1989b, Tønsberg 1992b, Ekman & Arup 2000, Pykälä et al. 2017c, von Hirschheydt et al. 2021

***Halospora deminuta (Arnold) Tomas. & Ciff.**

Polyblastia deminuta Arnold

Merismatium deminutum (Arnold) Cl.Roux & Nav.-Ros.

On undetermined lichen on calcareous rock.

S Öl Gtl TL

N -

F V

Magnusson 1952a, Swinscow 1971, Roux et al. 2002, Hafellner 2011

***Halospora discrepans (J.Lahm ex Arnold) Hafellner**

Merismatium discrepans (J.Lahm) Triebel

Polyblastia discrepans J.Lahm

Polyblastia subdiscrepans (Nyl.) Lettau

Verrucaria subdiscrepans Nyl.

On Protoblastenia rupestris, P. incrustans (thallus).

S Öl Gtl

N -

F V

Fröberg 1988, Triebel 1989, Hafellner 2011

***Hawksworthiana peltigericola (D.Hawksw.) U.Braun**

Ramularia peltigericola D.Hawksw.

On Peltigera canina, P. collina, P. didactyla, P. neopolydactyla, P. polydactylon, P. praetextata, P. rufescens (thallus).

S Sm

N -

F V U ES KiL

Hawksworth 1980a, Braun 1988, Puolasmaa et al. 2012

Helocarpon crassipes Th.Fr.

Lecidea crassipes (Th.Fr.) Nyl.

Lecidea crassipes f. *pulverula* Th.Fr.

Micarea crassipes (Th.Fr.) Coppins.

Helocarpon pulverulum (Th.Fr.) Türk & Hafellner

On bryophytes on soil, mainly in alpine and subalpine areas.

S Vrm Dlr Hls-TL

N Op Ro ST NT No? Tr Fi

F V EH PK Ks KiL EnL InL

Fries 1874, Coppins 1983, Jørgensen & Nordin 2009

Henrica melaspora (Taylor) Savić & Tibell

Polyblastia "melanospora", lapsus in Zschacke (1934)

Polyblastia melaspora (Taylor) Zahlbr.

Polyblastia plotocarpa Norman ex Zschacke

Polyblastia scotinospora (Nyl.) Hellb.

On siliceous or slightly calcareous rocks.

S Ög Hrij-TL

N Bu Ro-SF ST No-Fi

F EnL

Magnusson 1952a, Swinscow 1971, Hertel 1977b, Hawksworth 1978a, Degelius 1982, Savić & Tibell 2008b

Henrica theleodes (Sommerf.) Savić et al.

Lecidea crassipes f. *pulverula* Th.Fr.

Polyblastia theleodes (Sommerf.) Th.Fr.

Verrucaria theleodes Sommerf.

On calcareous, humid rocks in open situations, usually along rivers or by lakeshores.

S Jmt LyL TL

N Ho SF ST NT No Tr

F Ks

Navarro-Rosinés & Hladun 1992, Savić & Tibell 2008b, Pykälä 2010b

Heppia adglutinata (Kremp.) A.Massal.

Heppia virescens (Mont.) Nyl.

On calcareous soil and rocks.

S Gtl

N Ak

F -

Henssen 1994, Westberg & Fröberg 2004, Jørgensen 2007d, Ahti et al. 2012, Odelvik & Westberg 2015, Klepsland 2020

Heppia despreauxii (Mont.) Tuck.

Heppia gigantea Egea & Llimona

Not in F, N or S.

Heppia lutosa (Ach.) Nyl.

On calcareous soil.

S Ö1 (Gtl)

N Op

F V

Pettersson 1946, Albertson 1950, Egea 1989, Henssen 1994, Thor & Arvidsson 1999, Westberg & Fröberg 2004, Jørgensen 2007d, Pykälä 2010b, Ahti et al. 2012

Hertelidea botryosa (Fr.) Printzen & Kantvilas

Lecidea botryosa (Fr.) Th.Fr.

Lecidea glomerulosa Th.Fr., nom. illeg.

Lecidea miscelloides Nyl.

On (often burnt) lignum, primarily of Pinus, sometimes Quercus or Betula.

S Sk-TL

N Øf-Op Te AA SF-Fi

F V St-ES PH-OP Ks SoL-InL

Fries 1874, Printzen & Kantvilas 2004

***Heteroacanthella ellipsospora J.C.Zamora et al.**

On Lecanora carpinea.

S Öl

N -

F -

Ekman et al. 2019a

***Heterocephalacia bachmannii (Diederich & M.S.Christ.) Millanes & Wedin**

Szyzygospora bachmannii Diederich & M.S.Christ.

On Cladonia rangiformis, C. cornuta, C. gracilis, C. coniocraea, C. macroceras, C. macrophylla (thallus).

S Gtl Vg Ög Srm Vrm Upl Mpd Jmt TL

N MR

F U EH PH Ks InL

Diederich 1996, Frisch et al. 2020a

***Heterocephalacia physciacearum (Diederich) Millanes & Wedin**

Szyzygospora physciacearum Diederich

On Physcia dubia, P. tenella (thallus).

S Bl Öl Bh Vg Ög Nrk Srm Vsm Upl

N AA

F A-U EH-EP PS

Diederich 1996, Puolasmaa et al. 2008, Hemberg 2014, Millanes et al. 2014

Heterodermia speciosa (Wulfen) Trevis.

Anaptychia speciosa (Wulfen) A.Massal.

On mossy or naked, more or less calcareous rocks.

S Dlr Gst Hrj Jmt Vb Nb LuL

N Ak-Bu Te Ho SF ST Tr

F V EH ES PK Kn Ks SoL

Tønsberg et al. 1996, Thor & Arvidsson 1999, Moberg 2002d, Jonsson 2003b, Moberg 2004, Norell 2010a, Norell 2010b, Jonsson & Nordin 2012a, Hofton 2020

Heteroplacidium fusculum (Nyl.) Gueidan & Cl.Roux

Verrucaria compacta (A.Massal.) Jatta
Catapyrenium compactum (A.Massal.) R.Sant.
Dermatocarpon compactum (A.Massal.) Blomb. & Forssell
Rhodocarpon compactum (A.Massal.) Lönnr.
Verrucaria fuscula Nyl.
Dermatocarpon insulare (A.Massal.) Mig.
Verrucaria insularis (A.Massal.) Jatta

On calcareous rocks.

S ÖI Gtl Srm

N -

F -

Fröberg 1988, Fröberg 1989, Breuss 1990a, Gueidan et al. 2007, Gueidan et al. 2009

* **Hobsoniopsis santessonii (Lowen & D.Hawksw.) D.Hawksw.**

Hobsonia santessonii Lowen & D.Hawksw.

On *Peltigera scabrosa* (thallus).

S Vrm Dlr Jmt Nb ÅsL TL

N Op Fi

F V U EH PK PeP Ks EnL InL

Lowen et al. 1986, Santesson 1988, Sikaroodi et al. 2001, Puolasmaa et al. 2012

* **Homostegia piggottii (Berk. & Broome) P.Karst.**

Sphaeria homostegia Nyl.

Dothidea piggottii Berk. & Broome

On *Parmelia saxatilis*, *P. omphalodes* (thallus).

S Sk-TL

N Ak VA Ho SF NT Fi

F V-ES PS PK KP Ks InL

Schaechtelin & Werner 1928, Santesson 1984b, Santesson 1986, Alstrup & Ahti 2007

Huilia pseudocrustulata Hertel

Unknown application.

Hydropunctaria amphibia (Clemente) Cl.Roux

Verrucaria amphibia Clemente

Verrucaria symbalana Nyl.

On seashore rocks in the *Hydropunctaria maura* zone.

S -

N Ho

F -

Fletcher 1975b, Klinkenberg 1979, Renobales & Noya 1991

Hydropunctaria aractina (Wahlenb.) Orange

Verrucaria aractina Wahlenb.

On seashore rocks.

S -

N No Tr Fi

F -

Orange 2012

Hydropunctaria maura (Wahlenb.) C.Keller et al.

Verrucaria finnmarkica Zschacke, uncertain synonym

Verrucaria haeyrenii Erichsen

Involucrothele magnussonii Servit

Verrucaria malmei Servit

Verrucaria maura Wahlenb.

Verrucaria scotina Wedd.

Lichen terminalis O.F.Müll.

Verrucaria trachinodes Norman

Verrucaria zschackeana Erichsen

On N-facing or shaded seashore rocks in the lower and middle geolitoral.

S Bh-Sk-Nb

N Øf Ak Bu Vf AA-Fi

F A-St EP OP

Santesson 1939c, Eliasson 1965, Lewis 1965, Gueidan et al. 2009

Hydropunctaria orae Orange

On rock in seepage track near the sea.

S -

N Ro

F -

Klepsland 2020

Hydropunctaria rheitrophila (Zschacke) C.Keller et al.

Verrucaria kernstockii Zschacke

Verrucaria rheitrophila Zschacke

On rocks and boulders in streams with clear water.

S Sk-Dlr

N Ak ST No

F V PeP

Santesson 1939c, Luther 1954, Swinscow 1968, Thüs 2002

Hymenelia arctica (Lyngé) Lutzoni

Ionaspis arctica Lyngé

Ionaspis epulotica var. *arctica* (Lyngé) H.Magn.

On rocks in the inundation zone in rivers and lakes.

S Htrj Jmt ÅsL LyL LuL TL

N MR ST NT

F V Ks

Magnusson 1933, Jørgensen 1989, Lutzoni & Brodo 1995, Elvebakk & Bjerke 2006, Pykälä 2008

Hymenelia carnosula (Arnold) Lutzoni

Ionaspis carnosula (Arnold) Arnold

On calcareous rocks in wet localities.

S Gtl Vg Ög Srm Dlr Hrj LyL

N Tr

F V-EK

Magnusson 1933, Magnusson 1948b, Lutzoni & Brodo 1995

Hymenelia cyanocarpa (Anzi) Lutzoni

Ionaspis cyanocarpa (Anzi) Jatta

On rocks by streams.

S Vrm Hrj-TL

N He No Tr Fi

F -

Magnusson 1933, Lutzoni & Brodo 1995, Elvebakk & Bjerke 2006

Hymenelia epulotica (Ach.) Lutzoni

Ionaspis epulotica (Ach.) Arnold

On calcareous rocks and on dolomite in dry localities.

S ÖI Gtl Dlr

N Ak Ho No

F V Ks

Magnusson 1933, Magnusson 1948b, Lutzoni & Brodo 1995

Hymenelia heteromorpha (Kremp.) Lutzoni

Ionaspis annularis H.Magn.

Ionaspis heteromorpha (Kremp.) Arnold

Ionaspis ochracella (Nyl.) H.Magn.

Ionaspis reducta H.Magn.

Ionaspis rhodopis var. *melanopis* (Sommerf.) Zahlbr.

Ionaspis schismatopis (Nyl.) Hue

On calcareous rocks, dolomite, etc.

S ÖI Gtl Vg Srm Vrm Vsm Upl Dlr Jmt-TL

N Ak ST

F V PeP EnL

Magnusson 1933, Lutzoni & Brodo 1995, Hermansson 2008a, Berglund & Andersson 2008

Hymenelia melanocarpa (Kremp.) Arnold

Ionaspis cyrtaspis auct.

Ionaspis melanocarpa (Kremp.) Arnold

On calcareous rocks.

S ÖI Gtl Srm Upl ÅsL LyL LuL TL

N No Tr

F EnL

Magnusson 1933, Magnusson 1952a, Lutzoni & Brodo 1995, Elvebakk & Bjerke 2006, Pykälä 2010c

Hymenelia prevostii (Duby) Kremp.

Aspicilia prevostii (Duby) Anzi

Ionaspis prevostii (Duby) Arnold

Lecanora prevostii (Duby) Th.Fr.

On calcareous and calcareous rocks.

S Bl? Gtl Vg-TL

N Ak Bu Ro? Ho No-Fi

F EnL

Fries 1871, Eigler 1969, Lutzoni & Brodo 1995, Pykälä 2010c

Hymenelia rhodopis (Sommerf.) Lutzoni

Ionaspis epulotica var. *cinerascens* H.Magn.

Ionaspis epulotica var. *crustosa* H.Magn.

Ionaspis epulotica var. *depauperata* H.Magn.

Ionaspis epulotica var. *rhodopis* H.Magn.

Durietzia gotlandica (Du Rietz) Gyeln.

Heppia gotlandica Du Rietz

Ionaspis ochromicra (Nyl.) Hue, cf. Degelius (1955b)

Ionaspis rhodopis (Sommerf.) Blomb. & Forssell

On calcareous rocks.

S ÖI Gtl Ög Srm Vsm Dlr Hrj ÅsL LyL

N Ak No Fi

F EnL

Magnusson 1933, Pettersson 1946, Degelius 1955b, Jørgensen 1989, Lutzoni & Brodo 1995, Pykälä 2010c

***Hymenobia aporea (Nyl.) D.Hawksw. & O.E.Erikss.**

Hymenobiella aporea (Nyl.) Triebel

Psora aporea Nyl.

Hymenobia insidiosa Nyl.

Arthonia oxyspora Almq.

On *Lecidea lapicida*, *L. plana* (apothecia).

S Mpd Jmt TL

N -

F -

Nylander 1853a, Magnusson 1926a, Triebel 1989, Eriksson 1992

Hyperphyscia adglutinata (Flörke) H.Mayrhofer & Poelt

Physcia adglutinata (Flörke) Nyl.

Physciopsis adglutinata (Flörke) M.Choisy

Physcia elaeina auct., non (Wahlenb.) A.L.Sm.

On bark of solitary trees (mostly deciduous trees, sometimes conifers) in parks, at churches etc.

S Gtl Bh

N Ro Ho

F -

Moberg 1977, Hafellner et al. 1979, Ingelög 1994, Tønsvang et al. 1996, Hultengren & Johansson 1997, Thor & Arvidsson 1999, Moberg 2002e

Hypocnomyce scalaris (Ach.) M.Choisy

Lecidea ostreata (Hoffm.) Schaer.

Lecidea scalaris (Ach.) Ach.

Psora scalaris (Ach ex Lilj.) Hook

Psora scalaris var. *vulgaris* (Th.Fr.) Räsänen

On lignum or bark of deciduous trees and conifers.

S Sk-TL

N Øf-Fi

F A-InL

Timdal 1984a, Schneider 1980

Hypogymnia austerodes (Nyl.) Räsänen

Parmelia austerodes (Nyl.) Nyl.

Parmelia obscurata (Ach.) Bitter, non sensu Bitter

Parmelia obscurata var. *isidiata* (Lyng.) H.Magn.

On acidic tree bark or on soft, calcareous rock.

S Dlr Hrj Jmt ÅsL-TL

N He-Fi

F Ks-InL

Ahlner 1948, Thor & Arvidsson 1999, Westberg et al. 2011a

Hypogymnia bitteri (Lyng.) Ahti

Parmelia bitteri Lyng

Parmelia obscurata auct.

On acidic tree bark, rarely on rock or on lignum.

S Vrm Dlr Hls-TL

N Ak-Fi

F PK-InL

Ahlner 1948, Thor & Arvidsson 1999, Westberg et al. 2011a

Hypogymnia farinacea Zopf

Hypogymnia bitteriana (Zahlbr.) Räsänen

Parmelia bitteriana Zahlbr.

On acidic tree bark, or lignum, rarely on rock.

S Sk-Mpd Ång Vb Nb

N Øf-SF ST-No Fi

F A-PK

Wirth 1987, Westberg et al. 2011a

Hypogymnia hultenii (Degel.) Krog

Cavernularia hultenii Degel.

On twigs of *Picea abies*, rarely on *Betula*, *Sorbus aucuparia*, *Alnus incana*, etc.

S Ång Jmt ÅsL

N Ho-No

F -

Ahlner 1948, Degelius 1952a, Swinscow 1960, Ahti & Henssen 1965, Holien & Tonsberg 1996, Thor & Arvidsson 1999, Printzen & Ekman 2002, Westberg et al. 2011a

Hypogymnia incurvoides Rass.

On acidic bark of deciduous trees, on Picea (often branches) or on shaded rock.

S Vg
N NT
F -

McCune et al. 2007, Westberg et al. 2011a

Hypogymnia physodes (L.) Nyl.

Parmelia physodes (L.) Ach.

On acidic tree bark and lignum, incl. branches and twigs, sometimes, on rock.

S Sk-TL
N Øf-Fi
F A-InL

Westberg et al. 2011a

Hypogymnia subobscura (Vain.) Poelt

Parmelia subobscura Vain.

On bryophyte-covered soil in windy, alpine heaths.

S -
N -
F EnL

Westberg et al. 2011a

Hypogymnia tubulosa (Schaer.) Hav.

Parmelia tubulosa (Schaer.) Bitter

On acidic tree bark and lignum, incl. branches and twigs, sometimes, on rock.

S Sk-TL
N Øf-Fi
F A-InL

Westberg et al. 2011a

Hypogymnia vittata (Ach.) Parrique

Parmelia vittata (Ach.) Nyl.

On shaded rocks, often on bryophytes, in the mountains also on open localities.

S Sm-TL
N Øf-Fi
F A-ES PH-InL

Ingelög et al. 1987, Westberg et al. 2011a

Hypotrachyna afrorevoluta (Krog & Swinscow) Krog & Swinscow

Parmelia afrorevoluta Krog & Swinscow

Parmelinopsis afrorevoluta (Krog & Swinscow) Elix & Hale

On deciduous trees or on rock.

S Sk Hl Bh Vg
N VA-Ho
F -

Krog & Swinscow 1979, Krog & Swinscow 1987, Jørgensen 1996, Elix & Thell 2011a, Hultengren et al. 2011

Hypotrachyna laevigata (Sm.) Hale

Parmelia laevigata (Sm.) Ach.

On shaded, mossy rocks or on bark of deciduous trees in humid situations.

S -

N VA-SF

F -

Degelius 1935, Degelius 1935, Jørgensen & Ryvarden 1970, Tønsberg et al. 1996, Jørgensen 1996, Elix & Thell 2011a, Blom et al. 2015

Hypotrachyna revoluta (Flörke) Hale

Parmelia revoluta Flörke

On bark of deciduous trees, often *Alnus glutinosa*.

S Sk Sm-Bh Vg

N VA-Ho

F -

Almborn 1948, Jørgensen & Ryvarden 1970, Arup et al. 1997, Fritz & Hultengren 1998, Thor & Arvidsson 1999, Elix & Thell 2011a

Hypotrachyna sinuosa (Sm.) Hale

Parmelia sinuosa (Sm.) Ach.

On bark of deciduous trees, often *Alnus glutinosa*.

S -

N Ro Ho

F -

Tønsberg et al. 1996, Jørgensen 1996, Elix & Thell 2011a

Icmadophila ericetorum (L.) Zahlbr.

Icmadophila aeruginosa (Scop.) Trevis.

Icmadophila elveloides (Weber) Hedl. in Hulting

On peat, Sphagnum, decaying wood, etc.

S Sk-TL

N Øf-Fi

F A-InL

Litterski 1992, Ihlen 1995b

***Illosporopsis christiansenii (B.L.Brady & D.Hawksw.) D.Hawksw.**

Hobsonia christiansenii B.L.Brady & D.Hawksw.

On *Physcia aipolia*, *P. adscendens*, *P. stellaris*, *P. tenella*, *Physconia distorta*, *Xanthoria parietina* (thallus).

S Sm Öl Ög Srm Upl Jmt Nb

N ST NT

F V U EH PH KP PeP InL

Lowen et al. 1986, Santesson 1988, Holien 2001, Sikaroodi et al. 2001

***Illosporium carneum Fr.**

Aecidium peltigerae DC.

Illosporium roseum Mart., s. str. non auct.

On *Peltigera canina*, *P. didactyla*, *P. hymenina*, *P. lepidophora*, *P. polydactylon*, *P. rufescens* (thallus).

S Gtl Vg Ög Vrm Upl Hls Hlj-TL

N Ak-Bu ST No Fi

F A-InL

Scholander 1933, Hawksworth 1979a, Santesson 1984b, Santesson 1998, Puolasmaa et al. 2012

Immersaria athroocarpa (Ach.) Rambold & Pietschm.

Amygdalaria athroocarpa (Ach.) Clauzade & Cl.Roux

Lecidea athroocarpa (Ach.) Ach.

Porpidia athroocarpa (Ach.) Hertel & Rambold

On siliceous rock, facultatively parasitic on other lichens.

S Sm-Dlr

N Op Bu Ro-MR No Fi

F V

Fries 1874, Hertel 1977a, Rambold 1989

Imshaugia aleurites (Ach.) S.L.F.Mey.

Cetraria aleurites (Ach.) Th.Fr.

Parmeliopsis aleurites (Ach.) Nyl.

Parmeliopsis pallescens (Hoffm.) Zahlbr.

On acidic bark or lignum, rarely on rock.

S Sk-TL

N Øf-Fi

F A-InL

Meyer 1985, Moberg & Thell 2011c

Inoderma byssaceum (Weigel) Gray

Arthonia byssacea (Weigel) Almq.

Mainly on rough bark of old *Quercus*, occasionally on other deciduous trees.

S Sk-Gst

N Vf Te

F A

Almqvist 1880, Almborn 1948, Arup et al. 1997, Sundin & Tehler 1998, Thor & Arvidsson 1999

***Intralichen christiansenii (D.Hawksw.) D.Hawksw. & M.S.Cole**

Bispora christiansenii D.Hawksw.

On *Caloplaca* sp., *Bacidina chlorotricula*, *Lecanora chlorotera*, *Lecidea* sp., *Physcia adscendens* (apothecia).

S Öl Gtl Vrm Upl ÅsL LuL TL

N Op SF

F PeP

Hawksworth 1979a, Hawksworth & Cole 2002

* **Intralichen lichenicola (M.S.Christ. & D.Hawksw.) D.Hawksw. & M.S.Cole**

Trimmatostroma lichenicola M.S.Christ. & D.Hawksw. in Hawksworth

On *Stereocaulon cumulatum*, *Strangospora pinicola*, *Protoblastenia cf. calva*, *Lecanora symmicta*, *Candelariella aurella* (apothecia).

S Öl Gtl Ög Upl Hrj

N Op Fi

F -

Hawksworth 1979a, Øvstedal 1986, Alstrup & Søchting 1986, Santesson 1998, Hawksworth & Cole 2002

* **Intralichen lichenum (Diederich) D.Hawksw. & M.S.Cole**

Bispora lichenum Diederich

On *Candelariella vitellina*, *Melanelia stygia*, *Myxobilimbia lobulata* (apothecia).

S -

N Tr

F -

Hawksworth & Cole 2002, Alstrup et al. 2008

Involucropyrenium nuriense (Nav.-Ros. & Breuss) Breuss

Not in F, N or S. Material reported as *I. nuriense* belongs to an unknown species.

Pykälä 2010b

Involucropyrenium tremniacense (A.Massal.) Breuss

Catapyrenium tremniacense A.Massal.

On calcareous soil.

S Öl

N -

F -

Moberg et al. 2017

Involucropyrenium waltheri (Kremp.) Breuss

Catapyrenium waltheri (Kremp.) Körb.

Dermatocarpon waltheri (Kremp.) Blomb. & Forssell

Terricolous.

S Hrj

N Op ST

F -

Breuss 1990a, Breuss 1996b

Ionaspis ceracea (Arnold) Jatta

Aspicilia ceracea Arnold

Hymenelia ceracea (Arnold) M.Choisy

Lecanora ceracea (Arnold) Stizenb.

Saxicolous.

S LyL

N Bu

F EnL

Magnusson 1932a, Hafellner & Türk 2001, Pykälä 2010c

Ionaspis granvina Hav. ex P.M.Jørg.

On moist, schistose rocks. A pioneer.

S -

N Ho (Granvin 1949 Havaas)

F -

Jørgensen & Santesson 1989

Ionaspis lacustris (With.) Lutzoni

Lecanora acharii (Westring ex Ach.) Sommerf.

Aspicilia lacustris (With.) Th.Fr.

Hymenelia lacustris (With.) M.Choisy

Lecanora lacustris (With.) Nyl.

On acidic rocks, in the inundation zone on shores of lakes, streams, etc.

S Sk-TL

N VA-Fi

F A-U St-EP PS-KP PeP Ks InL

Fries 1871, Lutzoni & Brodo 1995

Ionaspis obtecta (Vain.) R.Sant.

Aspicilia obtecta (Vain.) Hav.

Hymenelia obtecta (Vain.) Poelt & Vězda

Lecanora obtecta Vain.

On damp rock, pebbles, etc.

S Dls Nrk Vrm-Dlr Hls Ång-Jmt Nb LuL TL

N Ho Fi

F EH Kn PeP-KiL

Havaas 1909, Santesson et al. 2004, Berglund & Andersson 2008

Ionaspis odora (Ach.) Stein

Ionaspis suaveolens (Ach. ex Schaer.) Stein

On siliceous rocks by streams, etc.

S Vg Dlr Hls Hlj-TL

N Bu Ho-MR NT No Fi

F EH PeP InL

Magnusson 1933

Ionaspis suaveolens (Fr.) Th.Fr. ex Stein

Ionaspis chrysophana (Körb.) Stein

On acidic rocks by streams, etc.

S Vrm Vsm Hls Hlj-TL

N Bu Ro-MR NT

F PS Ks

Magnusson 1933, Lutzoni & Brodo 1994, Berglund & Andersson 2008

Ionaspis ventosa P.M.Jørg. & R.Sant.

On acidic rocks in wind-swept mountain summits.

S Htj
N NT
F -

Jørgensen & Santesson 1989, Moberg 1991, Westberg et al. 2016

Jamesiella anastomosans (P.James & Vězda) Lücking et al.

Gyalideopsis anastomosans P.James & Vězda

On acidic bark of trees, shrubs, and shrublets, sometimes on lignum.

S Sk Hl Bh Vg Vrm
N Ro-SF NT
F -

Poelt & Vězda 1977, Skjolddal 1982, Muhr 1987a, Arup & Ekman 1991b, Tønsberg 1992b, Arup et al. 1997, Lücking et al. 2005

Jamesiella scotica (P.James) Lücking, Sérus. & Vězda

On decomposing bryophytes on ultramafic rocks.

S -
N NT
F -

Tønsberg 2018

Japewia aliphatica Malíček et al.

On *Alnus glutinosa* in boreo-nemoral rainforest.

S -
N Ho
F -

Malíček et al. 2020

Japewia subaurifera Muhr & Tønsberg

Lecidea subaurifera Muhr & Tønsberg, nom. nud.

On acidic bark of deciduous and coniferous trees, also lignum.

S Öl Dls Vrm-LuL
N Øf-AA Ho-Tr
F V St-ES Kn OP Ks

Øvstedal 1986, Tønsberg 1990c, Tønsberg 1992b

Japewia tornöensis (Nyl.) Tønsberg

Lecidea frigidella Nyl.

Lecidea tornöensis Nyl.

Mycoblastus tornöensis (Nyl.) R.A. Anderson

On bark, lignum, bryophytes and plant debris, rarely on rock.

S Vrm Dlr Hls-TL
N He-Bu Te AA Ho ST-Fi
F V St-ES PH PK Kn PeP-InL

Fries 1874, Anderson & Carmer 1974, Tønsberg 1990c

***Kalaallia reactiva Alstrup & D.Hawksw.**

On *Ionaspis lacustris* (thallus).

S -

N MR (Smøla 1937 R. Santesson)

F -

Alstrup & Hawksworth 1990, Orange 2002b

***Karschia santessonii Hafellner**

On *Porpidia ochrolemma*, *P. rugosa* (thallus).

S Jmt TL

N No

F -

Hafellner 1979, Santesson 1988, Triebel 1989

***Karschia talcophila (Ach.) Körb.**

Lecidea talcophila Ach.

On *Diploschistes scruposus* (thallus).

S Bh Upl

N -

F St EH

Hafellner 1979

Kiliasia athallina (Hepp) Hafellner

Catillaria crustacea Arnold

Catillaria athallina (Hepp) Hellb.

Catinaria athallina (Hepp) Lyngø

Toninia athallina (Hepp) Timdal

On calcareous rock.

S Öl Vg Nrk LyL LuL

N Ho No Tr

F U? PeP

Hellbom 1871a, Kilias 1981, Timdal 1991, Kistenich et al. 2018

***Kiliasia episema (Nyl.) Hafellner**

Catillaria episema (Nyl.) H.Olivier

Toninia episema (Nyl.) Timdal

Not in F, N or S.

Kiliasia nordlandica (Th.Fr.) Kistenich et al.

Toninia nordlandica Th.Fr.

Toninia subrimulosa (Nyl.) Zahlbr.

On calcareous rock walls, on cyanolichens when young.

S TL

N Op ST No-Fi

F -

Baumgärtner 1979, Timdal 1991, Kistenich et al. 2018

Kiliasia pennina (Schaer.) Kistenich et al.

Lecidea pennina Schaer.

Toninia pennina (Schaer.) Gyeln.

On calcareous rock.

S -

N He Bu

F -

Timdal 1991

Kiliasia philippea (Mont.) Hafellner

Catillaria philippea (Mont.) A.Massal.

Toninia philippea (Mont.) Timdal

Catillaria riparia (Müll.Arg.) Zahlbr.

Kiliasia riparia (Müll.Arg.) Hafellner

On calcareous rock.

S -

N Bu

F -

Kilias 1981, Timdal 1991

Kiliasia sculpturata (H.Magn.) Kistenich et al.

Catillaria sculpturata H.Magn.

Toninia sculpturata (H.Magn.) Timdal

On vertical or overhanging, calcareous rock surfaces.

S -

N Op

F -

Timdal 1991, Timdal & Zhurbenko 1995

Kiliasia tristis (Müll.Arg.) Hafellner

Catillaria subnitida Hellb.

Toninia subnitida (Hellb.) Hafellner & Türk

Catillaria tristis (Müll.Arg.) Arnold

Patellaria tristis Müll.Arg., non *Toninia tristis* (Th.Fr.) Th.Fr

On calcareous rocks.

S Öl Nrk-Upl TL

N Ak SF NT

F V PK EnL

Degelius 1942, Magnusson 1952a, Kilias 1981, Timdal 1991, Hafellner & Türk 2001, Svensson et al. 2017b

***Knufia peltigeræ (Fuckel) Réblová & Unter.**

Acanthostigma peltigeræ (Fuckel) G.Winter

Capronia peltigeræ (Fuckel) D.Hawksw.

Herpotrichiella peltigeræ (Fuckel) D.Hawksw.

On *Peltigera canina*, *P. didactyla*, *P. praetextata*, *P. rufescens* (thallus).

S Htj Jmt

N Te

F V U St-ES PS KP Ks EnL

Hawksworth 1980b, Eriksson & Hawksworth 1987, Puolasmaa et al. 2012, Suija & Jüriado 2020

Koerberiella wimmeriana (Körb.) Stein

Lecanora acceptanda Nyl.

Lecanora acceptanda var. *littoralis* (Vain.) Vain.

Lecanora creatina Norman ex Th.Fr.

Aspicilia leucophyma (Leight.) Hue

Lecanora leucophyma Leight.

Aspicilia littoralis (Vain.) Hue

Pertusaria littoralis Vain.

On rocks (mainly non-calcareous) in humid places.

S Bh-TL

N Øf-Bu Te AA Ro-Fi

F U EH PS PK

Magnusson 1946, Rambold et al. 1990

Lambiella furvella (Nyl. ex Mudd) M.Westb. & Resl

Lecidea furvella Nyl. ex Mudd

Rimularia furvella (Nyl. ex Mudd) Hertel & Rambold

Lecidea spongiosula Nyl.

Parasitic on various lichens on exposed siliceous rocks.

S Sk-TL

N Ak Op AA Ro-MR No-Fi

F A-EH EP PH PK PeP Ks InL

Fries 1874, Hertel 1970a, Hertel & Rambold 1990, Resl et al. 2015

Lambiella fuscosora (Muhr & Tønsberg) M.Westb. & Resl

Rimularia fuscosora Muhr & Tønsberg

On bark of *Alnus incana*, *Betula pubescens* and *Sorbus aucuparia*.

S Nrk Vrm Vb

N Ak-Op NT-Fi

F -

Muhr & Tønsberg 1989, Hertel & Rambold 1990, Moberg 1991, Tønsberg 1992b, Jansson et al. 1994, Resl et al. 2015

Lambiella globulosa (Coppins) M.Westb. & Resl

Rimularia globulosa Coppins

On vertical, iron-rich rock.

S Jmt (Kall 2008 M. Westberg)

N -

F -

Westberg & Svensson 2012, Resl et al. 2015

Lambiella gyrizans (Nyl.) M.Westb. & Resl

Lecidea fuscocinerea auct., non Nyl.

Rimularia gyrizans (Nyl.) Hertel & Rambold

Lecidea somphoterella Vain.

On siliceous rock.

S Gtl Hl Vg Ög Srm Vrm Upl Ång TL

N Ak Ro NT No

F A-U EH-EP PeP

Fries 1874, Hertel & Rambold 1990, Resl et al. 2015

Lambiella impavida (Th.Fr.) M.Westb. & Resl

Lecidea impavida Th.Fr.

Rimularia impavida (Th.Fr.) Hertel & Rambold

Lecidea symplecta H.Magn.

Saxicolous.

S Upl Hlj-TL

N Op AA Ho MR NT No Tr

F -

Fries 1874, Magnusson 1932a, Magnusson 1948a, Magnusson 1952a, Hertel & Rambold 1990, Elvebakk & Bjerke 2006, Resl et al. 2015

Lambiella insularis (Nyl.) T.Sprib.

Lecidea insularis Nyl.

Rimularia insularis (Nyl.) Rambold & Hertel

Lecidea intumescens (Flörke ex Flot.) Nyl.

An obligate parasite on *Lecanora rupicola* (incl. ssp. *subplanata*) and *Lecanora bicincta* on rocks.

S Sk-Hlj

N Ak-Bu AA No

F A-U St EH

Fries 1874, Hertel 1970a, Hertel 1973, Hertel 1985, Hertel & Rambold 1990, Timdal 1991, Spribille et al. 2015

Lambiella psephota (Tuck.) Hertel

Rimularia psephota (Tuck.) Hertel & Rambold

On schist, etc.

S Jmt TL

N Ho

F -

Rambold 1989, Hertel 1991

Lambiella sphacelata (Th.Fr.) M.Westb. & Resl

Lecidea morbifera Vain.

Rimularia sphacelata (Th.Fr.) Hertel & Rambold

Lecidea subflexuosa Nyl.

On bryophytes on the ground.

S Vrm Dlr Jmt LuL

N MR ST No? Tr

F InL

Fries 1874, Havaas 1909, Hertel & Rambold 1990, Resl et al. 2015

Lasallia pustulata (L.) Mérat

Umbilicaria pustulata (L.) Hoffm.

On rocks, often on seepages or at shores of lakes, streams or by the sea.

S Sk-Ång Jmt ÅsL LuL Nb (mainly the lowland)

N Øf-MR NT No Fi (mainly along the coast)

F A-KP

Almborn 1948, Hakulinen 1962b

***Lasiosphaeriopsis pilophori Zhurb. & Triebel**

On *Pilophorus cereolus*, *P. dovrensis* (thallus, cephalodia).

S Vrm LuL TL

N -

F -

Zhurbenko & Triebel 2005

***Lasiosphaeriopsis salisburyi D.Hawksw. & Sivan.**

On *Peltigera canina* (?), *P. leucophlebia*.

S Sk (Lyngsjö 2001 C. Lange)

N -

F PS KiL

Hawksworth 1980b, Puolasmaa et al. 2012

***Lasiosphaeriopsis stereocaulicola (Linds.) O.E.Erikss. & R.Sant.**

Leptosphaeria apocalypta (Rehm ex Arnold) Winter

Xenosphaeria apocalypta Rehm ex Arnold

Sphaeria stereocaulicola Linds.

On *Stereocaulon alpinum*, *S. glareosum*, *S. groenlandicum*, *S. rivulorum* (thallus).

S Hrj Jmt TL

N Op ST No Tr

F -

Santesson 1949, Santesson 1986, Eriksson & Santesson 1986, Alstrup et al. 2008, Alstrup et al. 2008, Frisch et al. 2020a

Lathagrium auriforme (With.) Otálora et al.

Collema auriculatum Hoffm.

Collema auriforme (With.) Coppins & J.R.Laundon

Collema granosum auct.

On calcareous rocks, common on bryophytes but sometimes directly on rock, rarely on other substrates.

S ÖI Gtl Dls Ög

N Ak Op-Te Ro-SF ST-No

F -

Degelius 1954, Laundon 1984a, Jørgensen 2007c, Ahti et al. 2012, Otálora et al. 2014

Lathagrium cristatum (L.) Otálora et al.

Collema cristatum (L.) Weber ex F.H.Wigg.

Collema cristatum (L.) Weber ex F.H.Wigg. var. *cristatum*

Collema cristatum (L.) Weber ex F.H.Wigg. var. *marginale* (Huds.) Degel.

Collema melaenum (Ach.) Ach.

Collema multifidum (Scop.) Rabenh.

On calcareous rocks, dolomite, calcareous schist, etc.

S Sk-TL

N Øf-Te Ro Ho MR-Fi

F A-U PK Ks SoL EnL

Degelius 1954, Jørgensen 2007c, Ahti et al. 2012, Otálora et al. 2014

Lathagrium fuscovirens (With.) Otálora et al.

Collema furvum (Ach.) DC.

Collema fuscovirens (With.) J.R.Laundon

Collema tuniforme (Ach.) Ach., "tunaeforme"

On calcareous rocks, also on dolomite or calcareous schists.

S ÖI Gtl Sm Dls-TL

N Øf-Te VA Ro-Fi

F A-U EH ES PH-EnL

Degelius 1954, Laundon 1984a, Jørgensen 2007c, Ahti et al. 2012, Otálora et al. 2014

Lathagrium undulatum (Flot.) Otálora et al.

Collema undulatum Laurer ex Flot.

On calcareous rocks, dolomite, calcareous schists, calcareous soil, etc.

S ÖI Gtl Vsm-Dlr Hrj-TL

N Ak Op Bu Te MR-Fi

F Ks

Degelius accepts 2 varieties; var. *undulatum* and var. *granulosum* Degel.

Degelius 1954, Jørgensen 2007c, Pykälä 2010b, Ahti et al. 2012, Otálora et al. 2014

Lecanactis abietina (Ach.) Körb.

Schismatomma abietinum (Ach.) A.Massal, non (Humb.) Almq

Lichen abietinus Ach.

Lichen amphibolus Ach.

Pyrenotheca leucocephala (Ach.) Fr.

Mainly on bark of Picea, sometimes on Quercus, Betula, etc., rarely on lignum, bryophytes or on rock.

S Sk-Jmt

N Øf-Tr

F A-U St-ES PH PK

Jørgensen & Tønsberg 1988, Egea & Torrente 1994

Lecanactis serpentinicola Räsänen

An unlichenized Trentepohlia sp.

Räsänen 1947

Lecania aipospila (Wahlenb.) Th.Fr.

Lecanora maritima Sommerf.

On seashore rocks.

S Sk HI Bh Vg Srm Upl

N Ro-SF ST No-Fi

F V-EK InL

Fries 1871, Mayrhofer 1988, van den Boom & Brand 2005

Lecania atrynoides M.Knowles

On siliceous rock near the sea.

S Sk Gtl HI

N -

F V

Mayrhofer 1988, van den Boom 1992b, Johansson et al. 2000, van den Boom & Brand 2005, Arup 2006c

Lecania baeomma (Nyl.) P.James & J.R.Laundon

Lecania caesia (W. Johnson) A.L.Sm.

Lecania rupicola (Nyl.) P.James

On shaded, vertical or overhanging rock surfaces, rarely on tree bark.

S -

N Ho ST-No

F -

Botnen & Tønsberg 1988, Mayrhofer 1988, Tønsberg 1992b, Jørgensen 1996

Lecania caeruleorubella (Mudd) M.Mayrhofer

On overhanging, schistose rock.

S Hrj

N Op

F -

Mayrhofer 1988

Lecania croatica (Zahlbr.) Kotlov

On trunks of *Fraxinus excelsior* and *Fagus sylvatica* in humid broad-leaved forests.

S -
N Bu Vf
F -

The Norwegian material is sterile and requires further study.

Frisch et al. 2020a

Lecania cuprea (A.Massal.) van den Boom & Coppins

Bacidia albidocarnea var. *alborubella* (Nyl.) Zahlbr.

Bacidia chlorotica sensu Th.Fr.

Bacidia cuprea (A.Massal.) Lettau

Catillaria herbidula (Nyl.) Hulting sensu Hulting

On calcareous rocks, also on serpentine.

S Gtl Dls Ög Srm ("Ög" Kvarsebo)
N He? Ho
F -

Fries 1874, Hulting 1925, van den Boom 1992b

Lecania cyrtella (Ach.) Th.Fr.

Catillaria graminicola Galløe

Catillaria heterobaphia (Anzi) Lettau

On more or less nutrient-rich bark of deciduous trees.

S Sk-Ång Jmt LyL
N Ak Op Vf Te Ho-ST No Tr
F A-U St-ES PH-PK Kn-KiL InL

Fries 1871, Poelt 1969

Lecania cyrtellina (Nyl.) Sandst.

Lecanora cyrtellina Nyl.

On bark of deciduous trees.

S Sk-Hl Ög-Hls LyL
N Ak AA NT No
F V

Hedlund 1892, Poelt 1969

Lecania dubitans (Nyl.) A.L.Sm.

Lecania dimera (Nyl.) Th.Fr.

Lecanora dimera Nyl.

On bark of of *Populus tremula*, rarely other deciduous trees.

S Sk-Jmt Vb LuL
N Ak Op Bu Ho ST No
F A-U St-Kn

Fries 1871, Poelt 1969

Lecania erysibe (Ach.) Mudd

On calcareous or calcareous rocks, mortar, etc.

S Sk Gtl Hl Bh Vg Upl Hls Hrj

N Op? Bu Ro Ho No

F A-EK EH ES PH PS Kn PeP

Many old reports refer to *Lecania rabenhorstii*.

Fries 1871, Mayrhofer 1988

Lecania furfuracea Vězda

On standing, decaying *Picea abies*.

S -

N -

F PK

Myllys & Launis 2018

Lecania fuscella (Schaer.) A.Massal.

Lecania syringeae (Ach.) Th.Fr.

On somewhat nutrient-rich bark of deciduous trees and shrubs, often *Populus tremula*.

S Sk-Upl Gst Hls Ång

N Ak Vf ST No

F A-U St-PH

Fries 1871, Degelius 1939a

Lecania hutchinsiae (Nyl.) A.L.Sm.

On shaded, slightly basic rock near the sea.

S Sk

N Ro

F V

Mayrhofer 1988, Arup & Ekman 1991b, van den Boom 1992b, Jørgensen 1996

Lecania inundata (Körb.) M.Mayrhofer

On damp calcareous rock.

S Nrk Upl Dlr

N Op

F -

Mayrhofer 1988, van den Boom & Brand 2005, Hermansson 2008a, Svensson et al. 2017b

Lecania koerberiana J.Lahm

On bark of deciduous trees.

S (Sk) Bl-Upl

N SF

F U EH

Fries 1871, Degelius 1939a, Poelt 1969, Klepsland 2020

Lecania naegelii (Hepp) Diederich & van den Boom

Bacidia naegelii (Hepp) Zahlbr.

On bark of deciduous trees and shrubs, rarely on conifers.

S Sk-Ång Jmt
N Ak Ro Ho MR-NT
F V-ES PH Kn

Fries 1874, Ekman 1996

Lecania nylanderiana A.Massal.

On mortar, brick, calcareous rocks, dolomite, etc.

S Srm Jmt TL
N Ho Tr
F EH ES PK Kn Ks EnL

Most old reports refer to *Lecania suavis*.

Fries 1871, Mayrhofer 1988

Lecania olivacella (Nyl.) Zahlbr.

Saxicolous.

S Ög
N Op
F -

Mayrhofer 1988

Lecania prasinoides Elenkin

On bark of seasonally inundated bases of deciduous trees.

S Öl Vsm Hrj Jmt TL
N -
F V

Reese Naesborg 2008, Pykälä 2008

Lecania rabenhorstii (Hepp) Arnold

On calcareous or calcareous usually not sun-exposed rocks.

S Sk-Upl Hls
N Hrd SF No
F V

Mayrhofer 1988, Fröberg 1989, Pykälä 2008

Lecania rufofusca H.Magn.

Unknown application, type specimen missing (Mayrhofer 1988, p. 121).

Magnusson 1952a

Lecania sambucina (Körb.) Arnold

On deciduous trees and shrubs.

S Upl
N -
F A

Reese Naesborg 2008, Syrjänen et al. 2010

Lecania sordida Reese Naesborg

On slate, brick, mortar, etc.

S Bh Vg Upl

N No

F V U

Reese Naesborg 2008, Pykälä 2010a

Lecania suavis (Müll.Arg.) Mig.

Saxicolous.

S Sk-TL

N Tr

F EH

Mayrhofer 1988, Svensson et al. 2017b

Lecania subfuscula (Nyl.) S.Ekman

Bacidia subfuscula (Nyl.) Th.Fr.

Lecidea subfuscula Nyl.

On bryophytes, bark, wood, dead tufts of *Silene acaulis*, etc.

S TL

N Tr Fi

F EH PH

Fries 1874, Magnusson 1952a, Ekman 1996, Elvebakk & Bjerke 2006

Lecania sylvestris (Arnold) Arnold

On calcareous rocks.

S Gtl

N -

F V

Mayrhofer 1988

Lecania turicensis (Hepp) Müll.Arg.

On calcareous rocks.

S Sk Gtl

N -

F -

Mayrhofer 1988, Arup & Ekman 1991b, Johansson et al. 2000

Lecanographa abscondita (Th.Fr.) Egea & Torrente

Lecanactis abscondita (Th.Fr.) Lojka

Opegrapha abscondita Th.Fr.

Opegrapha abscondita f. *dissoluta* Nyl.

Lecanactis takalae Räsänen

On siliceous rocks on overhangs, probably parasitic on different lichens.

S Vg-TL

N Ak-Bu VA-MR Tr Fi

F V St EH PS EnL InL

Magnusson 1952a, Egea & Torrente 1994

Lecanographa amylacea (Ehrh. ex Pers.) Egea & Torrente

Lecanactis amylacea (Pers.) Arnold

Opegrapha amylacea Chevall., nom. illeg.

Lecidea farinosa Stenh.

Lecanactis illecebrosa (Dufour) Fr.

Opegrapha illecebrosa Dufour

Buellia violaceofusca G.Thor & Muhr

On rough bark of old Quercus.

S Sk-Upl

N Ro

F -

The name *Buellia violaceofusca* has been used for the soresiate photomorph of the same mycobiont species (Ertz et al. 2018).

Almborn 1948, Thor & Muhr 1991, Egea & Torrente 1994, Arup et al. 1997, Thor & Arvidsson 1999, Foucard et al. 2002, Gaarder & Tønsberg 2010, Ertz et al. 2018

Lecanographa lyncea (Sm.) Egea & Torrente

Arthonia lyncea (Sm.) Ach.

Lecanactis lyncea (Sm.) Fr.

Opegrapha lyncea (Sm.) Borrer

Spiloma melaleucum Ach.

On rough bark of old Quercus.

S Öl Gtl (HI)

N -

F -

Christiansen et al. 1979, Christiansen et al. 1979, Torrente & Egea 1989, Egea & Torrente 1994, Thor & Arvidsson 1999, Johansson et al. 2004, Hultengren & Stenström 2007

***Lecanographa rinodinae (Vězda) R.Sant.**

Opegrapha rinodinae Vězda

On *Phaeorhiza nimbosa* (thallus).

S -

N ST (Dovre Th. Fries)

F -

Vězda 1969b, Santesson et al. 2004

Lecanora actophila Wedd.

Lecanora halogenia (Th.Fr.) Nyl.

Lecanora quartzina Nyl.

On seashore rocks.

S Bh-Sk-Upl

N Vf AA-ST No Tr Fi

F A-EK

Fries 1871, Magnusson 1932a, Elvebakk & Bjerke 2006

Lecanora aitema (Ach.) Hepp

On acidic bark and lignum, often anthropogenic wood or branches of *Pinus* or *Picea*, and branches of dwarf shrubs such as *Empetrum*.

S Sk-Vb
N AA
F SoL

Fries 1871

Lecanora albella (Pers.) Ach.

Lecanora pallida (Schreb.) Rabenh, non Chevall

On bark of deciduous trees.

S Sk-Ång ÅsL LuL
N Ak-AA Ho SF ST No Tr
F V-EH

Fries 1871, Magnusson 1932b, Poelt & Vězda 1981, Lumbsch et al. 1997

Lecanora albellula (Nyl.) Th.Fr.

Lecidea albellula Nyl.

Biatora detrusa Th.Fr.

Lecanora effusella Hedl.

Lecanora glaucella (Flot.) Nyl.

Lecanora piniperda Körb., nom. illeg.

Lecanora albellula (Nyl.) Th.Fr. var. albellula

On bark or lignum of conifers and deciduous trees, sometimes on anthropogenic wood like fences and barns.

S Sk-TL
N Ak Op ST No-Fi
F V U St-KP OP PeP KiL

Hedlund 1892, Printzen 2001

Lecanora albellula (Nyl.) Th.Fr. var. macroconidiata M.Brand & van den Boom

On *Salix*.

S Vb
N -
F -

van den Boom & Brand 2008

Lecanora allophana Nyl.

Lecanora allophana f. *sorediata* Nyl. ex Vain.

Lecanora mesophana (Nyl.) Nyl.

Lecanora subfusca (L.) Ach., nom. rej.

Lecanora subfusca var. *allophana* Ach.

Lecanora subfusca var. *mesophana* Nyl.

On bark of deciduous trees, often *Populus tremula*.

S Sk-TL

N Øf-AA Ro-Fi

F A-Ks SoL InL

Fries 1871, Magnusson 1932b, Brodo 1984a, Brodo & Vitikainen 1984, Tønsberg 1992b

Lecanora anopta Nyl.

Lecanora attingens (Nyl.) Nyl.

Lignicolous and corticolous.

S Bh-TL

N Ak Op ST Fi

F U EH KP SoL EnL

Hedlund 1892

Lecanora apochroeoides Vain.

On decayed lignum.

S -

N -

F InL (Kultala, Vainio)

Vainio 1883

Lecanora argentata (Ach.) Malme

Lecanora subfusca auct.

Lecanora subfuscata H.Magn.

Lecanora subrugosa Nyl.

On bark of deciduous trees.

S Sk-Nb LuL

N Ak-Fi

F A-EH EP

Magnusson 1932b, Brodo 1984a, Botnen & Tønsberg 1988

Lecanora argopholis (Ach.) Ach.

Schistoplaca argopholis (Ach.) Brusse

Lecanora blyttii (Fr.) Schaer.

Lecanora frustulosa auct., non (Dicks.) Ach.

Lecanora thiodes Spreng.

On siliceous or calcareous rocks, sometimes on plant debris or other lichens (*Psora globifera*, etc.).

S Öl Dls Ög NrK Vrm Dlr-TL

N He-Bu Ho SF ST NT Tr Fi

F St EH PS PK Kn PeP Ks SoL-InL

Fries 1871, Du Rietz 1916, Buschardt 1979, Vänskä 1984

Lecanora atriuscula Nyl.

Unknown application.

Lecanora atromarginata (H.Magn.) Hertel & Rambold

Lecidea atromarginata H.Magn.

On moderately calcareous rock.

S TL

N Ho SF

F -

Magnusson 1931, Alstrup 1986b, Elvebakk & Hertel 1997

Lecanora atosulphurea (Wahlenb.) Ach.

On rocks (sandstone, etc.).

S -

N Ak No-Fi

F EnL InL

Fries 1871, Magnusson 1931, Degelius 1943a

Lecanora bicincta Ramond

Lecanora rupicola var. *bicincta* (Ramond) Clauzade & Cl.Roux

Lecanora sordida var. *bicincta* (Ramond) Th.Fr.

Saxicolous.

S Dlr Hrj Jmt

N Ak Op Ho-ST

F -

Fries 1871, Leuckert & Poelt 1989, Hermansson 2008a

Lecanora boligera (Norman ex Th.Fr.) Hedl.

Lecanora fuscescens var. *boligera* (Norman) H.Magn.

Lecidea fuscescens f. *boligera* Norman ex Th.Fr.

On plant debris, decaying wood, twigs, etc.

S Sm-TL

N He Op ST-Fi

F U St EH PK Ks SoL-InL

Fries 1874, Hedlund 1892, Magnusson 1952a, Hinteregger et al. 1989

Lecanora bormiensis Nyl.

Unknown application.

Lecanora cadubriae (A.Massal.) Hedl.

Biatora admixta Th.Fr.

Lecidea cadubriae (A.Massal.) Nyl.

Lecidea magnussoniana Hertel

Lecidea ramulicola H.Magn., nom. illeg.

On lignum and bark of conifers, rarely *Betula*, sometimes on wooden fences or walls.

S Sk-TL

N Ak-Op AA Ho-Fi

F A-EK EH EP-Ks EnL InL

Fries 1874, Hedlund 1892, Magnusson 1952a, Hertel 1969b, Kalb 1976, Holien & Hilmo 1991

Lecanora caesiosora Poelt

Lecanora soralifera H.Magn., non (Suza) Räsänen

Saxicolous.

S Sk-TL

N He Bu Te AA Ro-SF ST No-Fi

F A-EH EP PS PK Ks EnL InL

Magnusson 1937, Poelt 1966, Brodo et al. 1994

Lecanora campestris (Schaer.) Hue

Lecanora atra var. *expansa* Ach.

Lecanora subfusca var. *campestris* (Schaer.) Rabenh.

On rocks, mainly on vertical surfaces.

S Sk-TL

N Ak Op Ro-SF ST No-Fi

F V EH

Magnusson 1932b, Brodo 1984a, Vitikainen 1989

Lecanora carpinea (L.) Vain.

Lecanora angulosa (Schreb.) Ach.

Lecanora erikssonii H.Magn.

On bark of deciduous trees, sometimes on lignum.

S Sk-Ång Jmt

N Øf-AA Ro-Fi

F A-KiL

Fries 1871, Magnusson 1932b, Lumbsch et al. 1997

Lecanora carpoides Timdal

On the thalli of various Parmeliaceae and Umbilicaria.

S -

N Op Bu Te ST No Tr

F -

Timdal 2001

Lecanora castaneoides H.Magn.

Lecanora erythrophaea H.Magn.

On siliceous rocks, on bryophytes, lichens, etc.

S Jmt LyL LuL TL

N ST

F -

Magnusson 1946, Magnusson 1952a, Poelt 1983b, Nordin 2012

Lecanora cateilea (Ach.) A.Massal.

Lecanora cateilea f. *lividocarpa* Vain.

Lecanora cateilea f. *carneoalbicans* Vain.

Lecanora cateilea f. *pallidotestacea* Vain.

Corticolous or lignicolous.

S Vrm Upl?-LuL

N He Bu ST-Tr

F A-SoL

Fries 1871, Magnusson 1932b, Botnen & Tønsberg 1988, Lumbsch et al. 1997, Guderley & Lumbsch 1999

Lecanora cavicola Creveld

On siliceous rocks in caves and under overhangs.

S Htrj LyL TL

N Op Ho ST Tr

F -

Magnusson 1946, Creveld 1981, Poelt & Leuckert 1984, Elvebakk & Bjerke 2006

Lecanora cenisia Ach.

Lecanora atrynea (Ach.) Nyl.

Lecanora cenisia var. *atrynea* (Ach.) H.Magn.

Lecanora cenisia var. *sublutea* Th.Fr.

Saxicolous.

S Sk-TL

N Øf-Vf Ro-SF ST No-Fi

F A-InL

Fries 1871, Brodo 1984a

Lecanora chlarotera Nyl.

Lecanora crassula H.Magn.

Lecanora rugosa (Nyl.) Nyl, non Ach.

Lecanora rugosella Zahlbr.

On bark of deciduous trees and shrubs, rarely on lignum.

S Sk-TL

N Øf Ak Bu-Te VA-Fi

F A-EP PS Kn PeP

Magnusson 1932b, Brodo 1984a

Lecanora chloroleprosa (Vain.) H.Magn.

Lecanora chlorophaeodes subsp. *chloroleprosa* Vain.

Saxicolous on acidic rocks.

S Sm Nrk Vrm Gst Hls Hlj-TL

N Te Tr Fi

F EH EP PS PK Kn PeP Ks SoL

Magnusson 1952a, Poelt & Buschardt 1978, Andersson et al. 1986

Lecanora chlorophaeodes Nyl.

Lecanora sarcopis f. *saxicola* Nyl.

Saxicolous.

S Sk-TL

N Op AA SF Tr

F A-Ks InL

Hedlund 1892, Magnusson 1924a, Degelius 1939a, Elvebakk & Bjerke 2006

Lecanora cinereofusca H.Magn.

Lecanora degelii T.Schauer & Brodo

Mostly on bark of *Alnus incana*, *Corylus* and *Sorbus aucuparia*, sometimes on other deciduous trees.

S -

N Ho-No

F -

Magnusson 1932b, Brodo 1976, Brodo 1984a, Jørgensen 1996, Holien 1997, Blom et al. 2015

Lecanora circumborealis Brodo & Vitik.

Lecanora coilocarpa auct.

On bark of deciduous trees and conifers, sometimes on lignum.

S Sk-TL

N He Op Vf Te Ro Ho ST-Fi

F A-InL

Magnusson 1932b, Brodo 1984a, Brodo & Vitikainen 1984

Lecanora compallens van Herk & Aptroot

On trunk of *Populus tremula*.

S Öl Ög

N -

F -

Thell et al. 2014, Bekking & Aptroot 2017

Lecanora conferta (Fr.) Grognot

On wall of a cellar.

S Bh (Spekeröd 1955 A.H. Magnusson)

N -

F -

Śliwa 2007b

Lecanora confusa Almb.

On smooth bark, especially on twigs of deciduous trees but also on Pinus, etc.

S Sk-Bh
N Ro Ho ST NT
F -

Almborn 1955b, Laundon 1958

Lecanora conizaeoides Nyl. ex Cromb.

Lecanora pityrea Erichsen

Lecanora pseudovaria Degel., nom. nud.

On wooden fence posts or walls, on bark of trees and shrubs, often on branches and twigs.

S Sk-Ång LuL
N Øf-He Bu-Ho ST
F V U St PS

Magnusson 1930a, Laundon 1958, Ahti 1965, Degelius 1986, Tønsberg 1992b, Wirth 1993, Tønsberg 1997

Lecanora detrusa (Th.Fr.) Vain.

Biatora detrusa Th.Fr.

Lecanora piniperda f. *detrusa* (Th.Fr.) Hedl.

On stumps of *Quercus*.

S Sm
N -
F V U EH

Fries 1863, Hedlund 1892

Lecanora discoënsis Lynge

On calcareous schist.

S TL (Björkliden, Alstrup)
N -
F -

Lynge 1937, Alstrup 1986b

Lecanora dovrensis Hedl.

Lignicolous.

S -
N ST
F -

Uncertain status.

Hedlund 1892, Jørgensen & Nordin 2009

Lecanora epanora (Ach.) Ach.

On rocks more or less rich in iron, mainly on vertical or overhanging rocks.

S Sm-TL
N Ak-Bu Te AA Ro-SF ST-Fi
F PH PK

Fries 1871, Poelt & Ullrich 1964, Timdal 1987a, Timdal 1987a

Lecanora epibryon (Ach.) Ach.

Lecanora subfusca var. *hypnorum* (Wulfen) Schaer.

On dead bryophytes or plant debris, mainly on calcareous ground.

S ÖI Gtl Htj-TL

N He Op Te Ho MR-Fi

F V Ks EnL

Fries 1871, Magnusson 1932b, Kofler 1956, Brodo 1984a

Lecanora epithallina H.Magn.

On Vestergrenopsis isidiata on rocks.

S LuL TL

N -

F -

Magnusson 1952a

Lecanora erysibantha Nyl.

Unknown application.

Lecanora excludens Malme

On bark of *Alnus incana* and on lignum.

S Mpd Jmt

N -

F -

Magnusson 1932b, Malme 1914b

Lecanora expallens Ach.

Lecidea conizaea (Ach.) Nyl.

Lecidea soraliata Vain.

On bark of deciduous trees, sometimes on conifers, rarely on lignum.

S Sk-Hls

N Øf-Tr

F A-EH ES? PH PS Kn PeP

Magnusson 1927, Almborn 1948, Laundon 1958, Skjolddal 1982, Tønsberg 1992b

Lecanora exspersa Nyl.

Lecanora raesaenenii Gyeln.

Lecanora soreliata (Räsänen ex Vain.) Räsänen

On anthropogenic wood and on bark of *Sorbus aucuparia*.

S -

N -

F V EH PH PS PeP

Nylander 1875a, Poelt & Vězda 1981

Lecanora farinaria Borrer

On acidic bark of trees and shrubs in damp sites.

S Vg Upl

N He Bu Te AA Ro-No

F -

Tønsberg 1992b, Tønsberg 1998, von Hirschheydt et al. 2021

Lecanora flavoleprosa Tønsberg

On bark of *Alnus incana* and *Tilia*.

S Gst
N SF
F -

Tønsberg 1992b, Jørgensen 1996, Nordin & Hermansson 1999

Lecanora flotoviana Spreng.

Not in F, N or S.

Lecanora formosa (Bagl. & Carestia) Knoph & Leuckert

Lecidella bullata auct., non Korb.

Lecidea formosa Bagl. & Carestia

Biatora mesotropiza (Nyl.) Räsänen

Lecidea mesotropiza (Nyl.) Hellb.

Lecidea nansenii Lynge

Lecidea nuoljae H.Magn.

Lecidea subdita Nyl.

Lecidea tuberculifera H.Magn.

On crystalline schist etc., often under overhangs.

S Vrm Ång LyL TL
N Op Ho ST NT Fi
F EnL? InL

Fries 1874, Magnusson 1946, Magnusson 1952a, Hertel 1968, Hertel 1975b, Hertel 1977a, Hertel 1981b, Knoph & Leuckert 2000

Lecanora frustulosa (Dicks.) Ach.

Lecanora frustulosa var. *ludwigii* (Spreng.) Th.Fr.

Lecanora ludwigii (Spreng.) Ach.

On siliceous or calcareous rocks, often on seepages.

S Vg Dls Vrm Dlr Hls Hlj-TL
N Ak-Op Ro-Fi
F EnL

Vänskä 1984, Muhr 1987a

Lecanora fuscescens (Sommerf.) Nyl.

Lecidea fuscescens Sommerf.

On bark of *Betula*, *Alnus*, *Juniperus*, etc., also on lignum and on polypores.

S Vrm Upl-TL
N Ak-Bu Te AA Ho SF ST-Fi
F V U St EP PH PK Kn PeP-KiL EnL InL

Fries 1874, Hedlund 1892, Hinteregger et al. 1989

Lecanora gangaleoides Nyl.

On siliceous, shaded, often vertical rocks.

S Sk Hl Bh Vg Ög Vrm

N VA-SF

F -

Wirth 1972, Brodo 1984a

Lecanora gangaliza Nyl.

Saxicolous.

S TL

N -

F -

Magnusson 1952a

Lecanora gisleriana Müll.Arg.

Lecanora gisleri Poelt & Ullrich

Parasitic on the saxicolous *Lecanora epanora* and *Lecanora handelii*.

S Sm TL

N Op SF

F -

Poelt & Ullrich 1964

Lecanora glabrata (Ach.) Malme

On bark of deciduous trees, primarily *Fagus sylvatica*.

S Sk Bl Sm-Bh Vg Ög

N Ak Vf ST NT

F -

Almborn 1948, Kofler 1956, Brodo 1984a, Arup et al. 1997, Thor & Arvidsson 1999

Lecanora handelii J.Steiner

On iron-rich rock.

S Sm Nrk Srm LuL

N Ak Ho SF

F -

Poelt & Ullrich 1964, Creveld 1981

Lecanora helicopis (Wahlenb.) Ach.

Lecanora kattegattensis H.Magn.

Lecanora prosechoides (Nyl.) H.Olivier

Lecanora prosechoidiza (Nyl.) A.L.Sm.

Lecanora saxorum H.Magn.

On seashore rocks.

S Bh-Sk-Ång

N Øf Vf AA-ST No-Fi

F A-EK EP PeP

Fries 1871, Magnusson 1932a

Lecanora hypopta (Ach.) Vain.

Sphaeria aspegrenii Fr.

Lecidea brachysperma Vain.

Biatora hypopta (Ach.) Räsänen

Lecidea hypopta Ach.

Lecidea hypopta var. *biatorea* (Nyl.) Vain.

Lecidea insequens Nyl.

Lecanora subfusca var. *biatorea* Nyl.

Lignicolous, on wood near water, in humid localities, etc.

S BI-TL

N Ak-Op AA Ho SF ST-No Fi

F A-U St-PK Kn PeP-InL

The lichen referred to by Fries (1871, p. 264) and Vainio (1881, p. 162-164) is probably *Lecanora anopta*.

Fries 1874, Vainio 1881, Vainio 1934

Lecanora hypoptella (Nyl.) Grummann

Lecanora symmictiza (Nyl.) Hedl.

Lecidea symmictiza Nyl.

On bark or lignum of conifers (usually *Pinus*) and *Quercus*, sometimes other trees.

S Sk-LuL

N Op MR Tr Fi

F V U St EH PS PK Ks

Hedlund 1892

Lecanora hypoptoides (Nyl.) Nyl.

Lecidea hypoptoides Nyl.

On bark or lignum of conifers (usually *Pinus*) and *Quercus*, sometimes other trees.

S Gtl Vg Srm-TL

N Op NT No

F U-EH PS PK OP PeP InL

Hedlund 1892, Degelius 1982

Lecanora hypothetica Nyl.

to *Lecanora varia*?

Nylander 1874b

Lecanora impudens Degel.

Lecanora chloropolia (Erichsen) Almb. f. *maculata* Almb.

Pertusaria farinacea H.Magn.

Lecanora maculata (Erichsen) Almb., nom. illeg.

Pertusaria maculata Erichsen, non H.Magn.

Pertusaria sublutescens Malme non Zahlbr., nom. nud.

On bark of deciduous trees.

S Sk Öl Gtl Vg Ög Nrk Srm Upl Dlr Hls Jmt LyL

N Ak-Te Ro SF ST

F -

Degelius 1944a, Degelius 1948a, Brodo 1984a, Tønsberg 1992b, Arup et al. 1997, Thor & Arvidsson 1999

Lecanora inamoena (Th.Fr.) Th.Fr.

On calcareous soil.

S -

N Fi (Mårtensnäs 1857 Th. M. Fries)

F -

Uncertain status.

Fries 1871, Poelt 1958a, Jørgensen & Nordin 2009

Lecanora intricata (Ach.) Ach.

Parmelia intricata Ach

Lecanora mutabilis Sommerf.

On acidic rock, sometimes on dry lignum.

S Sk-TL

N Ak-Bu AA-SF ST No-Fi

F A-InL

Fries 1871, Hedlund 1892, Kurokawa 1962

Lecanora intumescens (Rebent.) Rabenh.

On bark of deciduous trees, often *Fagus sylvatica*.

S Sk-TL

N Øf Ak Vf AA-Fi?

F A-U EH EP

Magnusson 1932b, Kofler 1956, Lumbsch et al. 1997

Lecanora jamesii J.R.Laundon

Incorrectly reported from N.

Lecanora kariana Räsänen

Saxicolous.

S -

N -

F KiL EnL

Kari 1936

Lecanora latro Poelt

On *Miriquidica nigroleprosa* on rocks.

S Htj Jmt TL

N He Op Te SF NT Tr

F -

Poelt 1962, Poelt & Buschardt 1978, Øvstedal 1986, Svensson et al. 2011

***Lecanora lecanoricola (Alstrup et al.) Rambold & Triebel**

Lecidella lecanoricola Alstrup et al.

On *Lecanora cenisia*, *L. campestris* (thallus).

S LyL TL

N Tr

F -

Alstrup & Hawksworth 1990, Rambold & Triebel 1992, Haugan 1994, Westberg et al. 2016

Lecanora leptacina Sommerf.

Lecanora chlorocarpa Vain. nom. nud., uncertain synonym

On bryophytes (*Andreaea* tufts) on rocks in the alpine zone.

S Hrj-TL
N Op Bu Ho-Fi
F EnL InL

Fries 1871, Hedlund 1892

Lecanora leptacinella Nyl.

Lecanora polytrichina sensu Vainio

On dying or dead *Polytrichum*.

S TL
N -
F KiL InL

Obermayer & Poelt 1994, Westberg et al. 2016

Lecanora leptyrodes (Nyl.) G.B.F.Nilsson

Lecanora pycnocarpa H.Magn.

On bark of deciduous trees.

S Sk? ÖI Gtl HI-Ång
N Ak Te VA Ro MR ST-No
F A-KP OP PeP

Magnusson 1932b, Magnusson 1939b, Degelius 1940, Degelius 1956, Lumbsch et al. 1997

Lecanora leucococca Sommerf.

Lecanora polytropia var. *leucococca* (Sommerf.) Th.Fr.

Saxicolous, mainly on siliceous rock.

S Dlr Hrj Jmt LyL LuL TL
N Op SF ST No-Fi
F -

Fries 1860, Fries 1871, Nordin 2002b, Hermansson 2008a

Lecanora lividella Nyl.

On *Phellinus igniarius*.

S -
N -
F Ks

Nylander 1873a

Lecanora lojkaeana Szatala

On overhanging, siliceous rocks.

S Dlr Hrj Jmt LuL
N Øf Op Bu Te Ho SF ST Tr Fi
F -

Poelt 1964, Leuckert & Poelt 1989

Lecanora lygopis Nyl.

Lignicolous.

S -

N -

F EH InL

Nylander 1874a

Lecanora margacea Poelt

On calcareous schist.

S -

N Op

F -

Poelt & Buschardt 1978

Lecanora marginata (Schaer.) Hertel & Rambold

Lecidea areolata Schaer.

Lecidea elata Schaer.

Lecidea elata var. *marginata* (Schaer.) A.Massal.

Lecidea marginata Schaer.

Lecidea shliidenii Räsänen

Lecidea sulphurella Th.Fr.

On more or less calcareous rocks, mainly in alpine and subalpine areas.

S Hrj-TL

N He-Bu Ho ST No-Fi

F PeP EnL InL

Magnusson 1931, Hertel 1967, Leuckert & Hertel 1967, Hertel 1977a, Hertel & Rambold 1985

Lecanora mughicola Nyl.

On lignum.

S Bh Vg Upl Jmt

N Op

F -

Eigler 1969, Wirth 1995, van den Boom & Brand 2008

Lecanora nivescens Nyl.

Unknown application.

Lecanora norvegica Tønsberg

On bark of *Pinus sylvestris*.

S Ög Vsm Upl Hls

N Op Bu

F V EH

Tønsberg 1992b, Tønsberg 1997, Stenroos et al. 2016, Pykälä et al. 2017c

Lecanora orae-frigidae R.Sant.

Lecidea sorediata Lyngé, non Ach.

Lecanora symmicta var. *sorediosa* L.Westman

Lignicolous on old wood at seashores.

S ÖI Upl-Vb

N Tr Fi

F A-U

Lyngé 1928, Ahti et al. 1973, Westman 1973, Brodo & Vänskä 1984

Lecanora orbicularis (Schaer.) Vain.

On an acidic rock in a cave in the alpine region.

S -

N Op (Lom 1949 Ahlner)

F -

Poelt 1958a, Poelt & Vězda 1977, Triebel 1989

Lecanora orosthea (Ach.) Ach.

Lecidea orosthea (Ach.) Ach.

Lecanora sulphurea var. *orosthea* (Ach.) Flagey

On dry, siliceous rock under overhangs.

S Sk-Dlr Hls

N Ak Bu Vf VA-ST No

F A-ES PH PS

Fries 1871, Vainio 1934, Degelius 1945a

Lecanora parisiensis Hue

Unknown application.

Havaas 1935

Lecanora paroptoides Nyl.

Lignicolous.

S -

N Locality not reported.

F U EH PH

Somewhat dubious, perhaps conspecific with *Lecanora hypoptoides*.

Hedlund 1892, Magnusson 1936b

Lecanora paupera (Th.Fr.) Zahlbr.

Lecanora subfusca [unranked] *paupera* Th.Fr., ICN Art. 37.3

On Alnus.

S -

N Tr

F -

Fries 1871, Jørgensen & Nordin 2009

Lecanora phaeostigma (Körb.) Almb.

Biatora flavella Blomb.

Lecidea nitida Sommerf.

Lecanora obscurella (Sommerf.) Hedl.

Lecidea obscurella (Sommerf.) Nyl.

Biatora phaeostigma Körb.

Lecidea tenuicula Nyl.

Mainly on bark of *Picea* and *Pinus*, sometimes on acidic bark of deciduous trees.

S Sk-TL

N Ak Op AA Ho MR ST No-Fi

F A-ES PH-PK Kn PeP-KiL EnL InL

Fries 1874, Hedlund 1892, Santesson 1984a, Printzen 1995

Lecanora poliophaea (Wahlenb.) Ach.

Lecanora spodophaea (Wahlenb.) Ach.

On seashore rock; somewhat ornithocoprophilous.

S Sk Bh

N Ak Ro-Fi

F -

Fries 1871

Lecanora polytropa (Ehrh. ex Hoffm.) Rabenh.

Lecanora polytropa var. *polytropella* (Nyl.) Nyl.

Lecanora polytropella Nyl.

On siliceous rocks, sometimes on dry lignum.

S Sk-TL

N Øf-Bu Te AA Ro-Fi

F A-InL

Fries 1871, Hedlund 1892

Lecanora populicola (DC.) Duby

Lecanora distans (Ach.) Nyl.

On smooth bark of *Populus tremula*.

S Sk-TL

N Øf-He Bu AA Ho SF ST-No Fi

F A-Ks SoL

Magnusson 1932b

Lecanora praesistens Nyl.

Corticolous, on *Salix nigricans*.

S -

N No (Graddiselva 1983 Söchting).

F -

Poelt & Vězda 1981, Söchting & Alstrup 1986

Lecanora pseudodistera Nyl.

Unknown application.

Havaas 1935

Lecanora pseudohypopta Vain.

Lignicolous.

S -
N -
F Kn

Vainio 1883

Lecanora pseudopyopta Vain.

Unknown application.

Lecanora pulicaris (Pers.) Ach.

Lecanora chlarona (Ach.) Nyl.

Lecanora coilocarpa (Ach.) Nyl.

Lecanora pinastri (Schaer.) H.Magn.

Lecanora pulicaris subsp. *pulicaris* f. *pinastri* (Schaer.) Clauzade & Cl.Roux

On bark of conifers and deciduous trees, often branches and twigs, or on lignum.

S Sk-TL
N Øf-Bu AA-Tr
F A-Ks

Magnusson 1932b, Kofler 1956, Brodo 1984a, Brodo & Vitikainen 1984

Lecanora reagens Norman

Rhizocarpon sorediosum sensu Creveld

On rocks, soil and bryophytes, often on steep slopes.

S Dlr Gst Mpd Hrj-LuL TL
N Op Ho SF Tr Fi
F Ks SoL-InL

Fries 1871, Magnusson 1946, Hermansson 2008a

Lecanora retracta H.Magn.

On rock under overhangs.

S Jmt (Handöl 1950 Magnusson)
N -
F -

Magnusson 1951, Thor & Arvidsson 1999

Lecanora rimicola H.Magn.

On seashore rocks.

S Sk Bl Bh Vg Mpd(?)
N SF No Tr
F -

Magnusson 1927, Degelius 1940, Degelius 1948a, Arup & Ekman 1991b, Elvebakk & Bjerke 2006

Lecanora rouxii S.Ekman & Tønsberg

Lepraria flavescens Cl.Roux & Tønsberg

On steep calcareous rocks.

S Gtl

N ST

F -

Johansson et al. 2000, Grube et al. 2004

Lecanora rupicola (L.) Zahlbr.

Lecanora glaucoma (Hoffm.) Ach.

Lecanora sordida (Pers.) Th.Fr.

Fries 1871, Degelius 1943a, Kleiven 1959, Poelt 1964, Leuckert & Poelt 1989

Lecanora rupicola (L.) Zahlbr. subsp. rupicola

On siliceous rock in moderate shade.

S Sk-TL

N Øf-Vf VA-ST No-Fi

F A-PK OP PeP SoL

Fries 1871, Degelius 1943a, Leuckert & Poelt 1989

Lecanora rupicola (L.) Zahlbr. subsp. subplanata (Nyl.) Leuckert & Poelt

Lecanora subplanata Nyl.

Lecanora subradiosa Nyl.

On basic, igneous rock in sun-exposed sites.

S Nrk Dlr

N Vf Ak He Op No

F -

Kleiven 1959, Poelt 1964, Leuckert & Poelt 1989

Lecanora salicicola H.Magn.

On bark of *Alnus*, *Salix*, *Sorbus* and *Betula*.

S Dlr Hls Hrx Jmt LyL

N Op NT No

F -

Magnusson 1939b, Brodo 1984a, Vitikainen 1987, Hinteregger et al. 1989

Lecanora saligna (Schrad.) Zahlbr.

Lecanora effusa var. *sarcopis* (Ach.) Th.Fr.

Lecanora effusa (Hoffm.) Ach.

Lecanora effusa var. *ravida* (Hoffm.) Th.Fr.

Lecanora sarcopis (Ach.) Ach.

On lignum of stumps, fences, etc, and on acidic tree bark, e.g., *Pinus*.

S Sk-TL

N Ak Op Vf Ho No-Fi

F A-SoL InL

Fries 1871, Hedlund 1892

Lecanora sarcopidoides (A.Massal.) A.L.Sm.

Lecanora piniperda subsp. *sarcopidoides* (A. Massal.) Hedl.

Lecidea sarcopisoides (A.Massal.) Ohlert

Lignicolous.

S Vrm Dlr Mpd Hrj

N Ak NT

F U St EH PeP SoL

To *Lecanora subintricata*?

Hedlund 1892, van den Boom & Brand 2008

Lecanora scanica H.Magn.

On decaying wood of *Quercus*.

S Sk Sm Hl Vg UpI

N -

F -

Magnusson 1934

Lecanora septentrionalis H.Magn.

On bark of deciduous trees and shrubs.

S Dlr Hrj-TL

N MR-NT Tr Fi

F Ks

Magnusson 1932b

Lecanora soralifera (Suza) Räsänen

Lecanora intricata var. *soralifera* Suza

On siliceous rock.

S Sk Sm Hl Bh Dls Vg Srm Vrm Dlr Jmt

N Bu Te Ro SF Tr Fi

F -

Magnusson 1927, Magnusson 1949a, Laundon 1960, Poelt & Ullrich 1964

Lecanora stanislai Guzew-Krzeminska et al.

On smooth bark of deciduous trees.

S -

N Bu AA

F -

Guzow-Krzeminska et al. 2017

Lecanora stenotropa Nyl.

On siliceous rock.

S Gst Hrj

N He SF

F U PeP

Nylander 1872, Clauzade & Roux 1985

Lecanora strobilina (Spreng.) Kieff.

On bark of Pinus, Betula, Quercus and Fraxinus (often branches) in semi-open tree stands.

S Öl Gtl
N Bu AA
F -

Wirth 1987, Nordin et al. 1991, LaGreca & Lumbsch 2013

Lecanora subaurea Zahlbr.

Lecanora aurea Eitn., non (Schaer.) Schaer. 1850

Lecanora hercynica Poelt & Ullrich

On metal-rich, siliceous rock.

S Sm Ög Vrm Dlr Jmt TL
N SF NT? Fi
F -

Migula 1929, Poelt & Ullrich 1964, Tønsberg 1987, Svensson 2009, Svensson et al. 2011

Lecanora subcarnea (Lilj.) Ach.

Lecanora ochroidea (Ach.) Nyl., uncertain synonym

Lecanora sordida var. *subcarnea* (Lilj.) Th.Fr.

Lecidea subcarnea (Sm.) Ach.

Fries 1871, Degelius 1943a, Dickhäuser et al. 1995

Lecanora subcarnea (Lilj.) Ach. var. soralifera H.Magn.

On siliceous rock.

S Sk Hl Bh Vg Vrm
N Øf VA No
F -

Magnusson 1932a

Lecanora subcarnea (Lilj.) Ach. var. subcarnea

On siliceous vertical and shaded rock.

S Sk-Ång
N Øf Ak Op-Vf AA-Ho Tr
F V

Magnusson 1932a

Lecanora subglomerulosa H.Magn.

On siliceous, sun-exposed rocks.

S Vg (Landvetter 1949 Magnusson)
N -
F -

Magnusson 1951

Lecanora subintricata (Nyl.) Th.Fr.

On bark and lignum of acidic tree bark, also on worked timber.

S Ög-TL
N Ak He Op AA Ho SF No-Fi
F A-KiL EnL InL

Fries 1871, van den Boom & Brand 2008

Lecanora sublivescens (Nyl.) Arnold

Lecidea orosthea var. *sublivescens* Nyl.

Biatora straminea Stenh., non *Lecanora straminea* Ach.!

Lecidea sublivescens (Nyl.) P.James

Lecidea sulphurea f. *straminea* (Stenh.) Hedl.

Lecidea symmicta f. *straminea* (Stenh.) Th.Fr.

On bark of deciduous trees, rarely on *Pinus* or *Juniperus*.

S Sk Bl Sm Öl Gtl Ög Upl

N -

F -

Stenhammar 1847, Arup & Ekman 1991b, Thor & Arvidsson 1999, Hemberg 2014, Hemberg 2014

Lecanora subsaligna M.Brand & van den Boom

On *Acer*.

S -

N SF (M. Brand 2003 Askvoll)

F -

van den Boom & Brand 2008

Lecanora sulphurea (Hoffm.) Ach.

Lecidea circumdiluta Nyl.

Lecidea sulphurea (Hoffm.) Wahlenb.

On sun-exposed siliceous rock; ornithocoprophilous.

S Sk-Upl

N Øf Ak Bu-AA Ro-SF No

F A-ES

Fries 1871, Vainio 1934, Degelius 1945a

Lecanora swartzii (Ach.) Ach.

Lecanora rupicola var. *leucogaea* (Ach.) R.Sant.

Lecanora subradiosa auct. non Nyl.

Lichen swartzii Ach.

Kleiven 1959, Poelt 1964, Leuckert & Poelt 1989, Poelt 1989, Dickhäuser et al. 1995

Lecanora swartzii (Ach.) Ach. subsp. nylanderi (Räsänen) Leuckert & Poelt

Lecanora subradiosa var. *nylanderi* Räsänen

Lecanora unicolor Sommerf.

Saxicolous.

S TL

N No

F ES Ks EnL InL

Leuckert & Poelt 1989, Poelt 1989, Dickhäuser et al. 1995

Lecanora swartzii (Ach.) Ach. subsp. swartzii

On vertical or overhanging, acidic rocks.

S Sm-LyL

N He-Bu Te SF MR No Fi

F A-ES PS Ks EnL InL

Kleiven 1959, Poelt 1964, Leuckert & Poelt 1989

Lecanora symmicta (Ach.) Ach.

Lecanora saepincola (Ach.) Arnold

Lecidea symmicta (Ach.) Ach.

Biatora symmictera (Nyl.) Räsänen

Lecanora symmictera Nyl.

Lecanora trabalis (Ach.) Nyl.

On bark and lignum of acidic tree bark (often on twigs), sometimes worked timber.

S Sk-TL

N Ak-Bu Te AA Ro-Fi

F A-InL

Fries 1871, Hedlund 1892, Vainio 1934, LaGreca & Lumbsch 2013

Lecanora tanaënsis Nyl.

Unknown application.

Lecanora testaceolivida Vain.

On a vertical rock surface.

S TL (Tarfalaälke 1945 Degelius)

N -

F -

Perhaps conspecific with *Lecanora subcarnea*.

Magnusson 1952a

Lecanora umbricolor H.Magn.

On smooth bark of *Salix* and *Alnus incana*.

S LyL

N -

F EH

Magnusson 1946

Lecanora umbrina (Ach.) A.Massal.

Saxicolous, also corticolous and lignicolous.

S Sk-TL

N Op Ho MR ST No

F A-U St-KP PeP EnL

Fries 1871

Lecanora umbrosa Degel.

Ionaspis epulotica var. *macrocarpa* Creveld

Lecanora neglecta (Räsänen) Räsänen

Lecanora sorediifera (Th.Fr.) Räsänen, non Fée

On moderately calcareous, vertical or overhanging rocks.

S Hrj-TL

N Op Bu ST Fi

F EnL

Fries 1871, Degelius 1943a, Magnusson 1946, Poelt & Buschardt 1978, Brodo 1984a, Brodo et al. 1994

Lecanora vacillans H.Magn.

On rock under overhangs.

S Hl Bh Vg Upl

N -

F -

Lumbsch & Guderley 1997, Magnusson 1930b

Lecanora varia (Hoffm.) Ach.

On lignum (incl. worked timber), sometimes on acidic tree bark (often twigs).

S Sk-Ång

N Øf-AA Ro Ho ST-Fi

F A-Ks

Fries 1871, Hedlund 1892

Lecanora verrucosa Ach.

Unknown application.

Lecanora vicaria (Th.Fr.) Vain.

Lecanora rhypariza subsp. *vicaria* Th.Fr.

On rocks or plant debris.

S Hrj Jmt LyL

N -

F Ks

Fries 1871, Poelt 1983b, Nordin 2016

Lecanora viridiatra (Stenh.) Nyl.

Biatora luteoatra (Nyl.) Räsänen

Lecidea luteoatra Nyl.

Lecidea viridiatra (Stenh.) Schaer, non Flörke

On siliceous rocks.

S Sm-Ång Hrj

N Ak Bu Te VA Ho SF NT No

F A-U EP Kn PeP

Fries 1874, Vainio 1934, Fryday & Coppins 2012

Lecanora viridicans Nyl.

Unknown application.

Lecanora viridissima A.Nordin et al.

On bark of Quercus and Fraxinus.

S Gtl

N -

F -

Nordin et al. 1995

Lecanora vrangii Malme

Lecidea vrangii Malme, nom. nud.

Saxicolous.

S Hrj TL

N -

F -

Malme 1937, Magnusson 1952a

Lecidea albofuscescens Nyl.

Biatora albofuscescens (Nyl.) Kullh.

On acidic bark of conifers and deciduous trees.

S Nrk-Ång Jmt

N Ak-Bu Te ST

F V-ES PH-PK Kn

Fries 1874, Vainio 1934, Printzen 1995

Lecidea altissima H.Magn.

On siliceous rocks.

S -

N Op (Galdhøpiggen 1947 Degelius)

F -

Degelius 1948a, Jørgensen & Nordin 2009

Lecidea amphoteroides Vain.

Saxicolous.

S -

N -

F PK

Vainio 1934

Lecidea apochroeella Nyl.

Lignicolous.

S Srm Dlr Hls Ång Jmt

N NT

F U EH PK PeP

Fries 1874, Vainio 1934, Printzen 1995, Holien 2005

Lecidea asserculorum

Nom. non satis nota, see publications cited under *Micarea misella*.

Lecidea atomaria Th.Fr.

On hyperitic rock.

S Dls Vg

N SF

F -

Magnusson 1955, Magnusson 1957, Hertel 1975c, Hertel 1995

Lecidea atrobrunnea (Ramond ex Lam. & DC.) Schaer.

Lecidea pseudassimilis Hertel, nom. provis.

Saxicolous.

S Hrtj-TL

N Op Ho MR Tr Fi

F U EnL

Fries 1874, Vainio 1934, Hertel 1977a, Hertel 1981a, Hertel 1995

Lecidea atrocervina Vain.

On siliceous rocks.

S Locality not reported.

N -

F -

Vainio 1934, Magnusson 1952b

Lecidea auriculata Th.Fr.

Hertel 1995

Lecidea auriculata Th.Fr. subsp. auriculata

On siliceous rock.

S Vrm Hls-TL

N Ak-Bu Ro-Fi

F V PK KP Ks KiL EnL InL

Fries 1874, Hertel 1971a, Hertel 1975c, Hertel 1977a, Hertel 1977c, Schwab 1986

Lecidea auriculata Th.Fr. subsp. brachyspora Th.Fr.

Lecidea brachyspora (Th.Fr.) Nyl.

Saxicolous, mostly on crystalline schist.

S Jmt-TL

N MR ST-Fi

F -

Hertel 1975c, Hertel 1977b, Hertel 1981a, Schwab 1986, Hertel 1991

Lecidea aviaria Vain.

Saxicolous.

S -

N -

F U

To *Schaereria*?

Vainio 1934

Lecidea berengeriana (A.Massal.) Th.Fr.

Biatora berengeriana A.Massal.

Mycobilimbia berengeriana (A.Massal.) Hafellner & V.Wirth

Lecidea cupreiformis (E.Nyl.) Nyl.

Biatora miscella (Sommerf.) Fr.

Lecidea miscella Sommerf., non Ach.

Lecidea vernalis var. *cupreiformis* E.Nyl.

On more or less dead bryophytes and on soil in calcareous areas.

S ÖI Gtl Dls Nrk-TL

N Ak-Op Vf Ro Ho MR ST No-Fi

F V PK KP PeP Ks SoL-InL

Fries 1874, Vainio 1934, Wirth 1987

Lecidea betulicola (Kullh.) H.Magn.

Biatora betulicola Kullh.

Lecidea lignaria (Körb.) Nyl.

Lecidea plusiospora Th.Fr. & Hulting ex Th.Fr.

On bark of *Picea* and deciduous trees and shrubs.

S Ög-Jmt

N Ak Ho MR-NT

F U EH PH

Fries 1874, Hedlund 1892, Vainio 1934

Lecidea cavernarum (Räsänen) H.Magn.

Biatora cavernarum Räsänen

On granitic rock.

S -

N -

F A

Magnusson 1952c

Lecidea commaculans Nyl.

On rock.

S Hrtj TL

N NT

F InL

Schwab 1986, Svensson & Palice 2009, Westberg et al. 2016

Lecidea confluens (Weber) Ach.

Lecidea lepadina Sommerf.

On siliceous rocks.

S Bl Ög-TL

N Ho NT No Tr

F A-U St-Kn PeP-InL

Vainio 1934, Schwab 1986, Elvebakk & Bjerke 2006

Lecidea confluentula Müll.Arg.

Lecidea rimiseda Nyl.

On siliceous rocks.

S Sk Ö1 H1 Bh Vg Nrk Vrm-Upl

N -

F V U

Hertel 1995, Arup 2004a

Lecidea confluens Nyl.

The report from N is uncertain.

Degelius 1982

Lecidea conglutinata H.Magn.

On calcareous schists.

S TL (Nuolja 1921 Magnusson)

N -

F -

Magnusson 1952a, Hertel 1967

Lecidea consimilis Nyl.

Lignicolous.

S -

N -

F EH OP

Belongs to the poorly known *Lecidea malmeana* complex.

Printzen 1995, Palice et al. 2018

Lecidea coriacea Holien & Palice

On *Betula*, *Picea* and *Salix* and old conifer snags.

S Jmt

N He ST NT No Tr

F -

Holien et al. 2016b

Lecidea crisima Nyl.

Saxicolous (on crystalline schists, etc.).

S Hrj (Tännäs 1948 B. Magnusson)

N -

F -

Magnusson 1948b

Lecidea cuculi Vain.

Saxicolous.

S -

N -

F V U

To *Schaereria*?

Vainio 1934

Lecidea cupuliformis (Räsänen) H.Magn.

Biatora cupuliformis Räsänen

On bark of *Pinus sylvestris* and *Betula*, rarely on bryophytes on vertical rock surfaces.

S -

N -

F U EH PH

Report from S is *Lecidea erythrophaea*.

Printzen 1995

Lecidea dalslandica Hulting

Corticolous, on *Picea*.

S Dls Vrm?

N -

F -

Hulting 1891

Lecidea degeliana Hertel

Saxicolous, starting as a parasite on *Acarospora* sp.

S TL

N He Op No Tr

F -

Hertel 1970b, Degelius 1982, Hertel 1995, Westberg et al. 2015a

Lecidea demolita Vain.

Saxicolous.

S -

N -

F U

Vainio 1934, Inoue 1981b

Lecidea despecta Th.Fr.

Not in F, N or S. Reports from S are misidentifications.

Lecidea diducens Nyl.

Lecidea auriculata var. *diducens* (Nyl.) Th.Fr.

Lecidea sarcogyniza Nyl.

On siliceous rocks, especially at seashores and in alpine regions.

S Sk-Jmt Vb (mainly in western parts)

N AA Ro-ST No-Fi

F KP SoL-InL

Magnusson 1951, Hertel 1968, Hertel 1970b, Hertel 1971a, Hertel 1975c, Hertel 1977a, Hertel 1977c, Hertel 1977c, Schwab 1986, Hertel 1995

Lecidea ecrustacea (Anzi ex Arnold) Arnold

Lecidea complicata H.Magn.

Lecidea lactea var. *ecrustacea* (Arnold) Clauzade & Cl.Roux

Lecidea pseudopilati (Vain.) Vain

On siliceous rocks.

S Htj-TL

N MR Tr

F -

Magnusson 1945b, Magnusson 1946, Magnusson 1948a, Hertel 1971a, Hertel 1975c, Hertel 1995

Lecidea enclitica Nyl.

Lignicolous.

S Sm HI

N Ak NT No

F PK

Fries 1874, Vainio 1934

Lecidea endomelaena Leight.

Saxicolous.

S Mpd (Alnön 1923 Efr. Eriksson)

N -

F -

Magnusson 1951, Hertel 1995

Lecidea enterophaea Vain.

On calcareous rock.

An illegitimate name (*L. enterophaea* C.Knight). Reported from F: PK InL. According to Magnusson (1936b) also in Sweden: lapsus?

Vainio 1934

Lecidea epiphaea Nyl.

Corticulous, lignicolous, muscicolous, rarely saxicolous.

S Htj-TL

N Op ST-Fi

F Ks EnL InL

Fries 1874, Vainio 1934, Printzen 1995

Lecidea erythrophaea Flörke ex Sommerf.

Lecidea cupuliformis auct.

Biatora erythrophaea (Flörke ex Sommerf.) Th.Fr.

Lecidea tenebricosa Nyl.

On bark of deciduous trees and *Picea abies*, rarely on lignum.

S Sk-TL

N Ak-Te Ho-Fi

F V-ES PH-InL

Fries 1874, Vainio 1934, Coppins & James 1979b

Lecidea extenuata Vain.

Saxicolous.

S -

N -

F V U St EH InL

Vainio 1934

Lecidea freyi H.Magn.

On crystalline schist.

S TL (Vassitjåkka 1925 Frey)

N -

F -

Magnusson 1952a

Lecidea frustulenta H.Magn.

On siliceous rocks.

S Vg (Mölnlycke 1927 Magnusson)

N -

F -

Magnusson 1955

Lecidea fuliginosa Taylor

Lecidea confusa Nyl.

Toninia confusa (Nyl.) Boistel

Psora koerberi A.Massal.

On siliceous rocks.

S Sk-Ög Vrm Upl TL

N Øf Ak Op Bu Ro Ho No Tr

F V InL

Fries 1874, Vainio 1934, Elvebakk & Bjerke 2006

Lecidea fuscoatra (L.) Ach.

Lecidea fumosa (Hoffm.) Ach.

On sun-exposed, siliceous rock.

S Sk-Vb

N Øf-Fi

F A-PK OP PeP InL

Fries 1874, Hertel 1977a, Hertel 1995, Aptroot & van Herk 2007

Lecidea globulispora Nyl.

Lecidea antiloga Stirt.

Lecidea antiloga var. *infralaponica* Vain.

Lecidea infralaponica Vain.

On lignum or on bark of *Betula nana*, *Picea*, *Salix*, and *Juniperus*.

S LyL TL

N Fi

F Kn

Vainio 1934, Magnusson 1946, Magnusson 1952a, Fryday 2009

Lecidea grisella Flörke ex Schaer.

Lecidea fuscoatra v. *subcontigua* Fr.

Saxicolous.

S Ö1

N ?

F ?

Fries 1874, Aptroot & van Herk 2007, Bekking & Aptroot 2017

Lecidea haerjedalica H.Magn.

On crystalline schist.

S Hrj

N Ho

F -

Magnusson 1948b, Hertel 1975c, Hertel 1975b, Hertel 1977a, Hertel 1981a, Hertel 1995, Hertel 1997

Lecidea heliophila Räsänen

Saxicolous.

S -

N -

F KiL

Kari 1936

Lecidea helsinkiensis Vain.

Saxicolous.

S -

N -

F U

Vainio 1934, Inoue 1981b

Lecidea homosema Nyl.

On siliceous rocks (overhangs, etc.).

S Bh Jmt TL

N No

F -

Magnusson 1952a, Magnusson 1955, Degelius 1982

Lecidea hostella Ach.

The type is undeterminable.

Lecidea huxariensis (Beckh. ex J.Lahm) Zahlbr.

Lignicolous.

S Bh Vg Vrm

N Ak Bu

F -

Magnusson 1927, Magnusson 1951

Lecidea hypochlorella Vain.

Catillaria hypochlorella (Vain.) Vain.

On siliceous and calcareous rocks.

S TL

N No

F InL

Vainio 1934, Magnusson 1952a, Degelius 1955b, Kilius 1981

Lecidea ileiformis Fr.

On naked soil.

S -

N ST (Dovre, Blytt)

F -

Probably conspecific with *Calvitimela agelaea*.

Fries 1874, Timdal 1991, Jørgensen & Nordin 2009

Lecidea inaequalis H.Magn.

Saxicolous.

S Vrm (Munkfors 1951 Sundell)

N -

F -

Magnusson 1955

Lecidea inops Th.Fr.

On copper-rich, siliceous rock.

S Vrm Hrj LuL

N Ho ST No

F -

Fries 1874, Hertel 1977a, Vězda 1978a, Purvis & James 1985, Hertel 1995

Lecidea interludens Nyl.

Saxicolous.

S -

N MR (Romsdalen 1904 Havaas)

F -

Perhaps a *Fuscidea* sp. (P. James).

Lecidea irrumpens Hertel

Parasitic on *Tremolecia atrata*, on rocks.

S -

N Fi (Leseby, Norman)

F -

Hertel 1970a

Lecidea ivalensis Vain.

Saxicolous.

S Bh Jmt LyL

N NT No

F EnL InL

To Micarea?

Vainio 1934, Magnusson 1945b, Magnusson 1946

Lecidea keimioeënsis Vain.

On dioritic rock.

S -

N -

F KiL

Vainio 1934

Lecidea koskinenii (Räsänen) H.Magn.

Biatora koskinenii Räsänen

On bark of *Pinus sylvestris*.

S -

N -

F EP PH KP

Printzen 1995

Lecidea laboriosa Müll.Arg.

Lecidea leptoboloides Nyl.

Lecidea lithophiloides Nyl., non Müll.Arg.

Saxicolous.

S Vrm

N -

F -

Hertel 1975c, Culberson & Hertel 1979, Ehrenroth & Owe-Larsson 1991, Hertel 1995, Hertel 1997

Lecidea lapicida (Ach.) Ach.

Magnusson 1948a, Magnusson 1951, Magnusson 1955, Hertel 1975c, Hertel 1977a, Hertel 1981b, Degelius 1982, Purvis 1984, Hertel 1985, Schwab 1986, Rambold 1989, Hertel 1990, Hertel 1995

Lecidea lapicida (Ach.) Ach. var. lapicida

Lecidea declinans Nyl.

Lecidea declinascens Nyl.

Lecidea pruinosula H.Magn.

Lecidea scotoplaca H.Magn.

Lecidea subplanata Nyl.

Lecidea vestrogothica H.Magn.

On siliceous rock.

S Sk-TL

N Øf-Fi

F A-InL

Lecidea lapicida (Ach.) Ach. var. pantherina Ach.

Lecidea cyanea sensu Vain.

Lecidea lactea Flörke ex Schaer.

Lecidea pantherina (Ach.) Th.Fr.

Lecidea polycarpa Flörke

Lecidea theiodes Sommerf.

On siliceous rock.

S Sk-TL

N Øf-Fi

F A-InL

Lecidea lenticella (Arnold) Stizenb.

On calcareous rocks.

S LyL (Tärna 1924 Magnusson)

N -

F -

Magnusson 1946

Lecidea leprarioides Tønsberg

Lecidea turgidula var. *pulveracea* Th.Fr.

On bark and lignum of *Picea abies*, sometimes on *Salix* spp. and *Pinus sylvestris*.

S Ög Vrm-Dlr Hls Ång Jmt Nb ÅsL LuL

N Ak-Bu Te AA MR-Fi

F A V EH ES PH Kn-Ks

Tønsberg 1992b, Tønsberg 1997

Lecidea leucothallina Arnold

Lecidea leucothallina var. *discrepans* Rambold & Hertel

Lecidea leucothallina var. *kujalae* (Räsänen) Hertel

On rock, primarily crystalline schist, often near snowbeds.

S Jmt-TL

N He Op Ho-MR NT-Fi

F -

Magnusson 1946, Magnusson 1952a, Hertel 1975b, Hertel 1981a, Hertel 1995

Lecidea lithophila (Ach.) Ach.

Lecidea daphoena var. *rorida* Sommerf.

Lecidea heteromorpha H.Magn.

Saxicolous.

S Sk-TL

N Ak-Bu Te VA-Fi

F V U EH PH PS KP-KiL EnL InL

Fries 1874, Magnusson 1952a, Hertel 1970b, Hertel 1975c, Schwab 1986, Hertel 1991, Hertel 1995

Lecidea ludificans H.Magn.

On siliceous rocks.

S -

N Op (Galdhøpiggen 1947 Degelius)

F -

Not a Lecidea s.str.

Degelius 1948a, Jørgensen & Nordin 2009

Lecidea malmeana Zahlbr.

Lecidea enalliza var. *subplanata* Malme

Lecidea microsporella Malme, non Lettau.

On Picea.

S Srm (St. Malm 1891 (1905) Malme)

N -

F -

Malme 1919b, Palice et al. 2018

Lecidea melaphanoides Nyl.

On granitic rocks.

S LyL

N -

F U

Nylander 1875b

Lecidea microphaea Nyl.

On fruitbodies of polypores.

S LyL

N -

F EH KiL InL

Magnusson 1946

Lecidea mirabilis Nilson

Nom. non satis nota.

Hertel 1971a

Lecidea misella Ach.

Unknown application.

Lecidea moerensis H.Magn.

On siliceous rocks.

S Htrj-TL

N MR

F -

Magnusson 1948a

Lecidea montanella Vain.

Terricolous.

S -
N -
F EnL

Vainio 1934, Printzen 1995

Lecidea mougeotioides H.Magn.

On clay slate.

S -
N MR (Geiranger 1947 Magnusson)
F -

Magnusson 1948a, Jørgensen & Nordin 2009

Lecidea nugaria Nyl.

On lake shore rocks.

S -
N -
F EH PH

Vainio 1934

Lecidea nylanderii (Anzi) Th.Fr.

Lecidea leprodea Nyl.

On acidic bark of conifers and deciduous trees, primarily *Pinus*, sometimes lignicolous.

S Sk-Jmt TL
N Øf-No
F V U St-ES PH PK-Kn PeP KiL SoL?

Arup & Ekman 1991b, Tønsberg 1992b

Lecidea olivascens Th.Fr.

On bark of *Alnus*.

S Vg Nrk
N No
F EH

To *Lecanora* s. lat.

Fries 1874, Degelius 1957, Degelius 1982, Printzen 1995

Lecidea paraclitica Nyl.

Lecidea enalliza var. *fuliginosa* Th.Fr.

Lignicolous.

S Ö1 Vrm Dlr Hls
N Ak
F U EH

Fries 1874, Vainio 1934, Sundell 1972

Lecidea phaeopelidna Vain.

Corticolous.

S -

N -

F PH Kn KiL EnL

Vainio 1934, Printzen 1995

Lecidea phaeops Nyl.

Hymenelia phaeops (Nyl.) Motyka

Lecanora phaeops (Nyl.) Th.Fr.

On seasonally inundated rocks, damp rock walls, etc.

S Sk-LyL

N Ak Bu AA Ro-ST No-Fi

F V ES PH PS

Fries 1871, James 1970

Lecidea phaeostigmella Nyl.

On Fomes fomentarius.

S -

N -

F EH Kn

Printzen 1995

Lecidea phaeotera Nyl.

Biatora phaeotera (Nyl.) Räsänen

Terricolous.

S -

N -

F PeP

Printzen 1995

Lecidea plana (J.Lahm) Nyl.

Lecidea enteromorpha (Flot.) Vain.

Catillaria eximia Malme

Lecidea latypea Ach.

Catillaria stromatoides H.Magn.

On siliceous rocks.

S Sk-TL

N Ak-Bu Te AA Ro-SF ST No-Fi

F V U EH ES PS-KiL EnL InL

Fries 1874, Hertel 1975c, Hertel 1977a, Kilius 1981, Rambold 1989, Triebel 1989, Hertel 1995

Lecidea plebeja Nyl.

Lecidea enalliza Nyl.

On bark and lignum of conifers.

S Srm Vrm Upl Gst Dlr Hls Ång LuL

N Ak

F St EH PH PS PeP KiL SoL

Fries 1874, Vainio 1934

Lecidea polycocca Sommerf.

Lecidea dissipata H.Magn.

Lecidea kajanita Nyl.

On calcareous rocks.

S Vg-TL

N Ak? No

F V PK Kn PeP EnL

To Lecanoraceae.

Fries 1874, Magnusson 1952a, Hertel 1968, Hertel 1970b, Hertel 1971a, Hertel 1973, Hertel 1975c, Hertel 1991

Lecidea polytrichina Hertel

Lecanora polytrichina (Th.Fr.) Vain.

On bryophytes (Polytrichum, Gyromitrium).

S TL

N -

F -

Obermayer & Poelt 1994

Lecidea polytrichinella Hertel et al.

On bryophytes (Polytrichum).

S TL (Abisko 1980 Poelt)

N -

F -

Obermayer & Poelt 1994

Lecidea praenubila Nyl.

Lecidea atrocarpoides Vain.

Lecidea helsingforsensis Nyl.

Lecidea kittilensis Vain.

Lecidea paupercula Th.Fr.

On siliceous rocks.

S Dls Vg Vrm Dlr Hls Mpd Hlj-TL

N Op Bu AA Ro-MR No-Fi

F V U EP PS PK PeP-KiL EnL InL

Magnusson 1936c, Magnusson 1946, Hertel 1977a, Hertel 1981a, Hertel 1991, Hertel 1995

Lecidea praetermissa Tønsberg

On bark of *Alnus incana*, *Betula*, and *Sorbus*, rarely *Picea* or *Salix*.

S Jmt ÅsL LuL?

N He-Fi

F -

Tønsberg 1992b, Svensson et al. 2011

Lecidea prasinolepis (Nyl.) Th.Fr.

Terricolous.

S -

N Op

F InL

Fries 1874

Lecidea promiscens Nyl.

Lecidea promiscua var. *promiscens* (Nyl.) Clauzade & Cl.Roux

Saxicolous, on schist, etc.

S Vrm LuL TL

N Fi

F -

Hertel 1970b, Hertel 1971a, Hertel 1975c, Hertel 1977a, Hertel 1995

Lecidea promiscua Nyl.

Saxicolous.

S TL

N -

F -

Magnusson 1952a, Hertel 1977a, Hertel 1995

Lecidea promixta Nyl.

Lecidea nigerrima H.Magn., non Nyl.

Lecidea pernigra Hertel

On siliceous rocks.

S Hl Vg Srm Vrm Vsm

N -

F -

Magnusson 1934, Hertel 1975c, Hertel 1995, Arup 2004a, Westberg et al. 2008a

Lecidea protecta H.Magn.

On rock under overhang.

S Jmt (Handöl 1950 H. Magnusson)

N -

F -

Magnusson 1951, Hertel 1995

Lecidea pseudoconfluens Hertel ad int.

Saxicolous.

S -

N No (Vega, Degelius)

F -

Degelius 1982

Lecidea ramulosa Th.Fr.

On bryophytes and plant debris in mountain areas.

S Jmt LuL TL

N ST No-Fi

F EnL

Fries 1874, Vainio 1934

Lecidea rhagadiella (Nyl.) Th.Fr.

On granitic rock.

S -
N -
F EnL

Fries 1874, Vainio 1934

Lecidea roseotincta Coppins & Tønsberg

On bark of *Alnus incana*, sometimes on *Betula pubescens*, *Salix caprea* and *Sorbus aucuparia*, rarely on other deciduous trees and shrubs.

S Vrm
N Ro-Tr
F -

Coppins & Tønsberg 1988, Muhr 1991a, Jørgensen 1996

Lecidea sarcogynoides Körb.

On siliceous rocks.

S Sk Hl Bh Vg Vrm
N SF
F -

Malme 1935, Almborn 1948, Hertel 1975c, Aamlid 1983, Rambold 1989, Hertel 1995

Lecidea scabridula Hedl.

Lignicolous.

S Dlr Hls Jmt
N -
F -

Hedlund 1892

Lecidea septentrionalis Th.Fr.

Lecidea subglobosa H.Magn.

On bryophytes and plant debris.

S Hrj-TL
N Fi
F Ks EnL

Fries 1874, Printzen 1995, Pykälä 2017

Lecidea siderolithica Müll.Arg.

Lecidea nigrogrisea Nyl.

Saxicolous.

S -
N SF (Grotli 1974 Amic)
F -

Clauzade & Roux 1975

Lecidea silacea (Hoffm.) Ach.

Lecidea lapicida var. *griseolurida* Nyl.

Lichen silaceus (Hoffm.) Ach., nom. illeg.

On iron-rich rocks.

S Sk-TL

N Ak-Bu AA Ro-SF ST-Fi

F A-U St EH EP KP EnL InL

Hertel 1977a, Schwab 1986, Hertel 1995

Lecidea sparsilis Nyl.

On granitic rocks.

S Srm ("Ög", Kvarsebo, Hulting) Vrm?"

N -

F -

Hulting 1915

Lecidea sphaerella Hedl.

Lecidea meiocarpa subsp. *sphaerella* (Hedl.) Vain.

Lecidea sylvana sensu Th.Fr., p.p.

On bark or lignum of deciduous trees and shrubs, Juniperus bark, twigs of Picea, rarely on polypores.

S Dls Ög Srm Vrm Vsm Upl Hls Ång Jmt

N ST-Tr

F U EH PH PeP SoL

Hedlund 1892, Vainio 1934

Lecidea stenotera (Nyl.) Nyl.

Lecidea dovrensis var. *stenotera* Nyl.

On naked, acidic soil.

S Vrm Dlr Hls Hrj Jmt LyL LuL TL

N Fi

F Ks KiL EnL InL

Vainio 1934

Lecidea strasseri Zahlbr.

On bryophytes on the base of deciduous trees.

S Dls NrK Vrm Upl

N -

F V EH

Pykälä 2018, Svensson et al. 2020

Lecidea subapplanata H.Magn.

On bryophytes on rock.

S -

N MR (Grytten 1947 Magnusson)

F -

Possibly conspecific with *Miriquidica complanata*.

Magnusson 1948a, Jørgensen & Nordin 2009

Lecidea subcandida H.Magn.

Terricolous by a road.

S TL (Abisko-Björkliden 1927 Vrang & Olsén)

N -

F -

Magnusson 1952a

Lecidea subcinerascens Nyl.

Saxicolous.

S Jmt (Frostviken 1934 Magnusson)

N -

F -

Vainio 1934, Magnusson 1955

Lecidea subfuscescens Vain.

On Pinus and Salix.

S -

N Fi

F EnL InL

Record from Jmt refers to Lecanora fuscescens.

Vainio 1934, Printzen 1995

Lecidea subhumida Vain.

Lignicolous.

S -

N No

F EH PH InL

Vainio 1934, Printzen 1995

Lecidea subinsequens Nyl.

Lignicolous.

S -

N -

F EH KiL EnL

Vainio 1934

Lecidea submilvina Vain.

On granitic rock.

S -

N -

F InL

To Miriquidica leucophaea?

Vainio 1934

Lecidea subreagens H.Magn.

On granitic rock, etc.

S -

N Tr (Tromsø 1915 Lynge)

F -

Uncertain status.

Magnusson 1931, Jørgensen & Nordin 2009

Lecidea subrhagadiella Lynge

On schistose rock.

S -

N Ho (Granvin Havaas 1946-1951)

F -

Lynge 1937

Lecidea sudetica Körb.

Lecidea pantherina var. *sudetica* (Körb.) Vain.

On siliceous rocks.

S -

N -

F A U

Hertel 1995

Lecidea swartzioidea Nyl.

Lecidea jemtlandensis H.Magn.

Lecidea lithophiloides Müll.Arg.

Lecidea peralbida (Th.Fr.) H.Olivier

Lecidea vogesica auct.

On siliceous rock.

S Vrm Jmt LuL

N MR No

F A

Magnusson 1948a, Magnusson 1951, Sundell 1972, Hertel 1995

Lecidea sylvestris Vain.

On bark of *Sorbus aucuparia*.

S -

N -

F U EH PH

Vainio 1934, Printzen 1995

Lecidea tessellata Flörke

Lecidea cyanea, sensu Th.Fr., non orig. non sensu Vain.

Lecidea spilota Fr.

Lecidea tessellata Flörke var. caesia (Anzi) Arnold

Lecidea casimirii Müll.Arg.

On calcareous rock.

S TL

N Fi

F -

Magnusson 1952a, Hertel 1967, Hertel 1970a, Hertel 1973, Hertel 1975b, Hertel 1977a, Hertel 1981b, Hertel 1991, Hertel 1991, Hertel 1995

Lecidea tessellata Flörke var. tessellata

On non-calcareous rock, often parasitic on *Aspicilia* spp. (especially *A. cinerea*).

S Sk-TL

N Ak Op-Te ST No-Fi

F V U EH EP PK Ks InL

Lecidea tianensis Vain.

On bark of *Picea abies*.

S -

N -

F EH

Vainio 1934, Printzen 1995

Lecidea toensbergii Haugan & Tindal

Saxicolous on vertical to overhanging rock walls.

S -

N Op MR No Fi

F -

Haugan & Tindal 2018

Lecidea turficola (Hellb.) Th.Fr.

Lecidea atrorufella Nyl.

Terricolous, on soil rich in humus.

S Hvj-TL

N He Op

F V Ks EnL InL

Fries 1874, Vainio 1934

Lecidea turgidula Fr.

Biatora turgidula (Fr.) Arnold

On bark and lignum of conifers (often branches and twigs), sometimes on worked timber.

S Sk-TL

N Ak-Bu AA Ho SF ST-Fi

F A-ES PS PK Kn PeP Ks KiL InL

Fries 1874, Vainio 1934, Magnusson 1951

Lecidea umbonata (Hepp) Mudd

On exposed, calcareous schist.

S -
N Ho
F EnL

Hertel 1975b, Hertel 1977c, Hertel 1977b, Hertel 1977b, Hertel 1991, Hertel 1991, Hertel 1995

Lecidea vallicola H.Magn.

On slaty, bituminous limestone.

S Vg Ög
N -
F -

Magnusson 1939b, Hagström & Wik 2015, Hagström 2016

Lecidea variegatula Nyl.

On siliceous rocks.

S Sk (Norra Rörum 2014 U. Arup)
N -
F -

Arup 2016

Lecidea vermlandica H.Magn.

On shaded, vertical, siliceous rock.

S Vrm (Sunnemo 1952 S. Sundell)
N -
F -

Magnusson 1955

Lecidea verruca Poelt

An obligate parasite on *Aspicilia simoënsis* and *Aspicilia grisea* on rocks.

S Jmt TL
N Ho MR Fi
F EnL

Hertel 1970a, Hertel 1973, Hertel 1975b, Poelt 1980, Hertel 1981b, Hertel 1995

Lecidea wolfiana Müll.Arg.

Saxicolous.

S TL (Abisko 1919 Magnusson)
N -
F -

Magnusson 1952a

Lecidella aeruginea (H.G.Falk) Knoph & Leuckert

Lecidea elaeochroma var. *aeruginea* (H.G.Falk) Th.Fr.

Lecidea enteroleuca subsp. *aeruginea* H.G.Falk

On clayey soil.

S Bl (Vämö 1872 Falk & Svanlund)

N -

F -

Fries 1874, Falk 1874, Knoph & Leuckert 1997

Lecidella altensis (Th.Fr.) Hertel

Lecidea altensis Th.Fr.

On calcareous rocks.

S TL

N Fi

F -

Fries 1874, Vainio 1934, Hertel 1975c

Lecidella anomaloides (A.Massal.) Hertel & H.Kilius

Lecidea goniophila sensu H.Magn., Poelt etc.

Lecidea umbrosa (A.Massal.) Hertel

On siliceous or calcareous rock, also on lignum.

S Sk-LuL

N Ak-Te Ro Ho SF ST No-Fi

F A-ES PH-PK PeP Ks EnL InL

Fries 1874, Vainio 1934, Magnusson 1945a, Hertel 1973, Hertel 1975c, Knoph & Leuckert 2000

Lecidella asema (Nyl.) Knoph & Hertel

Lecidea subincongrua Nyl.

Lecidella subincongrua (Nyl.) Hertel & Leuckert

Saxicolous.

S -

N -

F V

Knoph 1990

Lecidella atrosanguinea (Flörke)

Lecidea atrosanguinea (Flörke) Vain., nom. illeg.

On siliceous rocks.

S Vg-UpI

N -

F U EH InL

Perhaps to be included in *Lecidella anomaloides*?

Vainio 1934, Magnusson 1939b

Lecidella bullata Körb.

Not in F, N or S.

Lecidella carpathica Körb.

Lecidea carpathica (Körb.) Szatala

Lecidea fennica Räsänen

Lecidea latypea auct., non Ach.

Lecidea latypiza auct., non Nyl.

Blastenia rejecta Th.Fr.

Nesolechia vainioana Räsänen

On siliceous or calcareous rock.

S Sk-LuL

N Ak-Bu Ro-ST No Tr Fi

F U EH PK Kn?

Magnusson 1945a, Poelt 1961b, Wunder 1974, Hertel 1977a, Knoph 1990, Knoph & Leuckert 2000, Elvebakk & Bjerke 2006

Lecidella effugiens (Nilson) Knoph & Hertel

Lecidea albidocinerella Vain.

Lecidella albidocinerella (Vain.) Poelt & Vězda

Lecidea effugiens Nilson

Lecidea euphorea f. *saxicola* Räsänen

Lecidea incongruella Vain.

Lecidella incongruella (Vain.) Hertel & Leuckert

Saxicolous.

S Bl Sm Bh Vg Vrm Upl Jmt LyL LuL

N SF Fi

F U St PeP

To *Lecidella asema* (Nyl.) Knoph & Hertel?

Kajanus 1907, Hertel & Leuckert 1969, Knoph 1990, Leuckert et al. 1992, Knoph et al. 1995

Lecidella elaeochroma (Ach.) M.Choisy

Lecidea achristotera Nyl.

Lecidella achristotera (Nyl.) Hertel & Leuckert

Lecidea elaeochroma (Ach.) Ach.

Lecidella elaeochroma f. *soralifera* (Erichsen) D.Hawksw.

Lecidea limitata auct., (*Lichen limitatus* Scop. is a nom. non satis nota)

Lecidea olivacea (Hoffm.) A.Massal.

Lecidea parasema auct.

On bark of deciduous trees.

S Sk-Jmt LuL TL

N Øf-Fi

F A-U St-ES EP PK-Kn PeP

Laundon 1960, Tønberg 1992b, Tønberg 1997

Lecidella euphorea (Flörke) Hertel

Lecidea achrista (Sommerf.) Britzelm.

Lecidea diasema Nyl.

Lecidea dolosa Ach.

Lecidea elaeochroma auct. p.p.

Lecidea euphorea (Flörke) Nyl.

Lecidea glomerulosa (DC.) Steud.

Lecidella glomerulosa (DC.) M.Choisy

Corticolous, lignicolous and muscicolous.

S Sk-TL

N Øf Ak Bu AA Ro Ho MR Tr Fi

F A-Ks EnL InL

Fries 1874, Vainio 1934, Elvebakk & Bjerke 2006

Lecidella flavosorediata (Vězda) Hertel & Leuckert

Lecidea flavosorediata Vězda

On bark of deciduous trees.

S Öl Hl-Vg Nrk Vrm Upl-Hls

N Øf-He Bu-NT

F V

Laundon 1960, Vězda 1961a, Diederich 1989, Tønsberg 1992b

Lecidella laureri (Hepp) Körb.

Lecidea euphorea var. *laureri* (Hepp) Vain.

Lecidea laureri (Hepp) Anzi

On bark of deciduous trees.

S Gtl? Hl Nrk Upl Gst Hls

N Ak

F -

Fries 1874, Vainio 1934

Lecidella meiococca (Nyl.) Leuckert & Hertel

Lecidea meiococca Nyl.

Lecidea subincongrua sensu H.Magn., p.p.

Lecidella subincongrua sensu H.Magn., p.p.

Saxicolous.

S Sk Bh Vg

N VA-NT Tr Fi

F -

Leuckert et al. 1992, Knoph et al. 1995

Lecidella patavina (A.Massal.) Knoph & Leuckert

Lecidea acrocyanea (Th.Fr.) H.Magn.

Lecidea endolitheae Lynge

Lecidella endolitheae (Lynge) Hertel & Leuckert

Lecidella inamoena (Müll.Arg.) Hertel

Lecidea spitsbergensis Lynge

Lecidella spitsbergensis (Lynge) Hertel & Leuckert

On rock; ornithocoprophilous.

S Hjr-TL

N He Op MR ST Tr Fi

F KiL

Fries 1874, Magnusson 1945a, Hertel 1967, Leuckert & Hertel 1967, Leuckert & Hertel 1969, Hertel 1971b, Hertel 1975b, Hertel 1975c, Hertel 1977a, Knoph 1990, Knoph & Leuckert 2000, Pykälä 2013

Lecidella pulveracea (Flörke ex Schaer.) P.Sydow

Lecidea pulveracea Flörke ex Schaer.

Lignicolous.

S Sk Gtl Hl Bh Vg

N -

F -

Magnusson 1929b, Laundon 1963, Hertel & Leuckert 1969

Lecidella scabra (Taylor) Hertel & Leuckert

Lecidella elaeochroma var. *pulverulenta* Th.Fr.

Lecidella luhankaensis Vain.

Lecidea prasinula (Wedd.) B.de Lesd.

Lecidella prasinula (Wedd.) Hertel

Lecidea protrusa auct.

On siliceous rocks and eutrophic bark.

S Sk-Dlr Ång

N Øf-He Bu-SF ST No

F EH (?)

Magnusson 1945a, Hertel & Leuckert 1969, Knoph 1990, Tønsberg 1992b

Lecidella stigmatea (Ach.) Hertel & Leuckert

Biatora arctoooides Hellb.

Lecidea arthoniza Nyl.

Lecidea caesiocinerea H.Magn.

Lecidea cinnamomea Flörke ex Hellb.

Lecidea diasemoides Nyl.

Lecidea elaeochroma var. *pilularis* Th.Fr.

Lecidea glabra (Kremp.) Hellb.

Lecidea incongrua Nyl.

Lecidella incongrua (Nyl.) Arnold

Lecidea micacea Körb.

Lecidea parasema subsp. *incongrua* Nyl.

Diplophragmia petsamoensis var. *savonica* Räsänen

Lecidea stigmatea Ach.

Lecidea subsequens Nyl.

Lecidea vulgata Zahlbr.

Lecidea vulgata var. *pilularis* (Th.Fr.) H.Magn.

On siliceous or calcareous rocks.

S Sk-TL

N Øf-Te Ro-Fi

F V U EH ES? EP PS PK Kn PeP Ks EnL InL

Magnusson 1945a, Leuckert & Hertel 1967, Leuckert & Hertel 1969, Hertel 1975c, Hertel 1975c, Hertel 1977a, Rambold 1989, Triebel 1989, Knoph & Leuckert 2000, Knoph & Leuckert 2000

Lecidella subcongrua R.Sant.

Lecidea subcongrua Vain., nom. illeg.

Saxicolous.

S Nb LyL PL TL

N Ho ST No

F V U EH PS PK Kn KiL InL

Vainio 1934, Magnusson 1946

Lecidella subviridis Tønsberg

On trunks and branches of deciduous trees and shrubs, conifers, and *Calluna*.

S Vrm Upl

N Øf Op Vf Te Ro-NT

F -

Tønsberg 1992b, von Hirschheydt et al. 2021

Lecidella tumidula (A.Massal.) Knoph & Leuckert

On trunk of *Populus tremula*.

S Vrm (Degerfors 1983 L.-E. Muhr)

N Ak

F -

Knoph & Leuckert 1997

Lecidella varangrica Haugan & Tønsberg

On vertical to overhanging rock faces on shores with strong maritime influence.

S -
N Fi
F -

Haugan & Tønsberg 2018

Lecidella wulfenii (Hepp) Körb.

Lecidea elaeochroma var. *muscorum* Th.Fr.

Lecidea heppii R.A. Anderson & W.A.Weber

Lecidea wulfeniana Grummann

Lecidea wulfenii (Hepp) Arnold

On more or less dead bryophytes and on plant debris.

S Öl Gtl (Upl?) Hrj-TL
N Op Tr Fi
F A EH PeP EnL InL

Fries 1874, Vainio 1934, Anderson 1962

Lecidella xylophila (Th.Fr.) Knoph & Leuckert

Lecidea xylophila Th.Fr. in H.G.Falk

Lignicolous.

S Bl Gtl Srm Vrm Hls (LyL?)
N -
F -

Fries 1874, Magnusson 1946, Knoph & Leuckert 1997

Lecidoma demissum (Rutstr.) Gotth. Schneid. & Hertel

Biatora atrorufa (Dicks.) Fr.

Lecidea atrorufa (Dicks.) Ach.

Lecidea demissa (Rutstr.) Ach.

Lepidoma demissa (Rutstr.) M.Choisy, nom. illeg.

Psora demissa (Rutstr.) Stein, nom. illeg.

Lichen demissus Rutstr.

On acidic soil and siliceous rock.

S Sk Sm Bh Vg-TL
N Øf-Fi
F A-U St-ES PH PeP-InL

Fries 1874, Hertel 1981a, Ihlen 1997b, Wall & Nicklasson 2010

Leciophysma finmarkicum Th.Fr.

On plant debris and bryophytes on calcareous ground.

S Hrj Jmt LyL LuL TL
N Ho ST NT Tr Fi
F EnL

Fries 1865a, Henssen 1965, Jørgensen 2007c, Ahti et al. 2012

Leciophysma furfurascens (Nyl.) Gyeln.

Pannaria furfurascens Nyl.

On plant debris, etc., in tundra.

S Jmt LyL TL

N NT Tr Fi

F Ks

Henssen 1965, Nordin 2004a, Jørgensen 2007c, Pykälä 2010b, Ahti et al. 2012

Lemmopsis arnoldiana (Hepp) Zahlbr.

On calcareous rocks.

S (Sm)

N No

F V EH PeP

Ellis 1981, Jørgensen 1988, Jørgensen 2007e, Ahti et al. 2012

Lemmopsis pelodes (Körb. ex Stein) T.L.Ellis

On calcareous rocks.

S Sk Bh Vg (Upl)

N -

F V

Degelius 1948b, Ellis 1981, Jørgensen 1988, Jørgensen 2007e, Ahti et al. 2012, Hagström 2012a

Lempholemma botryosum (A.Massal.) Zahlbr.

On calcareous rocks.

S Öl Gtl Vsm Dls Jmt LyL

N Ak Bu Te No

F PK EH

Jørgensen 2007e, Ahti et al. 2012, Pykälä 2013

Lempholemma chalazanum (Ach.) B.de Lesd.

Physma chalazanum (Ach.) Arnold

Among bryophytes on calcareous ground.

S Gtl Vg

N -

F V U PeP EnL

Hellbom 1884, Jørgensen 1988, Jørgensen 2007e, Ahti et al. 2012

Lempholemma cladodes (Tuck.) Zahlbr.

Lempholemma albonigrum H.Magn.

On calcareous rocks.

S Öl Sm Vg Srm Vsm Upl Dlr LyL TL

N Øf? Bu Te No Fi

F EnL

Degelius 1945c, Magnusson 1946, Jørgensen 2007e, Ahti et al. 2012

Lempholemma degelianum P.M.Jørg.

On calcareous rocks.

S Öl Gtl Vg Ög

N -

F V

Jørgensen 1998, Jørgensen 2007e, Pykälä 2010b, Ahti et al. 2012

Lempholemma dispansum H.Magn.

On irrigated, often sun-exposed calcareous rocks.

S Dls Vg Dlr Jmt LyL TL

N -

F Ks

Magnusson 1939b, Jørgensen 2007e, Pykälä 2010b, Ahti et al. 2012

Lempholemma intricatum (Arnold) Zahlbr.

Leciophysma fennicum Räsänen

Lempholemma fennicum (Räsänen) Degel.

Saxicolous.

S Jmt LuL

N Øf Bu AA No

F EnL

Degelius 1956, Degelius 1982, Jørgensen 1988, Jørgensen 2007e, Svensson et al. 2009, Kristinsson & Nordin 2012, Ahti et al. 2012

Lempholemma isidioides (Nyl. ex Arnold) H.Magn.

Collema alpinum Th.Fr. pro max. parte

Collema isidioides Nyl. ex Arnold, (1870) (non "isidioides")

Lempholemma silicicola H.Magn.

On irrigated, often sun-exposed, calcareous or rarely siliceous rocks.

S Öl-Sm Dls-Ög Srm Upl Dlr LyL TL

N Op Bu Te Ho ST NT No Tr

F V Ks

Degelius 1939b, Havaas 1954, Degelius 1982, Elvebakk & Bjerke 2006, Jørgensen 2007e, Pykälä 2010b, Ahti et al. 2012

Lempholemma polyanthes (Bernh.) Malme

Lempholemma chalazanodes (Nyl.) Zahlbr.

Physma chalazanodes (Nyl.) Arnold

Lempholemma myriococcum (Ach.) Th.Fr.

Physma myriococcum (Ach.) Körb.

Physma polyanthes (Bernh.) Arnold

Among bryophytes on calcareous rock.

S Sk-TL

N Øf-Vf AA Ho SF ST-No Tr Fi

F V EH PeP Ks SoL-InL

Fries 1860, Jørgensen 1988, Elvebakk & Bjerke 2006, Jørgensen 2007e, Ahti et al. 2012

Lempholemma radiatum (Sommerf.) Henssen

Omphalaria radiata (Sommerf.) Forssell

Thyrea radiata (Sommerf.) Zahlbr.

On irrigated rocks.

S Mpd Hrij-Vb ÅsL LyL LuL TL

N Op Ho ST No Tr

F Ks

Forssell 1885a, Henssen 1968, Jørgensen 2007e, Ahti et al. 2012

Lepra albescens (Huds.) Hafellner

Lichen albescens Huds.

Pertusaria albescens (Huds.) M.Choisy & Werner

Pertusaria albescens var. *corallina* (Zahlbr.) J.R.Laundon

Pertusaria discoidea (Pers.) Malme

Pertusaria globulifera (Turner) A.Massal.

Pertusaria henrici sensu Erichsen

Pertusaria leprarioides Erichsen

Pertusaria orbiculata (Schreb.) Zahlbr.

Lichen scaber Scop.

Pertusaria scutellata Hue

On deciduous trees, sometimes on lignum or rock.

S Sk-TL

N Øf-Tr

F A-ES PH-PK Kn Ks

Laundon 1963, Dibben 1980, Hanko 1983, Tønsberg 1992b

Lepra amara (Ach.) Hafellner

Pertusaria amara (Ach.) Nyl.

Pertusaria amara f. *carpinii* Erichsen

Pertusaria faginea auct.

Pertusaria pulvinata Erichsen

Pertusaria slesvicensis Erichsen

Mainly on deciduous trees, rarely on conifers, lignum, bryophytes or on rock.

S Sk-LuL (TL?)

N Øf-Tr

F A-SoL InL

Høeg 1923, Almborn 1948, Dibben 1980, Hanko 1983, Tønsberg 1992b

Lepra aspergilla (Ach.) Hafellner

Pertusaria aspergilla (Ach.) J.R.Laundon

Lichen aspergillus Ach.

Pertusaria dealbata auct.

Pertusaria dealbescens auct.

Pertusaria leucosora auct.

On siliceous rock, most frequently in coastal regions.

S Sk-Hls

N Øf Bu Te AA Ro-SF ST No

F -

Including two different taxa? See Hanko (1983, pp. 164-166, 175-180).

Laundon 1992b

Lepra borealis (Erichsen) I.Schmitt et al.

Pertusaria borealis Erichsen

On bark and lignum of deciduous trees and conifers.

S Vrm Dlr Mpd Jmt Vb LuL

N Ak-Fi

F V U St-ES Kn

Tønsberg 1992b

Lepra corallina (L.) Hafellner

Pertusaria corallina (L.) Arnold

On siliceous rock, rarely on tree bark.

S Sk-Jmt TL

N Øf-Op Vf-No Fi

F A-U St-ES Ks

Fries 1871, Kärenlampi 1965, Hanko 1983, Elix 2012

Lepra dactylina (Ach.) Hafellner

Pertusaria dactylina (Ach.) Nyl.

On decaying bryophytes, plant debris, naked soil, etc., rarely corticolous.

S Hls Ång-TL

N He-Bu Te Ho-Fi

F OP Ks-InL

Dibben 1980, Hanko 1983, Tønsberg 1992b

Lepra excludens (Nyl.) Hafellner

Pertusaria excludens Nyl.

Saxicolous.

S -

N Bu Ro Ho

F PS

The report of the species from S (TL) by Alstrup (1991), is obviously incorrect.

Skjolddal 1982, Hanko 1983, Jørgensen 1996

Lepra melanochlora (DC.) Hafellner

Pertusaria melanochlora (DC.) Nyl.

On granitic rock.

S -

N Ro (Forsand 1947 Degelius)

F -

Degelius 1948a, Hanko 1983, Jørgensen 1996

Lepra multipuncta (Turner) Hafellner

Pertusaria leptospora Nitschke ex J.Lahm

Pertusaria multipuncta (Turner) Nyl.

On bark of deciduous trees and shrubs.

S Sk B1 Sm-Bh Vg

N Vf VA-SF

F -

Almborn 1948, Hanko 1983, Arup et al. 1997, Thor & Arvidsson 1999, Hemberg 2011, Blom et al. 2015

Lepra ophthalmiza (Nyl.) Hafellner

Pertusaria multipuncta auct.

Pertusaria multipuncta var. *ophthalmiza* Nyl.

Pertusaria ophthalmiza (Nyl.) Nyl.

On bark of deciduous trees.

S Bh-Vb ÅsL LuL

N Ak-Te Ro-SF ST-Tr

F V U St-InL

Høeg 1923, Dibben 1980, Hanko 1983

Lepra panyrga (Ach.) Hafellner

Pertusaria panyrga (Ach.) A.Massal.

On decaying bryophytes, plant debris, soil, etc., rarely corticolous.

S Dlr-TL

N He-Bu Ho-ST No-Fi

F KiL EnL InL

Fries 1871, Dibben 1980, Hanko 1983

Lepra trachythallina (Erichsen) Lendemer & R.C.Harris

Pertusaria laevigata (Nyl.) Arnold, (1884) non (Th.Fr.) Anzi (1860)

Pertusaria trachythallina Erichsen

On bark of Fagus, Quercus and Sorbus.

S -

N Vf AA SF

F -

Høeg 1923, Almborn 1948, Dibben 1980, Hanko 1983

Lepraria aeruginosa (Weiss) Sm.

Not a lichen.

James 1965

Lepraria alpina (B.de Lesd.) Tretiach & Baruffo*Lepraria angardiana* Øvstedal*Lepruloma angardianum* (Øvstedal) J.R.Laundon*Lepraria cacuminum* (A.Massal.) Lohtander*Lepruloma cacuminum* (A.Massal.) J.R.Laundon*Lepraria caerulescens* (Hue) Botnen & Øvstedal

On bryophytes or plant debris on rain-exposed rocks, boulders and on the ground, rarely on bark of *Salix* or *Juniperus*.

S Mpd Jmt TL

N Op Ho SF NT No Tr Fi

F V U EH ES PK KP SoL InL

Botnen & Øvstedal 1988, Laundon 1989, Leuckert & Kümmerling 1991, Tønsberg 1992b, Laundon 1992a, Leuckert et al. 1995, Lohtander 1995, Leuckert et al. 1995, Elvebakk & Bjerke 2006, Baruffo et al. 2006, Saag et al. 2009

Lepraria antiquitatis (L.) Ach.

Not a lichen.

Laundon 1992a

Lepraria atlantica Orange

On bryophytes on shaded rock.

S -

N Ro Ho

F -

Printzen et al. 2001, Orange 2002a

Lepraria bergensis Tønsberg

On bryophytes or directly on siliceous rock under overhangs.

S -

N Ho

F -

Tønsberg 2002

Lepraria borealis Lohtander & Tønsberg

On dry parts of tree trunks or on bryophytes on rock (rain-sheltered or not).

S Sk Hl Bh Dls NrK Srm Vrm Upl Dlr

N Ak Vf-SF NT Tr Fi

F A-U St-ES PH-SoL InL

Lohtander 1994, Lindblom 1995, Elvebakk & Bjerke 2006, Thor 2008

Lepraria caesioalba (B.de Lesd.) J.R.Laundon*Lepraria zonata* Brodo

On bryophytes or directly on bark of deciduous trees, or on bryophytes or directly on rock rain-sheltered or not).

S Hl Bh Vg Ög Dlr Hls Jmt

N Te AA Ro-SF ST No

F A-EK PK InL

Tønsberg 1992b, Laundon 1992a

Lepraria celata Slavíková

On bark of Picea in damp forest.

S Ång (Björna 1991 J. Hermansson)

N -

F -

Slavíková-Bayerová & Orange 2006

Lepraria crassissima (Hue) Lettau

Crocynia crassissima Hue

On siliceous rocks.

S Sk Dls Vrm Vsm Jmt

N He Op Ho ST-No

F -

Lettau 1958, Lindblom 1995

Lepraria diffusa (J.R.Laundon) Kukwa

Kukwa 2002

Lepraria diffusa (J.R.Laundon) Kukwa var. chrysodetoides (J.R.Laundon) Kukwa

Lepruloma diffusum var. *chrysodetoides* J.R. Laundon

On bryophytes on vertical or overhanging rocks.

S Bh Dls Vg Nrk Vrm Dlr LuL

N Ro-SF NT Tr

F U EK EH ES PH-PK InL

Laundon 1989, Moberg 1989, Tønsberg 2002, Elvebakk & Bjerke 2006

Lepraria diffusa (J.R.Laundon) Kukwa var. diffusa

Lepruloma diffusum var. *diffusum* J.R.Laundon

On bryophytes on rock or directly on rock.

S Dls Vrm Dlr Jmt

N -

F V U EH ES PK Kn -Ks InL

Laundon 1989, Muhr 1993

Lepraria eburnea J.R.Laundon

Lepraria frigida J.R.Laundon

On bryophytes or directly on bark of deciduous trees, or on bryophytes or directly on rock (rain-sheltered or not).

S Ög Upl Dlr TL

N Bu Vf AA-SF ST NT Tr

F A-U St EH EP-OP InL

Tønsberg 1992b, Laundon 1992a, Muhr 1993, Nordin 1995, Orange 1997, Leuckert et al. 2002

Lepraria elobata Tønsberg

On bark of trees and shrubs, rarely on rain-sheltered rock surfaces.

S Sk Hl Ög Srm Vrm Upl Dlr Ång

N Øf-Tr

F A-U St-ES PK PeP Ks

Tønsberg 1992b, Moberg & Thor 1993, Muhr 1993, Lindblom 1995

Lepraria farinosa (Hoffm.) Ach.

Unknown application.

***Lepraria finkii* (B.de Lesd.) R.C.Harris**

Lepraria lobificans auct.

On bryophytes or directly on bark of deciduous trees.

S Sk-LuL

N Øf Op Vf AA-Fi

F A-ES PS-SoL InL

Until recently named *Lepraria lobificans* in Fennoscandia.

Hällbom 1984, Tønsberg 1992b, Laundon 1992a, Moberg & Thor 1993, Muhr 1993, Lendemer 2013, Lendemer 2013, Tindal & Tønsberg 2021

***Lepraria humida* Slav.-Bay. & Orange**

On siliceous rocks.

S -

N -

F V

Pykälä et al. 2017c

***Lepraria incana* (L.) Ach.**

Lepraria aeruginosa auct., non (Weiss) Sm.

Lepraria glaucella (Flörke) Nyl.

On rain-sheltered surfaces of bark, lignum and rock.

S Sk-Hrj ÅsL LuL

N Øf Ak Op Bu Ro-SF ST-Tr

F A-EP PS-KP OP-Ks

Lindblom 1990, Arup & Ekman 1991b, Kümmerling et al. 1991, Tønsberg 1992b, Laundon 1992a, Lindblom 1995, Tønsberg 2002

***Lepraria jackii* Tønsberg**

On rain-sheltered surfaces of tree bark, lignum, or (rarely) rock.

S Sk Öl Gtl Bh Ög Vrm Upl Dlr Hls Jmt Ång

N Øf-Bu VA Ho SF ST-No

F V-Kn PeP-EnL

Tønsberg 1992b, Moberg & Thor 1993, Lindblom 1995

***Lepraria lobificans* Nyl.**

Lepraria santosii Argüello & A.Crespo

On overhanging rock walls.

S -

N Ho

F -

Lendemer 2013, Tindal & Tønsberg 2021

Lepraria membranacea (Dicks.) Vain.

Crocynia lanuginosa (Ach.) Hue

Amphiloma lanuginosum (Ach.) Nyl.

Crocynia membranacea (Dicks.) Zahlbr.

Leproloma membranaceum (Dicks.) J.R.Laundon

On shaded siliceous rocks, on bryophytes, etc.

S Sk-TL

N Øf Ak Op Bu Te-Fi

F A-KP OP-InL

Laundon 1989, Arup & Ekman 1991b, Leuckert & Kümmerling 1991, Tønsberg 1992b, Tønsberg & Jørgensen 1997

Lepraria neglecta (Nyl.) Lettau

Crocynia neglecta (Nyl.) Hue

Mainly on acidic rocks, soil or on bryophytes, sometimes on tree bark.

S Sk-TL

N Øf Ak Op-Fi

F A-EP PS-KP OP-Ks InL

Lecidea neglecta Nyl. is typified on the thallus of the type specimen. The apothecia belong to *Rhymbocarpus neglectus*.

Tønsberg 1992b, Laundon 1992a, Kümmerling et al. 1993, Lindblom 1995

Lepraria nivalis J.R.Laundon

Lepraria crassisima auct.

Usually on more or less vertical, calcareous rocks and soil.

S Sk Gtl Dls Vg Vrm Vsm Hrj Jmt TL

N Op Ho

F V

Leuckert et al. 1995, Pykälä et al. 2017c

Lepraria rigidula (B.de Lesd.) Tønsberg

On dry tree bark or on bryophytes on rain-sheltered bark or rock.

S Sk Gtl Sm Hl Bh Vg Nrk Vrm Dlr Hls Jmt

N Øf Ak Op-No Tr Fi

F A-ES PS PK Ks EnL InL

Tønsberg 1992b, Muhr 1993, Lindblom 1995, Elvebakk & Bjerke 2006

Lepraria subalbicans (I.M.Lamb) Lendemer & Hodkinson

Leprocaulon subalbicans (I.M.Lamb) I.M.Lamb & A.M.Ward

On rock in alpine and subalpine habitats.

S ?

N Op Ho

F -

Lamb & Ward 1974, Hafellner 1993b, Lendemer & Hodkinson 2013

Lepraria sylvicola Orange

On rock.

S -
N No
F -

Timdal & Tønsberg 2021

Lepraria umbricola Tønsberg

On rain-sheltered bark or lignum of trees.

S Sk HI
N Ho SF
F -

Tønsberg 1992b, Laundon 1992a, Lindblom 1995, Jørgensen 1996

Lepraria vouauxii (Hue) R.C.Harris

Crocynia arctica Lyngé

Lepraria arctica (Lyngé) Wetmore

Leproloma vouauxii (Hue) J.R.Laundon

On rock under overhangs, on bark of deciduous trees, sometimes on soil.

S Sk-Öl Sm-Bh Ög Upl Hrj-TL
N Øf Ak Op AA-SF ST-Fi
F A? V EK EH Kn PeP EnL InL

Magnusson 1952a, Hallberg 1971, Laundon 1989, Arup & Ekman 1991b, Leuckert & Kümmerling 1991, Tønsberg 1992b

Leprocaulon quisquiliare (Leers) M.Choisy

Leprocaulon microscopicum (Vill.) Gams

Stereocaulon microscopicum (Vill.) Frey

Leprocaulon nanum (Ach.) Nyl. ex Lamy

Stereocaulon nanum (Ach.) Ach.

Stereocaulon quisquiliare (Leers) Hoffm.

In crevices and among bryophytes and other lichens on preferably more or less vertical rocks.

S Sk-Ång Jmt
N Øf-No
F V-EH

Magnusson 1926b, Lamb & Ward 1974, Lendemé & Hodkinson 2013

Leproplaca chrysodeta (Räsänen) J.R.Laundon

Caloplaca chrysodeta (Vain. ex Räsänen) Dombr.

On vertical or overhanging rock surfaces of siliceous or calcareous rock.

S Sk Öl-Sm Srm-Dlr Hls Hrj Jmt ÅsL
N Ak-Bu Ro Ho ST-Tr
F V-EK PS-OP Ks

Nordin 1972, Laundon 1974, Poelt 1991, Arup et al. 1997, Thor & Arvidsson 1999, Arup et al. 2013

Leproplaca cirrochroa (Ach.) Arup et al.

Caloplaca cirrochroa (Ach.) Th.Fr.

On calcareous rocks (schists, etc.).

S Gtl Jmt TL?

N He-Bu Te Ho SF NT

F Ks

Nordin 1972, Timdal 1982, Alstrup 1991, Navarro-Rosinés & Roux 1994, Arup et al. 2013

Leproplaca obliterans (Nyl.) Arup et al.

Caloplaca obliterans (Nyl.) Blomb. & Forssell

Placodium obliterans Nyl.

On vertical rock surfaces and overhangs on siliceous and slightly calcareous rocks.

S Sk Hl Dls Vg-TL

N He-Bu AA Ro-Fi

F A V EH ES PH-KP OP-Ks SoL-InL

Nordin 1972, Arup et al. 2013

Leproplaca proteus (Poelt) Arup et al.

Caloplaca proteus Poelt

On calcareous rocks.

S Hrj (Funäsdalen 1970, 1988 R. Santesson)

N -

F -

Thor & Arvidsson 1999, Arup 2004b, Westberg et al. 2005, Stridvall & Stridvall 2005, Arup et al. 2013

Leproplaca xantholyta (Nyl.) Hue

Caloplaca xantholyta (Nyl.) Jatta

Not in F, N or S. Incorrectly reported from N Op.

Arup et al. 2013

Leptochidium albociliatum (Desm.) M.Choisy

Leptogium albociliatum Desm.

Polychidium albociliatum (Desm.) Zahlbr.

Among bryophytes on rocks.

S Sm Ög TL

N He Op SF ST No-Fi

F EnL

Anderson & Carmer 1974, Degelius 1982, Jørgensen 2007f, Ahti et al. 2012

Leptochidium crenatum (Nyl.) P.M.Jørg.

Leptochidium albociliatum var. *eciliatum* Degel.

Leptogium crenatum (Nyl.) Vain., nom. sed non spec.

Leptogium rivulare var. *crenatum* (Nyl.) Vain.

Among bryophytes on rocks.

S Jmt LuL TL

N He Op Ho SF No Tr

F EnL

Degelius 1982, Jørgensen 2006, Jørgensen 2007f, Ahti et al. 2012

Leptogium britannicum P.M.Jørg. & P.James

Terricolous, in grass vegetation on coastal rocks.

S -
N Ro Ho
F -

Jørgensen & James 1983, Jørgensen 1988, Tønsberg et al. 1996, Jørgensen 1996, Jørgensen 2007c, Ahti et al. 2012

Leptogium burgessii (L.) Mont.

On deciduous trees or rock in damp, shaded sites.

S -
N Ro-MR
F -

Degelius 1936, Degelius 1968, Tønsberg et al. 1996, Jørgensen 1996, Bjelland 2001, Jørgensen 2007c, Ahti et al. 2012

Leptogium byssinum (Hoffm.) Zwackh ex Nyl.

Leptogium amphineum Ach. ex. Nyl.

Epiphloea byssina (Hoffm.) Henssen & P.M.Jørg.

Collema byssinum Hoffm.

On naked soil, preferably on clay.

S Sm Bh (Vg) (Nrk) (Vrm) Upl (Hls) TL(?)
N Op
F (EH) (PK) (Kn)

Jørgensen 2007d, Nordin 2008, Ahti et al. 2012, Jørgensen et al. 2013a, Hagström 2014, Schultz et al. 2015

Leptogium cochleatum (Dicks.) P.M.Jørg. & P.James

Leptogium azureum auct.

Leptogium tremelloides L.f., nom. illeg.

On old, often pollarded *Fraxinus*, sometimes other deciduous trees or on rock.

S -
N Ro Ho
F -

Tønsberg et al. 1996, Jørgensen 1996, Bjelland 2001, Jørgensen 2007c, Ahti et al. 2012

Leptogium cyanescens (Rabenh.) Körb.

Leptogium caesium (Ach.) Vain.

Leptogium tremelloides auct.

On rocks in shaded and humid places.

S (Sk) Sm-Jmt LuL
N Øf-No
F V-ES PH-Kn Ks-KiL

Degelius 1935, Jørgensen & James 1983, Löfgren & Moberg 1984, Arup et al. 1997, Thor & Arvidsson 1999, Bjelland 2001, Jørgensen 2007c, Ahti et al. 2012

Leptogium hibernicum M.E.Mitch. ex P.M.Jørg

On old, mossy tree trunks (*Fraxinus*).

S -
N Ro Ho
F -

Arvidsson 1986, Tønsberg et al. 1996, Jørgensen 1996, Bjelland 2001, Jørgensen 2007c, Ahti et al. 2012

Leptogium rivulare (Ach.) Mont.

Leptogium sernanderi Du Rietz

On often submerged rocks and tree roots and trunks.

S Ög Srm Upl Gst Dlr

N -

F (KiL)

Jørgensen & James 1983, Jørgensen 1994, Thor & Arvidsson 1999, Jørgensen 2007c, Ahti et al. 2012, Hagström 2012a, Larsson 2020a

Leptogium saturninum (Dicks.) Nyl.

Leptogium myochroum (Bernh.) Nyl.

On deciduous trees, primarily *Populus tremula*, sometimes on rock.

S Sk-TL

N Øf-Fi

F A-InL

Sierk 1964, Jørgensen 1975, Jørgensen 2007c, Ahti et al. 2012

Leptorhaphis atomaria (Ach.) Szatala

Campylacia atomaria (Ach.) Vain.

Campylacia sphenospora (Nyl.) Vain.

Verrucaria sphenospora Nyl.

Leptorhaphis tremulae auct., non Körb. s. str.

On *Populus tremula*.

S Sk-LuL

N Ak-Vf Ro Ho ST No-Fi

F V U St EH PH-Kn EnL InL

Perhaps facultatively lichenized.

von Keissler 1937a, Aguirre-Hudson 1991

+Leptorhaphis deformis Norman

Leptorhaphis confertior Norman

On bark of *Quercus* and *Betula*.

S -

N SF Fi

F -

A non-lichenized fungus.

Aguirre-Hudson 1991

+Leptorhaphis epidermidis (Ach.) Th.Fr.

Leptorhaphis albissima (Ach.) Norman

Campylacea epidermidis (Ach.) Vain.

Leptorhaphis oxyspora (Nyl.) Körb.

On bark of deciduous trees.

S Sk Öl-Vrm Upl Dlr Mdp-LyL LuL TL

N Ak Op Vf AA Ro-ST No-Fi

F A-ES PH-InL

A non-lichenized fungus.

Fries 1861, Aguirre-Hudson 1991

Leptorhaphis lucida Körb.

Leptorhaphis tremulae var. *lucida* (Körb.) Keissl.

On *Populus tremula*.

S Sm? Nrk?

N No (Gildeskaal Norman)

F -

Presumably lichenized.

Hellbom 1871a, Theorin 1892, von Keissler 1937a, Aguirre-Hudson 1991

+Leptorhaphis maggiana (A.Massal.) Körb.

On *Corylus*.

S Öl Sm

N -

F -

A non-lichenized fungus.

Aguirre-Hudson 1991, Bekking & Aptroot 2017

+Leptorhaphis parameca (A.Massal.) Körb.

Leptorhaphis xylographioides Norman

On *Prunus avium*.

S -

N Ak

F -

A non-lichenized fungus.

Aguirre-Hudson 1991

+Leptorhaphis psilotera (Nyl.) Arnold

Verrucaria psilotera Nyl.

On bark of *Daphne mezereum*.

S -

N No

F EH

A non-lichenized fungus.

Aguirre-Hudson 1991

Leptorhaphis quercus (Beltr.) Körb.

Uncertain application.

***Leptosphaerulina peltigerae (Fuckel) Riedl**

Pleospora peltigerae Fuckel

Sphaeria peltigerae Fuckel, (1867) nom. illeg.

On *Peltigera malacea*, *P. rufescens*, *Solorina saccata* (thallus).

S LuL TL

N Tr

F -

Santesson 1949, Riedl 1969, Hawksworth 1980b, Alstrup et al. 2008

Letharia vulpina (L.) Hue

Evernia vulpina (L.) Ach.

On wood of decorticated trees, snags, wooden roofs, worked timber, sometimes on acidic tree bark, e.g., Pinus, Picea and Betula.

S (Sk) ÖI Sm Vg Ög Vrm Upl-Jmt LyL (most common in Dlr Hrj)

N Ak-Bu Te MR ST

F (A)

Now extinct from many old localities.

Santesson 1939a, Ahlner 1948, Jørgensen & Ryvarden 1970, Tønsberg et al. 1996, Arup et al. 1997, Thor & Arvidsson 1999, Oldhammer 2002, Moberg & Thell 2011d

(*Leucogyrophana lichenicola Thorn et al.

Between podetia or inside hollow podetia of mat-forming *Cladonia* spp. (where sclerotia are formed), sometimes on the underside of litter beneath them.

S Dls

N Fi

F InL

Only sclerotia found in the area.

Thorn et al. 1998

***Libertiella fennica Alstrup**

On *Peltigera didactyla*, *P. neckeri* and *P. rufescens* (thallus).

S -

N Ho

F EH ES

Hawksworth & Miadlikowska 1997, Puolasmaa et al. 2012

***Libertiella malmedyensis Speg. & Roum.**

On *Peltigera didactyla*, *P. rufescens* (thallus).

S Srm-Upl

N -

F U St EH PH

Probably an anamorph of *Scutula epiblastematica*.

Hawksworth 1981b, Triebel et al. 1997, Puolasmaa et al. 2012

***Lichenochora constrictella (Müll.Arg.) Hafellner**

Arthopyrenia alpivaga Norman, nom. nud.

Pharcidia constrictella (Müll.Arg.) G. Winter

On *Fulgensia bracteata* (thallus).

S -

N Tr (Rostafjeld, Norman)

F -

Hafellner 1989

***Lichenochora inconspicua Hafellner**

On *Lecidoma demissum* (thallus).

S Jmt

N -

F -

Zhurbenko & Thor 2013

* **Lichenochora lepidotae (Anzi) Etayo & Nav.-Ros.**

Sphaerulina lepidiotae (Anzi) Vain.

On Parmeliella triptophylla (thallus).

S Bh (Näverkärr 2001 Tibell)

N -

F -

von Keissler 1930, Etayo & Navarro-Rosinés 2008

* **Lichenochora obscuroides (Linds.) Triebel & Rambold**

Lichenochora thallina (Cooke) Hafellner

Pharcidia thallina (Cooke) Lettau

On Physcia aipolia (thallus).

S TL (Abisko 1944 R. Santesson)

N -

F -

Hafellner 1989, Rambold & Triebel 1992

* **Lichenochora physciicola (Ihlen & R.Sant.) Hafellner**

Telogalla physciicola Ihlen & R.Sant.

On Physcia dubia (thallus).

S Mpd TL

N -

F -

Ihlen & Wedin 2005, Hafellner & Zimmermann 2012

* **Lichenochora polycoccoides Hafellner & R.Sant.**

On Physcia dubia (thallus).

S -

N -

F A V U EH EP OP

Hafellner 1989, Puolasmaa et al. 2008

* **Lichenochora wasseri S.Y.Kond.**

On Caloplaca sp. (thallus).

S Sk (Eslöv 1995 P. Frödén)

N -

F -

Navrotskaya et al. 1996

* **Lichenochora weillii (Werner) Hafellner & R.Sant.**

Didymella weillii Werner

On Physconia grisea, P. distorta (thallus).

S Sk Ög Upl

N -

F A V U EH

Hafellner 1989, Puolasmaa et al. 2008

***Lichenocodium cargillianum (Lindsay) D.Hawksw.**

On *Melanohalea septentrionalis*.

S -

N -

F Ks (Kuusamo 1965, Ahti)

Hawksworth 1977b, Hawksworth 1981b, Alstrup & Ahti 2007

***Lichenocodium erodens M.S.Christ. & D.Hawksw.**

On *Hypogymnia physodes*, *Ramalina fraxinea* *Lecanora conizaeoides* (thallus), *Parmelia sulcata*, *Platismatia glauca*, *Evernia prunastri* (soralia).

S Sk Sm Bh Vg Ög NrK Vrm Upl

N NT Tr

F ?PK

Hawksworth 1977b, Hawksworth 1981b, Christiansen 1993, Alstrup et al. 2008

***Lichenocodium lecanorae (Jaap) D.Hawksw.**

Coniosporium lecanorae Jaap

Lichenocodium parasiticum D.Hawksw.

On *Evernia prunastri*, *Lecanora conizaeoides*, *L. polytropia*, *L. carpinea*, *L. subcarnea*, *L. rupicola* ssp. *subradiosa*, *L. varia*, *Lecanora* sp., *Protoparmelia badia*, *Rhizoplaca subdiscordans*, *R. chrysoleuca*, *Squamarina lentigera* (thallus, apothecia).

S Sk ÖI Gtl Bh Vg Ög Srm Upl Hls Hlj Jmt LuL

N Op Ho ST

F V PS Ks

Santesson 1949, Hawksworth 1977b, Hawksworth 1981b, Santesson 1984b, Santesson 1994a, Santesson 1994b, Alstrup & Ahti 2007, Frisch et al. 2020a

***Lichenocodium lichenicola (P.Karst.) Petr. & Syd.**

Coniothyrium lichenicola P. Karst.

On *Physcia aipolia* (apothecia).

S -

N -

F A EH

Hawksworth 1977b, Hawksworth 1981b, Puolasmaa et al. 2008

***Lichenocodium pyxidatae (Oudem.) Petr. & Syd.**

On *Cladonia incrassata*, *C. pyxidata*, *C. subulata* (thallus).

S Vg

N Op Ho MR NT

F -

Hawksworth 1977b, Hawksworth 1981b, Santesson 1984b, Hafellner 1993b

***Lichenoconium usneae (Anzi) D.Hawksw.**

Lichenoconium lecanoracearum (Vouaux) Petr. & Sydow.

On *Anaptychia ciliaris*, *Hypogymnia physodes*, *Allantoparmelia alpicola*, *Melanohalea olivacea*, *M. exasperata*, *M. septentrionalis*, *Montanelia panniformis*, *Xanthoparmelia pulla*, *X. verruculifera*, *X. conspersa*, *Physcia aipolia*, *Cladonia* sp., *C. botrytes* (apothecia, thallus).

S Sk-TL
N Ho Tr
F A V EH ES

Santesson 1949, Hawksworth 1977b, Hawksworth 1981b, Hawksworth 1983a, Santesson 1984b, Santesson 1988, Hafellner 1993b, Santesson 1994a, Alstrup & Ahti 2007, Puolasmaa et al. 2008, Alstrup et al. 2008

***Lichenoconium xanthoriae M.S.Christ.**

On *Polycauliona polycarpa*, *Melanohalea olivacea*, *Cetraria sepincola* (apothecia, thallus).

S Sk-Upl Hrj ÅsL
N NT
F U

Santesson 1949, Christiansen 1956, Hawksworth 1977b, Hawksworth 1981b, Santesson 1984b, Santesson 1986

***Lichenodiplis lecanorae (Vouaux) Dyko & D.Hawksw.**

Ascochyula lecanorae (Vouaux) Keissl.

Diplodina lecanorae Vouaux

On *Caloplaca flavorubescens*, *C. cf. vitellinula*, *Mycoblastus affinis*, *Tephromela atra* (apothecia, thallus).

S Gtl Vg Upl Jmt TL
N Fi
F U

Santesson 1949, Hawksworth 1981b, Hawksworth 1983a, Santesson 1984b, Punithalingam 1988, Santesson 1998

***Lichenodiplis lichenicola Dyko & D.Hawksw.**

On *Rinodina septentrionalis*, *R. sophodes* (apothecia).

S -
N No Tr
F -

Incorrectly reported from F (refers to a Siberian specimen).

Hawksworth & Dyko 1979, Hawksworth 1981b

***Lichenodiplis opegraphae (D.Hawksw.) Diederich**

Laeviomyces opegraphae D.Hawksw.

On *Arthonia atra*, *Opegrapha vulgata* v. *vulgata* and v. *subsiderella* (apothecia).

S Sk Bl Bh
N -
F -

Hawksworth 1981b, Diederich 2003

***Lichenodiplis pertusariicola (Nyl.) Diederich**

Laeviomyces pertusariicola (Nyl.) D.Hawksw.

Lichenocodium pertusariicola (Nyl.) D.Hawksw.

On *Pertusaria leioplaca* (thallus).

S Sk Gtl Vg Hls

N -

F -

Hawksworth 1981b, Diederich 2003

Lichenomphalia alpina (Britzelm.) Redhead et al.

Omphalina alpina (Britzelm.) Bresinsky & Stangl

Cantharellus dovrefjeldensis Henn. & Kirschst.

Omphalina flava (Sommerf.) M.Lange

Omphalia luteovitellina Pilát & Nannf.

Omphalina luteovitellina (Pilát & Nannf.) M.Lange

Botrydina vulgaris Bréb. p. p.

Terricolous, on naked soil, among bryophytes, etc.

S Hrtj LuL TL

N Bu Ho-Fi

F Kn-InL

Høiland 1987, Jørgensen & Ryman 1989, Redhead et al. 2002

Lichenomphalia grisella (P.Karst.) Redhead et al.

Omphalina anthodia sensu Lundell

Omphalina grisella (P.Karst.) M.M.Moser

Terricolous on naked, sandy soil.

S "rare"

N "rare to occasional"

F -

Poelt & Jülich 1969, Lange 1992, Redhead et al. 2002

Lichenomphalia hudsoniana (H.S.Jenn.) Redhead et al.

Omphalina coriscium Gams, not validly publ.

Omphalina ericetorum in Poelt & Oberwinkler

Omphalina hudsoniana (H.S.Jenn) H.E. Bigelow

Normandina laetevirens (Borrer) Nyl.

Omphalina luteoilacina (A.Favre) D.M. Hend.

Coriscium viride (Ach.) Vain.

Normandina viridis (Ach.) Nyl.

Terricolous, on peat, humus, decaying wood, etc.

S Sk-TL

N Te-Fi

F A V EH Kn-InL

Høiland 1987, Jørgensen & Ryman 1989, Barrasa & Rico 2001, Redhead et al. 2002

Lichenomphalia umbellifera (L.:Fr.) Redhead et al.

Omphalina ericetorum (Pers.:Fr.) M.Lange

Omphalina pseudandrosacea (Bull.) M.M.Moser

Omphalina umbellifera (L.:Fr.) Quél.

Botrydina vulgaris Bréb. p.p.

Terricolous on soil rich in humus, on peat, dead bryophytes, decaying wood, etc.

S Sk-TL

N VA-Fi

F A-InL

Høiland 1987, Jørgensen & Ryman 1989, Barrasa & Rico 2001, Redhead et al. 2002

Lichenomphalia velutina (Quél.) Redhead et al.

Omphalina pseudandrosacea auct.

Omphalina velutina (Quél.) Quél.

Terricolous on naked soil, etc.

S Bl Sm Upl

N Ak-Tr

F A-ES KP-KiL EnL InL

Høiland 1987, Jørgensen & Ryman 1989, Barrasa & Rico 2001, Redhead et al. 2002

***Lichenopeltella cetrariicola (Nyl.) R.Sant.**

Lichenopeltella cetrariae (Bres.) Höhn.

Microthyrium cetrariae Bres.

Micropeltopsis cetrariicola (Nyl.) Vain.

Phragmothyrium cetrariicola (Nyl.) Keissl.

Sphaeria cetrariicola Nyl.

Trichothyria cetrariicola (Nyl.) D.Hawksw.

On *Cetraria islandica*, *Cetrariella delisei* (thallus).

S Hrj Jmt TL

N ST

F KiL

Hawksworth 1980a, Santesson 1984b, Spooner & Kirk 1990

***Lichenopeltella cladoniarum E.S.Hansen & Alstrup**

On *Cladonia mitis*, *C. stellaris* (podetia).

S Nb

N ST

F -

Hansen & Alstrup 1995

***Lichenopeltella hydrophila R.Sant.**

On *Verrucaria* sp. (thallus).

S Hrj (Ramundberget 1988 R. Santesson)

N -

F V

Santesson 2001

* **Lichenopeltella maculans (Zopf) Höhn.**

Microthyrium maculans Zopf

On *Umbilicaria hirsuta* (thallus).

S Vsm Upl Jmt

N Ak Bu AA SF

F -

von Keissler 1930

* **Lichenopeltella peltigericola (D.Hawksw.) R.Sant.**

Actinopeltis peltigericola D.Hawksw.

Micropeltopsis peltigericola (D.Hawksw.) P.M.Kirk & Spooner

On *Peltigera* spp., *Lobaria linita*, *Nephroma arcticum*.

S Hls Hrj

N NT Tr

F A-PK PeP-KiL EnL InL

Hawksworth 1982a, Spooner & Kirk 1990, Holien & Tønberg 1994, Puolasmaa et al. 2012, Suija & Jüriado 2020

* **Lichenopeltella santessonii (P.M.Kirk & Spooner) R.Sant.**

Micropeltopsis santessonii P.M.Kirk & Spooner in Spooner & P. M. Kirk

On *Peltigera* spp., *Lobaria linita*, *L. pulmonaria*, *Nephroma expallidum* (underside of thallus, occasionally also on upper side).

S Vsm Upl

N -

F A-PK PeP Ks KiL EnL InL

Santesson 1984b, Spooner & Kirk 1990, Puolasmaa et al. 2012

* **Lichenopuccinia poeltii D.Hawksw. & Hafellner**

On *Parmelia sulcata*.

S -

N ST NT No

F -

Hawksworth 1984, Holien & Tønberg 1994, Holien et al. 2016a, Frisch et al. 2020a

* **Lichenosticta alcornaria (Linds.) D.Hawksw.**

Dendrophoma alcornaria (Linds.) Vouaux

Phoma cladoniae (Allesch. & Schnabl) Keissl.

Guignardia fimbriatae (Vain.) Keissl.

Dendrophoma podetiicola (Zopf) Keissl.

On *Cladonia arbuscula*, *C. bellidiflora*, *C. cenotea*, *C. cornuta*, *C. fimbriata*, *C. pyxidata*, *C. ramulosa*, *C. symphycarpa* (podetia).

S Vrm Upl Mpd Hrj LyL LuL TL

N MR NT Tr

F V U St EH PH

Santesson 1949, Magnusson 1952a, Hawksworth 1981b, Hawksworth 1983a, Santesson 1984b, Hafellner 1993b, Santesson 1994a, Alstrup et al. 2008, Frisch et al. 2020a

***Lichenostigma "arctoparmeliae" R.Sant.**

On *Arctoparmelia centrifuga*, *A. incurva* (thallus).

S Nrk Srm Upl Dlr Hrj Jmt TL

N Ak Tr Fi

F ES

Alstrup et al. 2008

***Lichenostigma alpinum (R.Sant et al.) Ertz & Diederich**

Phaeosporobolus alpinus R.Sant. et al.

On *Lecanora argentata*, *L. confusa*, *Pertusaria dactylina*, *Ochrolechia frigida*, *Varicellaria rhodocarpa*, etc. (thallus).

S Öl Gtl Ög Upl Hrj Jmt LyL PL TL

N Op Ho ST NT Tr Fi

F V OP Ks-InL

Alstrup & Hawksworth 1990, Alstrup 1991, Santesson 1994a

***Lichenostigma cosmopolites Hafellner & Calatayud**

On *Xanthoparmelia conspersa*, *X. stenophylla* (thallus).

S Ög Srm Upl Dlr

N Op

F A V

Hafellner & Calatayud 1999, Calatayud et al. 2002, Alstrup & Ahti 2007

***Lichenostigma elongatum Nav.-Ros. & Hafellner**

On *Lobothallia radiosa*, and *Aspicilia calcarea* (thallus).

S Sm Öl Gtl Vg Ög Nrk Srm Vsm Upl

N Ak

F -

Navarro-Rosinés & Hafellner 1996, Calatayud et al. 2002

***Lichenostigma maureri Hafellner**

Phaeosporobolus usneae D.Hawksw. & Hafellner

On *Usnea* spp., *Letharia vulpina*, *Evernia* spp., *Ramalina fraxinea* (thallus).

S Ög Nrk Upl Dlr Gst Hls Hrj Jmt LyL

N He-Bu SF MR ST Fi

F U EH ES PS KP EnL

Hafellner 1982, Thor 1985, Suija & Jüriado 2020

***Lichenostigma supertegentis Ihlen & R.Sant.**

On *Aspicilia supertegens* (thallus, apothecia).

S Hrj Jmt ÅsL LyL LuL TL

N ST

F -

Ihlen 2004a

+Lichenothelia convexa Henssen

Saxicolous.

S Sm Vg Nrk Vrm Upl Dlr

N -

F -

Henssen 1987, Thor 1993b, Kocourková & Knudsen 2011

+Lichenothelia metzleri (Lahm) D.Hawksw.

Microthelia metzleri Lahm

On serpentine, schists and other basic rocks in alpine areas.

S -

N Te (Bamble 1994 Timdal)

F -

Hawksworth 1981a

***Lichenothelia rugosa (G.Thor) Ertz & Diederich**

Lichenostigma rugosum G.Thor, "rugosa"

On Diploschistes scruposus, D. muscorum, D. gypsaceus (thallus).

S Bl-TL

N Ak Op Tr Fi

F V

Thor 1985, Santesson 1986, Santesson 1988, Alstrup et al. 2008

+Lichenothelia scopularia (Nyl.) D.Hawksw.

Microthelia anthracina (Anzi) Arnold

Microthelia aterrima (Kremp. ex Anzi) Zahlbr.

Microthelia atramentea Norman

Microthelia scopularia (Nyl.) Blomb. & Forssell

Mainly on siliceous rock in damp sites.

S Bh-Upl Hls Jmt TL

N Op AA MR Fi

F St

Wirth 1973, Hawksworth 1981a

Lichina confinis (O.F.Müll.) C.Agardh

On seashore rocks, in the upper part of the Hydropunctaria maura zone.

S Bh-Sk-Upl

N Øf Ak Bu-Fi

F A-U

Faegri 1938, Litterski 1992, Jørgensen 2007e, Ahti et al. 2012

Lichina pygmaea (Lightf.) C.Agardh

On seashore rocks, in the lower part of the Hydropunctaria maura zone.

S -

N Ro-MR No

F -

Faegri 1938, Raven et al. 1990, Jørgensen 2007e, Ahti et al. 2012

Lichinella stipatula Nyl.

On calcareous rock near water.

S Dls

N -

F -

Nylander 1873c, Prieto et al. 2015

Lichinodium ahlneri Henssen

On twigs of *Picea abies*.

S (Vrm)

N ST-No

F -

Henssen 1963a, Holien & Tønsberg 1996, Jørgensen 2007e, Ahti et al. 2012

Lichinodium sirosiphoideum Nyl.

On the thallus of other lichens, especially *Parmelia saxatilis*, *Parmelia fraudans*, *Parmelia sulcata*, *Melanelia stygia* and *Pertusaria panyrga*, also on bryophytes and on rocks.

S Vsm Dlr Hrj Jmt LyL LuL TL

N Op Bu ST Tr Fi

F EH PK Kn InL

Henssen 1963a, Arvidsson 1979a, Elvebakk & Bjerke 2006, Jørgensen 2007e, Ahti et al. 2012

Lithographa tesserata (DC.) Nyl.

Placographa nivalis Th.Fr.

Lithographa petraea (Ach.) Nyl.

On acidic rock.

S Sm-Jmt

N Bu Ro-SF ST Fi

F PeP

Fries 1874, Degelius 1948a, Hertel & Rambold 1990

Lithographa varangrica (Th.Fr.) Zahlbr.

Placographa varangrica Th.Fr.

On acidic rock.

S TL

N Fi

F -

Is not a *Lithographa*.

Fries 1874, Vězda 1978a, Hertel & Rambold 1990, Alstrup 1991

***Llimoniella catapyrenii Zhurb. et al.**

On *Catapyrenium cinereum*.

S PL

N -

F -

Ekman et al. 2019a

***Llimoniella terricola (Arnold) M.Schultz et al.**

On *Moelleropsis nebulosa*.

S Sm (Barnarp 2014 M. Hagström)

N -

F -

Hagström 2014

***Llimoniella vinosa (Holien & Triebel) Diederich & Etayo**

Spirographa vinosa Holien & Triebel

On *Ochrolechia gowardii*, *O. juvenalis*, *Pertusaria* cf. *borealis* (thallus, apothecia margins).

S -

N He Op ST

F -

Holien & Triebel 1996, Diederich & Etayo 2000

Lobaria amplissima (Scop.) Forsell

Ricasolia amplissima (Scop.) De Not

Dendriscoaulon bolacinum Nyl.

Dendriscoaulon dendroides auct., european specimens

Lobaria laciniata (Huds.) Vain.

Dendriscoaulon umhausense (Auersw.) Degel., refers to the cephalodia

Polychidium umhausense (Auersw.) Henssen, refers to the cephalodia

On old, often mossy tree trunks, and on rocks.

S Sk-Nrk Vrm Gst Ång Hrj Jmt TL

N Øf-Fi (oceanic)

F EnL

Degelius 1935, James & Henssen 1976, Tønsberg & Holtan-Hartwig 1983, Löfgren & Moberg 1984, Nordin 1987, Hallingbäck & Thor 1988, Fritz 1992, Hultengren et al. 1993, Arup et al. 1997, Thor & Arvidsson 1999, Jørgensen & Tønsberg 2007, Ahti et al. 2012

Lobaria hallii (Tuck.) Zahlbr.

On trees near waterfalls and in humid forests.

S Dlr Jmt ÅsL LyL

N ST-Tr

F -

Ahlner 1948, Timdal 1987a, Timdal 1987a, Botnen & Tønsberg 1988, Tønsberg 1992b, Tønsberg et al. 1996, Thor & Arvidsson 1999, Hallingbäck 2003, Bjerke 2003a, Jørgensen & Tønsberg 2007, Ahti et al. 2012

Lobaria linita (Ach.) Rabenh.

On the ground in heaths and on mossy rocks.

S Dlr-TL

N NT-Fi

F EnL InL

Jørgensen & Tønsberg 2007, Ahti et al. 2012

Lobaria pulmonaria (L.) Hoffm.

On deciduous trees, also on Picea, rarely on rocks.

S Sk-TL

N Øf-Fi

F A-InL

Hallingbäck 1986, Hallingbäck & Olsson 1987, Andersson & Appelqvist 1987, Jørgensen & Tønsberg 2007, Gustafsson & Milberg 2008, Ahti et al. 2012

Lobaria scrobiculata (Scop.) DC.

Lobarina scrobiculata (Scop.) Nyl. ex Cromb.

Lobaria verrucosa (Huds.) Hoffm.

On mossy rocks and on tree trunks (*Salix caprea*, etc.).

S Sk-TL

N Øf-Fi

F A-InL

Hallingbäck 1986, Hallingbäck 1989, Holien & Hilmo 1991, Hultengren et al. 1993, Yoshimura 1998, Jørgensen & Tønsberg 2007, Ahti et al. 2012

Lobaria virens (With.) J.R.Laundon

Lobaria herbacea (Huds.) DC.

Lobaria laetevirens (Lightf.) Zahlbr.

Ricasolia laetevirens (Lightf.) Leight.

On shaded and often mossy trees and on rocks.

S Sk-Dls Vrm

N Øf Ak Bu-No (oceanic)

F -

Degelius 1935, Löfgren & Moberg 1984, Hultengren et al. 1993, Arup et al. 1997, Thor & Arvidsson 1999, Jørgensen & Tønsberg 2007, Ahti et al. 2012

Lobothallia alphoplaca (Wahlenb.) Hafellner

Aspicilia alphoplaca (Wahlenb.) Poelt & Leuckert

Lecanora alphoplaca (Wahlenb.) Ach.

Lecanora melanaspis var. *alphoplaca* (Wahlenb.) Th.Fr.

Acarospora polycarpa Th.Fr.

On humid, acidic rocks in alpine areas.

S -

N Op Fi

F -

Fries 1871, Hermann et al. 1973, Buschardt 1979, Hafellner 1991

Lobothallia melanaspis (Ach.) Hafellner

Aspicilia melanaspis (Ach.) Poelt & Leuckert

Lecanora melanaspis (Ach.) Ach.

Parmularia melanaspis (Ach.) Räsänen

Placolecanora melanaspis (Ach.) Räsänen

On acidic or slightly calcareous rock in the inundation zone on lake shores, streams, etc.

S Vg Dlr-TL

N Øf Ak-Bu Ho SF ST-Fi

F A-U St ES PH-PK Kn PeP-KiL EnL InL

Fries 1871, Hermann et al. 1973, Hafellner 1991

Lobothallia praeradiosa (Nyl.) Hafellner

Aspicilia praeradiosa (Nyl.) Poelt & Leuckert

Lecanora praeradiosa Nyl.

On calcareous schist.

S -

N Op (Vågå 1976 Poelt & Buschardt)

F -

Hermann et al. 1973, Poelt & Buschardt 1978, Poelt & Buschardt 1978, Buschardt 1979, Hafellner 1991

Lobothallia radiosa (Hoffm.) Hafellner

Lecanora circinata (Pers.) Ach.

Aspicilia radiosa (Hoffm.) Poelt & Leuckert

Lecanora radiosa (Hoffm.) Schaer.

Aspicilia subcircinata (Nyl.) Coppins

Lecanora subcircinata Nyl.

On calcareous rocks.

S Sk Öl Gtl Sm Dls-Gst

N Ak He Bu ST

F -

Fries 1871, Hermann et al. 1973, Buschardt 1979, Hafellner 1991

Lobothallia recedens (Taylor) A.Nordin et al.

Lecanora bohémica (Körb.) H.Magn.

Lecanora griseola Th.Fr.

Aspicilia recedens (Taylor) Arnold

Lecanora recedens (Taylor) Nyl.

On siliceous, humid rocks.

S Bl Öl? Bh Ög-Vb

N No

F A EH-EP PeP

Fries 1871, Magnusson 1939a, Degelius 1982

Lopadium coralloideum (Nyl.) Lyngé

Sporopodium coralloideum (Nyl.) Vain.

Lopadium pezizoideum var. *coralloideum* (Nyl.) Th.Fr.

Lopadium pezizoideum var. *musciicola* p.p. sensu Th. Fries

Sporopodium pezizoideum subsp. *coralloideum* (Nyl.) Vain.

On bryophytes and plant debris, especially in subalpine and alpine areas.

S Nrk Vrm Hrj-TL

N He-Bu Te Ro-SF ST-Fi

F PS KP Ks KiL EnL InL

Fries 1874, Poelt & Vězda 1981

Lopadium disciforme (Flot.) Kullh.

Lopadium pezizoideum var. *disciforme* (Flot.) Korb.

Sporopodium pezizoideum var. *disciforme* (Flot.) Vain.

On bark of deciduous trees and *Picea*.

S Sk Sm-Hls Ång Jmt ÅsL

N Ak-AA Ro Ho ST-No

F A U St-ES PH-PK Kn

Kullhem 1871, Fries 1874, Poelt & Vězda 1981, Botnen & Tønsberg 1988

Lopadium pezizoideum (Ach.) Korb.

Lopadium pezizoideum var. *musciicola* (Sommerf.) Th.Fr. p.p. sensu Th. Fries 1874

Sporopodium pezizoideum var. *musciicola* (Sommerf.) Vain.

Sporopodium pezizoideum (Ach.) Vain.

On bryophytes and plant debris, especially in subalpine and alpine areas.

S Sm Vg Nrk Dlr Mpd Ång Hrj-TL

N Ak-Bu Te AA Ro-Fi

F EH PK Ks KiL EnL InL

Fries 1874, Poelt & Vězda 1981

Loxospora elatina (Ach.) A.Massal.

Lecanora chloropolia (Erichsen) Almb.

Pertusaria chloropolia Erichsen

Haematomma elatinum (Ach.) A.Massal.

Mostly on acidic tree bark, primarily *Picea*, sometimes on other conifers or deciduous trees and shrubs.

S Sk-ÅsL

N VA-No

F A-PK Kn OP

Fries 1871, Almborn 1955b, Tønsberg 1992b

***Marchandiomyces corallinus (Roberge) Diederich & D.Hawksw.**

Illosporium corallinum Roberge

Illosporium roseum auct., non C.Mart.

On *Melanohalea olivacea*, *M. exasperata*, *Montanelia panniformis*, *Parmelia saxatilis* (thallus).

S HI Bh

N Op ST Tr

F U? EH? PS

Hawksworth 1979a, Diederich 1989, Diederich 1990, Etayo & Diederich 1996b, Alstrup et al. 2008, Westberg & Thor 2014

Marchantiana asserigena (Lahm) Søchting & Arup

Caloplaca asserigena (Lahm) H.Olivier

Caloplaca assigena (Lahm ex Arnold) Dalla Torre & Saroth.

On *Helianthemum oelandicum*.

S ÖI (Ås 1999 Fröberg)

N -

F -

Søchting & Fröberg 2003, Søchting & Arup 2018

Maronea constans (Nyl.) Hepp

On smooth bark of *Fagus*.

S (Sk)

N -

F -

Extinct. Not seen since 1890.

Malme 1923b, Almborn 1948, Arup et al. 1997, Thor & Arvidsson 1999

Massalongia carnosa (Dicks.) Körb.

On bryophytes on somewhat moist, siliceous rocks.

S Sk-TL

N Øf-Fi

F A-Kn PeP-KiL InL

Jørgensen 2007f, Ahti et al. 2012

Megalaria grossa (Pers. ex Nyl.) Hafellner

Catillaria grossa (Nyl.) Körb.

Catinaria grossa (Pers. ex Nyl.) Vain.

Catillaria leucoplaca auct.

Lecidea premnea sensu Fr.

Primarily on rough bark of deciduous trees, rarely on bryophytes or on rock.

S Sk-Hls Jmt

N Øf Ak Bu-No

F U

Fries 1874, Hafellner 1984, Arup et al. 1997, Thor & Arvidsson 1999

Megalaria jemtlandica (Th.Fr. & Almq.) Fryday

Catillaria jemtlandica Th.Fr. & Almq.

Lecidea sublimosa Nyl.

On bryophytes or naked soil.

S Jmt LuL TL

N -

F -

Fries 1874, Magnusson 1952a, Printzen 1995, Fryday 2004

Megalaria laureri (Hepp ex Th.Fr.) Hafellner

Catillaria intermixta auct., non (Nyl.) Arnold

Catinaria intermixta auct.

Lecidea intermixta sensu Nyl., non Nyl. 1855

Catillaria laureri Hepp ex Th.Fr.

Catinaria laureri (Hepp ex Th.Fr.) Degel.

Bilimbia subsphaeroides (Nyl.) Galløe

Lecidea subsphaeroides Nyl.

On bark of deciduous trees, mainly Fagus.

S Sk-Bh Vg Ög

N -

F -

Almborn 1948, Nimis 1993, Arup et al. 1997, Thor & Arvidsson 1999

Megalaria pulverea (Borrer) Hafellner & E.Schreiner

Pertusaria miniescens Erichsen

Catillaria pulverea (Borrer) Lettau

Catillochroma pulverea (Borrer) Kalb

Catinaria pulverea (Borrer) Vězda & Poelt

On acidic bark of deciduous trees in shaded, damp sites, sometimes on bryophytes.

S Sk Bh Dls Vg

N VA-No

F -

Jørgensen & Øvstedal 1975, Poelt & Vězda 1981, Tønsberg 1992b, Schreiner & Hafellner 1992, Arup et al. 1997, Tønsberg 1997, Thor & Arvidsson 1999, Kalb 2007, Fritz 2010

Megalospora pachycarpa (Delise ex Duby) H.Olivier

Bombyliospora incana A.L.Sm.

Bombyliospora pachycarpa (Delise ex Duby) A.Massal.

Bombyliospora tuberculosa auct., non (Fée) Sipman s. str.

Corticolous.

S -

N Ro Ho

F -

Sipman 1983, Tønsberg 1992b, Jørgensen 1996, Hafellner & Türk 2001

Megaspora verrucosa (Ach.) Hafellner & V.Wirth

Pertusaria freyi Erichsen

Lecanora mutabilis (Ach.) Nyl, non Sommerf.

Pachyospora mutabilis (Ach.) A.Massal.

Lecanora urceolaria "(Fr.)" Wetmore

Amygdalaria verrucosa (Ach.) Norman

Aspicilia verrucosa (Ach.) Körb.

Lecanora verrucosa (Ach.) Laurer, non Ach.

Pachyospora verrucosa (Ach.) A.Massal.

Mainly on bryophytes on calcareous soil, sometimes on bark or lignum.

S ÖI Gtl Vrm Dlr Hls Hrij-TL

N He-Bu Ho ST-Fi

F V U St EH PeP Ks EnL InL

Fries 1871, Wetmore 1968, Eigler 1969, Hertel 1971b, Clauzade & Roux 1984

Melanelia agnata (Nyl.) A.Thell

Cetraria agnata (Nyl.) H.Krist.

On rocks and boulders, especially in open places in alpine and subalpine regions.

S LyL LuL TL

N Op ST No Tr Fi

F -

Kristinsson 1974, Thell 1995, Westberg et al. 2004, Westberg & Thell 2011b

Melanelia hepatizon (Ach.) A.Thell

Cetraria fahlunensis sensu Schaer. etc.

Cetraria hepatizon (Ach.) Vain.

Tuckermannopsis hepatizon (Ach.) Kurok.

On rocks and boulders.

S Gtl Bh Vg-Dlr Hls-TL

N Øf-Fi

F A-InL

Poelt & Vězda 1981, Thell 1995, Westberg & Thell 2011b

Melanelia stygia (L.) Essl.

Cetraria fahlunensis auct. p.p.

Parmelia stygia (L.) Ach.

On siliceous rock.

S Bl Gtl-TL

N Øf-Fi

F A-InL

Esslinger 1977, Esslinger 1978, Westberg & Thell 2011b

Melanelixia fuliginosa (Fr. ex Duby) O.Blanco et al.

Melanelixia fuliginosa (Fr. ex Duby) Essl.

Parmelia fuliginosa (Fr. ex Duby) Nyl.

Saxicolous, rarely corticolous.

S Sk-Dlr Hls-Jmt ÅsL-LuL (rare in N. Sweden)

N Øf-Tr

F A-Kn SoL

Esslinger 1977, Esslinger 1978, Esslinger 1990, Hafellner & Türk 2001, Coppins 2002, Blanco et al. 2004, Westberg & Thell 2011c, Arup & Sandler Berlin 2011

Melanelixia glabra (Schaer.) O.Blanco et al.

Melanelixia glabra (Schaer.) Essl

Parmelia glabra (Schaer.) Nyl.

On *Acer platanoides*, nitrophilous.

S -

N -

F V

Esslinger 1977, Esslinger 1990, Puolasmaa 1992, Blanco et al. 2004, Westberg & Thell 2011c

Melanelixia glabratula (Lamy) Sandler & Arup

Melanelixia fuliginosa subsp. *glabratula* (Lamy) Coppins

Melanelixia fuliginosa subsp. *glabratula* (Lamy) Laundon

Parmelia fuliginosa var. *laetevirens* (Flot. ex Körb.) Nyl.

Melanelixia glabratula (Lamy) Essl., nom. illeg.

Parmelia glabratula Lamy

Parmelia laetevirens (Flot. ex Körb.) F.Rosend., nom. illeg.

Corticolous, rarely saxicolous.

S Sk-Vb ÅsL-PL TL (rare in N. Sweden)

N VA-Tr

F A-Kn Ks EnL

Esslinger 1977, Esslinger 1978, Esslinger 1990, Hafellner & Türk 2001, Coppins 2002, Blanco et al. 2004, Westberg & Thell 2011c

Melanelixia subargentifera (Nyl.) O.Blanco et al.

Melanelixia subargentifera (Nyl.) Essl.

Parmelia subargentifera Nyl.

On bark of sun-exposed deciduous trees, in the north on (usually soft) rock, rarely on wood.

S Sk-Jmt Vb TL(1 loc.)

N Ak-Fi

F A-U EK EH-Kn PeP Ks SoL InL

Esslinger 1977, Esslinger 1978, Blanco et al. 2004, Westberg & Thell 2011c

Melanelixia subaurifera (Nyl.) O.Blanco et al.

Melanelixia subaurifera (Nyl.) Essl.

Parmelia subaurifera Nyl.

On trunks and branches of deciduous trees, rarely on rock.

S Sk-Bh Vg-LyL LuL TL (rare in N. Sweden)

N Øf-Fi

F A-SoL InL

Esslinger 1977, Esslinger 1978, Blanco et al. 2004, Westberg & Thell 2011c

Melanohalea elegantula (Zahlbr.) O.Blanco et al.

Melanelixia elegantula (Zahlbr.) Essl.

Parmelia elegantula (Zahlbr.) Szatala

Collema exasperatum Ach.

Melanelixia incolorata (Parrique) Essl.

Parmelia incolorata (Parrique) Lettau

On bark of sun-exposed deciduous trees.

S Sk Bl HI Bh Vg

N Vf Ro SF

F -

Almborn 1948, Degelius 1968, Østhagen 1976, Esslinger 1977, Esslinger 1978, Thell 1987, Tønsberg et al. 1996, Arup et al. 1997, Thor & Arvidsson 1999, Blanco et al. 2004, Westberg & Thell 2011d

Melanohalea exasperata (De Not.) O.Blanco et al.

Parmelia aspera A.Massal.

Parmelia aspidota (Ach.) Poetsch

Melanelixia exasperata (De Not.) Essl.

Parmelia exasperata De Not.

On deciduous trees, rarely on conifers, sometimes on lignum or on rock.

S Sk-TL

N Øf-Fi

F A-Ks SoL InL

Esslinger 1977, Esslinger 1978, Blanco et al. 2004, Westberg & Thell 2011d

Melanohalea exasperatula (Nyl.) O.Blanco et al.

Melanelixia exasperatula (Nyl.) Essl.

Parmelia exasperatula Nyl.

Parmelia papulosa (Anzi) Vain.

On deciduous trees or sometimes conifers, occasionally on lignum, in the north on more or less soft calcareous rock.

S Sk-LyL LuL TL

N Øf-Fi

F A-KiL

Esslinger 1977, Esslinger 1978, Blanco et al. 2004, Westberg & Thell 2011d

Melanohalea infumata (Nyl.) O.Blanco et al.

Parmelia elegantula p.p. sensu Essl.

Parmelia elegantula subsp. *infumata* (Nyl.) Clauzade & Cl.Roux

Melanelia infumata (Nyl.) Essl.

Parmelia infumata Nyl.

On soft crystalline schist, sometimes on calcareous rock.

S Dlr Hls Hrj-TL

N He Op SF-ST

F PH Kn-Ks SoL-InL

Hakulinen 1966, Esslinger 1977, Blanco et al. 2004, Westberg & Thell 2011d

Melanohalea laciniatula (Flagey ex H.Olivier) O.Blanco et al.

Melanelia laciniatula (Flagey ex H.Olivier) Essl.

Parmelia laciniatula (Flagey ex H.Olivier) Zahlbr.

On bark of sun-exposed deciduous trees.

S Sk Bl Gtl-Bh Vg

N Bu VA-Ho

F -

Almborn 1948, Degelius 1968, Esslinger 1977, Esslinger 1978, Thell 1987, Tønberg et al. 1996, Arup et al. 1997, Thor & Arvidsson 1999, Blanco et al. 2004, Westberg & Thell 2011d

Melanohalea olivacea (L.) O.Blanco et al.

Melanelia olivacea (L.) Essl.

Parmelia olivacea (L.) Ach.

On acidic bark of deciduous trees (mainly *Betula*), sometimes on lignum, rarely on rock.

S Sk-TL

N Øf-Fi

F A-InL

Ahti 1966, Esslinger 1977, Esslinger 1978, Sonesson 1990, Blanco et al. 2004, Westberg & Thell 2011d

Melanohalea septentrionalis (Lyngé) O.Blanco et al.

Parmelia olivacea var. *septentrionalis* Lyngé.

Melanelia septentrionalis (Lyngé) Essl.

Parmelia septentrionalis (Lyngé) Ahti

Mainly on *Salix* and *Alnus*, sometimes on other deciduous trees.

S Sm Ög Vrm-Jmt Nb LuL

N Øf-Te Ho MR ST NT Tr Fi

F A-InL

Ahti 1966, Esslinger 1977, Esslinger 1978, Blanco et al. 2004, Westberg & Thell 2011d

Melanolechia transitoria (Arnold) Hertel

Not in F, N or S.

Hertel 1983b

Melaspilea coryli Vain.

Unknown application.

Melaspilea enteroleuca (Ach.) Ertz & Diederich

Lecidea enteroleuca Ach.

Not in F, N or S.

Ertz & Diederich 2015

+Melaspilea lentiginosula (Nyl.) A.L.Smith

On smooth bark of *Pinus sylvestris*.

S -

N Ho SF MR NT No

F -

Jordal et al. 2017

Melaspilea ochrothalamia Nyl.

On *Quercus*.

S -

N VA Ro

F -

To *Schrankia* Hafellner?

Redinger 1938, Poelt 1969, Skjolddal 1982, Jørgensen 1996

Melaspilea urceolata (Fr.) Ertz & Diederich

Lecidea arthonioides Fée, nom. illeg.

Melaspilea arthonioides Nyl.

Melaspilea urceolata (Fr.) Almb., comb. inval.

Not in F, N or S.

Menegazzia subsimilis (H.Magn.) R.Sant.

Menegazzia dissimilis (Passadina) Hafellner

On deciduous trees, often *Alnus*, in damp sites.

S Bh Vg

N Ro Ho

F -

Santesson 1942, Hafellner 1997b, Bjerke 2003b, Westberg 2004, Bjerke & Timdal 2006, Nordén 2006, Westberg & Thell 2011e, Blom et al. 2015

Menegazzia terebrata (Hoffm.) A.Massal.

Menegazzia pertusa (Schrank) Stein

Parmelia pertusa (Schrank) Schaer.

On tree bark (often *Alnus*) or on rock in damp and shaded sites.

S Sk Sm Bh-Gst Jmt

N He-Bu Te VA-MR No

F EH ES PH

Rassadina 1964, Østhagen 1976, Kuusinen et al. 1993, Tønsgberg et al. 1996, Arup et al. 1997, Thor & Arvidsson 1999, Westberg & Thell 2011e

***Merismatium cladoniicola** Alstrup

On *Cladonia ciliata* ("ciliaris") (thallus).

S -

N NT (Flatanger 1993 Alstrup)

F -

Not a *Merismatium*.

Alstrup 1997

***Merismatium coccisporum** (Norman) Vouaux

Endococcus coccisporus Norman

On *Euopsis pulvinata*, *E. granatina*, *Amygdalaria consentiens*, *A. panacola*, *A. pelobotryon*, *A. elegantior* (thallus).

S Vg Jmt ÅsL LyL TL

N Bu Ho No Tr

F InL

Norman 1868, Triebel 1989

***Merismatium decolorans** (Rehm ex Arnold) Triebel

Phaeospora decolorans Rehm ex Arnold

On *Mycobilimbia berengeriana*, *Trapeliopsis granulosa* (thallus).

S LyL LuL TL

N -

F EH

Triebel 1989

***Merismatium heterophractum** (Nyl.) Vouaux

Phaeocyrtis consocians (Nyl.) Vain.

Phaeospora consocians (Nyl.) Vouaux

Endococcus heterophractus Nyl.

On *Biatora subduplex*, *B. vernalis*, *Lepraria neglecta* (thallus).

S Upl TL

N Tr

F EH

Santesson 1949, Triebel 1989, Kümmerling et al. 1993, Alstrup et al. 2008

***Merismatium nigrillum** (Nyl.) Vouaux

Celidium lopadii Anzi

Merismatium lopadii (Anzi) Zopf

Polyblastia lopadii (Anzi) H.Olivier

Leciographa urceolata var. *lopadii* (Anzi) Sacc. & D.Sacc.

On *Lopadium pezizoideum*, *Micarea* sp., *Mycobilimbia* cf. *berengeriana* (thallus).

S Hrtj Jmt LyL TL

N Ho Tr

F PS

Magnusson 1952a, Triebel 1989, Alstrup & Ahti 2007, Alstrup et al. 2008

***Merismatium peregrinum (Flot.) Triebel**

Phaeospora peregrina (Flot.) Arnold

On Rimularia badioatra, R. intercedens (thallus).

S Bh Srm-Vsm

N -

F -

Hertel & Rambold 1990

***Merismatium thamnoliicola Alstrup & E.S.Hansen**

On Thamnolia vermicularis.

S -

N ST

F -

Zhurbenko & Ohmura 2018

Metamelanea caesiella (Th.Fr.) Henssen

Metamelaena caesiella (Th.Fr.) Henssen, orth. var.

Psorotichia caesiella (Th.Fr.) Forssell

Pyrenopsis caesiella Th.Fr.

On siliceous rocks.

S Öl Gtl Srm

N Ak ST

F -

Henssen & Jørgensen 1990, Jørgensen 2007e, Jørgensen & Nordin 2009, Ahti et al. 2012, Prieto et al. 2015

Metamelanea umbonata Henssen

On wet calcareous rocks.

S Dls

N -

F PeP

Jørgensen 2007e, Ahti et al. 2012, Prieto et al. 2015

Micarea adnata Coppins

On tree bases and on old stumps.

S Bl Öl Gtl Hl Ög Srm

N Ro Ho

F -

Coppins 1983, Arup & Ekman 1989, Thor & Arvidsson 1999, Kåll & Tønsberg 2002

Micarea alabastrites (Nyl.) Coppins

Mainly on bark of Pinus, sometimes on Betula, rarely on bryophytes on rock.

S -

N Ro Ho SF

F -

Coppins 1983, Jørgensen 1996, Nordin & Hermansson 1999, Blom et al. 2015

Micarea anterior (Nyl.) Hedl.

Catillaria anterior (Nyl.) Malme

Lecidea anterior Nyl.

On decaying coniferous wood.

S Srm-Hrj

N -

F EH

Hedlund 1892, Malme 1923a, Coppins 1983

Micarea assimilata (Nyl.) Coppins

Lecidea assimilata Nyl.

Terricolous and on dead bryophytes.

S Vrm Dlr Ång Jmt-TL

N He Op Te Ho ST-Fi

F PK Kn Ks KiL EnL InL

Fries 1874, Coppins 1983

Micarea botryoides (Nyl.) Coppins

Lecidea apochroella var. *botryoides* Nyl.

Lecidea botryoides (Nyl.) Zahlbr.

On rocks in shade.

S Sk Hl-Dls Vg Ög Upl Dlr Hls

N Op Te VA-Ho ST-No

F EH

Coppins 1983, Muhr 1987b, Arup & Ekman 1989

Micarea byssacea (Th.Fr.) Czarnota et al.

Catillaria prasina var. *byssacea* Th.Fr.

On bark and lignum.

S Sk Öl Gtl Sm Vg Ög Nrk Srm Vsm Upl

N -

F St

Czarnota & Guzow-Krzeminska 2009

Micarea capitata M.Svensson & G.Thor

On *Hylocomium splendens* on rocks in open forests.

S Hrj

N No

F -

Svensson & Thor 2011, Svensson et al. 2017b

Micarea cinerea (Schaer.) Hedl.

Bacidia cinerea (Schaer.) Trevis.

On tree bark or on plant debris on the ground.

S Nrk Srm Vsm Dlr Hls LuL

N Ro Ho MR-No Tr

F -

Hedlund 1892, Coppins 1983, Holien & Hilmo 1991, Elvebakk & Bjerke 2006

Micarea contexta Hedl.

Catillaria contexta (Hedl.) Zahlbr.

On lignum (pine wood).

S Vrm Dlr Hls Ång Jmt LuL

N ST NT

F V U EH PK Kn

Hedlund 1892, Coppins 1983, Holien et al. 2016a, Myllys & Launis 2018, Frisch et al. 2020a

Micarea coppinsii Tønsberg

Primarily on *Calluna*, also on branches of deciduous trees and shrubs, *Juniperus*, *Erica*, *Pinus* etc.

S -

N Ro-SF NT

F -

Tønsberg 1992b, Jørgensen 1996, Tønsberg 1997

Micarea czarnotae Launis et al.

On bark of *Pinus sylvestris*, *Picea abies*, *Quercus* sp., also on wood and twigs of *Alnus glutinosa*.

S Gtl Vrm

N -

F V U

Launis et al. 2019b, Kantelinen et al. 2021

Micarea deminuta Coppins

On wood.

S -

N AA

F -

Svensson et al. 2017b

Micarea denigrata (Fr.) Hedl.

Lecidea anomala f. *pyrenothizans* Nyl.

Lecidea cinereopallens Vain.

Catillaria denigrata (Fr.) Hedl.

Lecidea denigrata var. *submisella* Nyl.

Micarea denigrata var. *friesiana* Hedl.

Catillaria hemipoliella (Nyl.) Blomb. & Forssell

Lecidea hemipoliella Nyl.

Micarea hemipoliella (Nyl.) Vězda

Catillaria synothea auct., non *Lecidea synothea* Ach. nom. rej.

Lecidea synothea auct.

On lignum, bark (*Alnus*, *Juniperus*, etc.), dead polypores, etc.

S Sk-LuL

N Øf Ak Op-Vf Ho MR ST-No Tr

F A-U St-PS Kn-Ks InL

Hedlund 1891, Hedlund 1892, Poelt 1977a, Coppins 1983, Elvebakk & Bjerke 2006

Micarea elachista (Körb.) Coppins & R.Sant.

Lecidea anomala subsp. *glomerella* Nyl.

Catillaria elachista (Körb.) Vain.

Catillaria glomerella (Nyl.) Th.Fr.

Lecidea glomerella f. *simplicata* Nyl.

Micarea glomerella (Nyl.) Hedl.

Lecidea poliococca Nyl.

Lecidea sororians Nyl.

On decaying wood, rarely on coniferous bark.

S ÖI Ög-Ång

N Ak

F U St EH EP-PK PeP

Fries 1874, Coppins 1983

Micarea erratica (Körb.) Hertel et al.

Lecidea chalybeiza Nyl., uncertain synonym

Lecidea demarginata Nyl.

Lecidea dispansa Nyl

Lecidea erratica Körb.

Lecidea erratica f. *demarginata* (Nyl.) Vain.

Leimonis erratica (Körb.) R.C.Harris & Lendemmer

Lecidea expansa Nyl. ex Mudd

Lecidea pithyophiloides (Vain.) H.Magn.

Lecidea plebeja var. *pithyophiloides* Vain.

Saxicolous, especially on small stones.

S Sk-Upl Hls Ång Jmt LuL

N Ak Ho No

F V U EH PK Ks

Fries 1874, Rambold 1989

Micarea eximia Hedl.

Catillaria malmeana Zahlbr., non *Catillaria eximia* Malme

On lignum.

S Vrm Dlr Hls Ång

N SF

F Ks

Hedlund 1892, Coppins 1983

Micarea fallax Launis & Myllys

On bark and decaying wood.

S Sm Vrm Hls

N Ho

F V U Kn

Launis et al. 2019a, Kantelinen et al. 2021

Micarea farinosa Coppins & Aptroot

On rock under overhangs.

S Ög Dlr

N -

F -

Westberg & Svensson 2012

Micarea fennica Launis & Myllys

On soft lignum of *Pinus sylvestris*.

S -

N Op

F EH PH

Launis & Myllys 2019, Klepsland 2020

Micarea globulosella (Nyl.) Coppins

Micarea bacidiella, sensu Vězda & V. Wirth

Bacidia globulosella (Nyl.) Zahlbr.

Lecidea globulosella Nyl.

Mostly on bark and lignum of *Picea*, sometimes on deciduous tree and shrubs and on *Juniperus*.

S Nrk Vrm Vsm Dlr-Hls Ång-Vb ÅsL

N ST-No

F EH PH

Hedlund 1892, Coppins 1983, Holien 1992b, Thor 1992a, Thor & Arvidsson 1999

Micarea hedlundii Coppins

On decaying, decorticated conifer stumps.

S Vrm Vsm Upl Dlr Hls Jmt Vb ÅsL

N Op

F Ks?

Coppins 1983, Muhr 1987a

Micarea hylocomii Poelt & Döbbeler

Overgrowing *Hylocomium splendens*.

S Hrj Jmt Vb ÅsL

N Ho (Lindås 1976 Poelt & Buschardt)

F -

Poelt & Döbbeler 1975b, Poelt & Buschardt 1978, Coppins 1983, Jørgensen 1996, Svensson et al. 2017b

Micarea incrassata Hedl.

Lecidea assimilata var. *infusata* Th.Fr.

Terricolous and on dead bryophytes.

S Ång Hrj Jmt LyL LuL TL

N Op Ho MR-Fi

F Ks KiL

Hedlund 1892, Coppins 1983

***Micarea inquinans (Tul.) Coppins**

Abrothallus inquinans Tul.

Lecidea inquinans (Tul.) Nyl.

Nesolechia inquinans (Tul.) A.Massal.

On Dibaeis baeomyces (thallus).

S LuL?

N No Fi

F Ks

Rambold & Triebel 1992, Ihlen 1998, Ihlen 1998

Micarea laeta Launis & Myllys

On bark of Betula sp. and bark and wood of Picea abies.

S Gtl Vg Srm

N -

F U EH

Launis et al. 2019b, Kantelinen et al. 2021

Micarea lapillicola (Vain.) Coppins & Muhr

Lecidea cyrtidia auct., non Tuck.

Lecidea lapillicola Vain.

Micarea sundellii Coppins & Muhr, nom. nud.

On siliceous rocks.

S Vrm Hls Hrj LuL

N Bu Ho SF Tr

F PS PK Kn

Magnusson 1942a, Magnusson 1952a, Hertel 1969b, Hertel 1977a, Coppins & Muhr 1997, Frisch et al. 2020a

Micarea leprosula (Th.Fr.) Coppins & A.Fletcher

Bacidia leprosula (Th.Fr.) Lettau

Bilimbia miliaria var. *leprosula* Th.Fr.

On decaying bryophytes or thin soil on rock, sometimes on tree bark, rarely on lignum.

S Sk-Upl Hls

N Ak VA-SF NT

F -

Hedlund 1892, Magnusson 1934, Fletcher 1975a, Coppins 1983, Tønsberg 1992b

Micarea lignaria (Ach.) Hedl.

Bilimbia lignaria (Ach.) A.Massal.

Hedlund 1892, Ahlner 1940, Magnusson 1942b, Vězda 1970b, Coppins 1983, Tønsberg 1992b

Micarea lignaria (Ach.) Hedl. var. endoleuca (Leight.) Coppins

On Alnus glutinosa.

S -

N Ho (Lindås 1980 Tønsberg)

F -

Coppins 1983, Tønsberg 1992b

Micarea lignaria (Ach.) Hedl. var. lignaria

Bacidia gomphillacea (Nyl.) Zahlbr.

Bilimbia gomphillacea (Nyl.) Vain.

Micarea gomphillacea (Nyl.) Vězda

Stereocauliscum gomphillaceum Nyl.

Bacidia granulans sensu H.Magn.

Bacidia lignaria (Ach.) Lettau

Bilimbia lignaria (Ach.) Arnold

Bacidia miliaria (Fr.) Körb.

On bryophytes on rocks, also on soil, decaying wood and rocks.

S Sk-TL

N Øf Ak Bu Te-SF ST-No

F V U EH PS PK Ks EnL InL

Magnusson 1942b, Ahlner 1944, Vězda 1970b, Coppins 1983

Micarea lithinella (Nyl.) Hedl.

Lecidea lithinella Nyl.

On siliceous rocks (phyllite, etc.).

S Sk Sm Ög-Vrm Vsm Upl Dlr Gst Hls

N Ho

F V EK EH

Hedlund 1892, Coppins 1983, Botnen 1984, Berglund & Andersson 2008

Micarea lynceola (Th.Fr.) Palice

Micarea excipulata Coppins

Lecidea lynceola Th.Fr.

Saxicolous.

S Ög

N Ak Ho

F EH

Coppins 1988b, Hafellner & Türk 2001, Jørgensen & Nordin 2009, Svensson et al. 2017b, Frisch et al. 2020a

Micarea marginata Coppins & Muhr

On siliceous boulders and vertical rocks near or in creeks.

S Vg Vrm Jmt TL

N -

F -

Coppins 1988b, Svensson et al. 2011

Micarea melaena (Nyl.) Hedl.

Catillaria contristans sensu H.Magn.

Bacidia melaena (Nyl.) Zahlbr.

Bilimbia melaena (Nyl.) Arnold

On more or less decaying wood, plant debris, peat, etc.

S Sk-TL

N Ak Op Bu Te AA Ro-No Tr Fi

F V-PK Kn-InL

Hedlund 1892, Coppins 1983, Elvebakk & Bjerke 2006

Micarea melaeniza Hedl.

Lecidea melaeniza (Hedl.) Zahlbr.

On more or less decaying coniferous wood.

S Sm Hls Ång

N -

F U

Hedlund 1892, Coppins 1983, Thor & Arvidsson 1999, Czarnota 2007, Myllys & Launis 2018

Micarea melanobola (Nyl.) Coppins

Catillaria melanobola (Nyl.) B.de Lesd.

Catillaria melanobola (Nyl.) Vain.

Lecidea melanobola Nyl.

On bark and decaying wood of *Betula* spp., *Picea abies* and *Pinus sylvestris*, and on bark of *Quercus robur*.

S Upl Dlr Mpd

N -

F U EH ES PH PK Kn

Launis et al. 2019a, Kantelinen et al. 2021

Micarea microareolata Launis et al.

On bark of *Alnus glutinosa*, *Betula* sp., *Picea abies*, *Salix pentandra* and *Quercus robur*.

S Ög

N -

F V ES PK

Launis et al. 2019b

Micarea micrococca (Körb.) Gams ex Coppins

Catillaria micrococca (Körb.) Th.Fr.

Micarea prasina f. *micrococca* (Körb.) Hedl.

On decaying bark and wood.

S Bh Vg NrK Srm Vsm Upl

N Øf-No

F St EH

Hedlund 1892, Coppins 2002, Holien & Tønsberg 2006, Czarnota & Guzow-Krzeminska 2009

Micarea misella (Nyl.) Hedl.

Lecidea anomala f. *misella* Nyl.

Lecidea globularis (Nyl.) Lamy

Micarea globularis (Ach.) Hedl.

Lecidea misella (Nyl.) Nyl.

On more or less decaying wood.

S Sk-Nb LuL TL

N Ak Bu Ro ST-No

F V U St EH EP-PK Kn

Hedlund 1892, Vězda et al. 1976, Coppins 1983, Botnen & Tønsberg 1988

Micarea myriocarpa V.Wirth & Vězda ex Coppins

On rocks and stumps of conifers, rarely terricolous, under overhangs, etc.

S Sk Sm Hl Bh Vg Ög Vrm Upl Dlr Hls Ång Jmt
N Øf VA Ro Ho ST NT
F V

Poelt & Vězda 1977, Coppins 1983, Arvidsson et al. 1988, Arup & Ekman 1992, Pykälä 2008

Micarea nigella Coppins

On rotten log of coniferous tree.

S Sm Dlr
N NT
F U EH PK

Coppins 1983, Andersson 1992, Holien 2001, Hermansson 2008a, Myllys & Launis 2018

Micarea nitschkeana (J.Lahm ex Rabenh.) Harm.

Bacidia nitschkeana (J.Lahm ex Rabenh.) Zahlbr.

Bilimbia nitschkeana J.Lahm ex Rabenh.

On bark and lignum of conifers and deciduous trees.

S Sk-Dlr Hls Jmt
N Ro-SF ST NT
F V U St-ES PH KP Kn

Hedlund 1892, Skjolddal 1982, Coppins 1983

Micarea nowakii Czarnota & Coppins

Pioneer on wood.

S Nrk Dlr LuL
N -
F EH

Czarnota 2007, Svensson & Westberg 2010, Myllys & Launis 2018

Micarea osloënsis (Th.Fr.) Hedl.

Lecidea osloënsis Th.Fr.

On old plant debris.

S (TL?)
N (Ak) type locality destroyed
F -

Coppins 1983, Jørgensen & Nordin 2009

Micarea paratropa (Nyl.) Alstrup

Lecidea assimilata f. *aberrans* Th.Fr.

Lecidea paratropa Nyl.

Lecidea subviolascens H.Magn.

Micarea subviolascens (H.Magn.) Coppins

Saxicolous.

S TL
N Ho Tr
F -

Magnusson 1949b, Coppins 1983, Alstrup et al. 1994, Westberg et al. 2007

Micarea peliocarpa (Anzi) Coppins & R.Sant.

Bacidia albidolivens (Nyl.) Zahlbr.

Bilimbia albidolivens (Nyl.) Blomb. & Forssell

Lecidea albidolivens Nyl.

Bacidia arthonizella (Nyl.) Zahlbr.

Lecidea fraterculans Nyl.

Bacidia hemipolioides (Nyl.) Zahlbr.

Bilimbia peliocarpa Anzi

Lecidea sphaeroides var. *leucococca* Nyl.

Bacidia trisepta (Hellb.) Zahlbr.

Bilimbia trisepta (Hellb.) Arnold

Lecidea triseptatula Nyl.

Bacidia violacea (Arnold) Arnold

Bilimbia violacea Arnold

Lecidea violacea P.Crouan & H.Crouan ex Nyl., nom. illeg., non *L. violacea* A.Massal.

Micarea violacea (Arnold) Hedl.

On tree bark, lignum, or decaying bryophytes; sometimes saxicolous.

S Sk-Hls Jmt

N Bu VA-SF MR ST NT

F V U EH EP-PS

Hedlund 1892, Magnusson 1955, Sundell 1963, Sundell 1972, Vězda et al. 1976, Coppins & James 1979b, Coppins 1983, Printzen 1995

Micarea polycarpella (Erichsen) Coppins & Palice

Lecidea polycarpella Erichsen

On stones on the ground.

S Ög Srm Vrm Upl

N -

F -

Palice 1999

Micarea prasina Fr.

Lepraria collemoides Fr., not validly published

Catillaria prasina (Fr.) Th.Fr.

Lecidea prasiniza Nyl.

Catillaria sordidescens (Nyl.) Vain.

Lecidea sordidescens Nyl., uncertain synonym

On bark and lignum of deciduous trees and conifers.

S Sk-LuL

N Øf-No

F V-ES PS PK Kn Ks

Hedlund 1892, Vězda et al. 1976, Coppins 1983, Tønsberg 1992b, Launis et al. 2019a, Guzow-Krzeminska et al. 2019

Micarea pseudomicrococca Launis & Myllys

On bark of *Betula* sp., *Prunus padus* and *Alnus incana*, on wood of *Picea abies*.

S Vg Upl Dlr Hrj

N -

F U EH PK

Launis et al. 2019b, Kantelinen et al. 2021

Micarea pusilla Launis et al.

On decaying wood of e.g. *Picea abies*. Sometimes on bark, especially at the base of branches.

S -

N -

F U

Launis et al. 2019a

Micarea rhabdogena (Norman) Hedl.

Lecidea rhabdogena (Norman) Th.Fr.

On lignum.

S Nrk Srm Dlr Hls Hrj Ång

N Vf Tr

F -

Hedlund 1892, Coppins 1983, Hermansson 2008a

Micarea sambuci van den Boom et al.

On *Populus tremula*.

S Upl

N -

F -

Ekman et al. 2019a

Micarea soralifera Guz.-Krzemín. et al.

On wood.

S Upl

N -

F V

Svensson et al. 2017b, Myllys & Launis 2018

Micarea stipitata Coppins & P.James

Over bryophytes on *Quercus*.

S -

N Ro SF

F -

Tønsberg & Johnsen 2009, Blom et al. 2015, Frisch et al. 2020a

Micarea subconfusa (Nyl.) Alstrup

Lecidea submoestula Nyl.

Micarea submoestula (Nyl.) Coppins

On dust-enriched wood (primarily on stone?).

S Gst

N -

F -

Svensson et al. 2017b

Micarea submilliaria (Nyl.) Coppins

Lecidea granulans Vain.

Micarea granulans (Vain.) Timdal

Micarea subleprosula (Vězda) Vězda

Bacidia submilliaria (Nyl.) Zahlbr.

Lecidea submilliaria Nyl.

Over bryophytes on rocks.

S Bh Vrm Vsm Hls ÅsL LuL

N Ak Ro Ho NT No

F V U PS PK EnL

Coppins 1983, Muhr 1987a, Timdal 1991, Coppins 1994a

Micarea subnigrata (Nyl.) Coppins & H.Kilias

Catillaria subnigrata (Nyl.) Herre

Lecidea subnigrata Nyl.

On exposed siliceous rocks.

S Sk Hl

N Ro Ho

F -

Magnusson 1955, Kilias 1981, Skjolddal 1982, Coppins 1983, Arup & Ekman 1991b

Micarea synotheoides (Nyl.) Coppins

On bark of *Pinus sylvestris* and *Betula pubescens*.

S -

N Ho SF

F -

Coppins 1983, Blom et al. 2015

Micarea ternaria (Nyl.) Vězda

Bacidia suballinita (Nyl.) Zahlbr.

Bacidia ternaria (Nyl.) Lettau

On bryophytes, plant debris, etc.

S Vrm

N Fi

F -

Coppins 1983

Micarea tomentosa Czarnota & Coppins

On decaying stumps of *Picea*.

S Upl Dlr
N Op Bu
F U

Czarnota 2007, Thor & Svensson 2008, Myllys & Launis 2018, Klepsland 2020

Micarea turfosa (A.Massal.) Du Rietz

Lecidea turfosa (A.Massal.) Jatta

Lecidea verrucula (Norman) Th.Fr.

Micarea verrucula (Norman) Hedl.

On more or less dead bryophytes (especially *Sphagnum*).

S Sk-TL
N Øf Ak Ho MR NT No Tr
F V U EH PS-KP

Du Rietz 1923, Coppins 1983, Elvebakk & Bjerke 2006

Micarea viridiatra Coppins

Not in F, N or S. Reports from Norway refer to *Micarea lignaria*.

Coppins 1985

Micarea viridileprosa Coppins & van den Boom

On wood.

S Vg
N Ro
F -

Thor 2009, Tønsberg & Johnsen 2011

Micarea vulpinaris (Nyl.) Muhr

Micarea muhrii Coppins

Lecidea stenholmii H.Magn.

Lecidea vulpinaris Nyl.

On lignum and (rarely) on stone, in streams, etc.

S Sm Bh Vrm Dlr-Hls Jmt Vb
N Ho ST
F PK PeP

Coppins 1983, Muhr 1987a

Micarea xanthonica Coppins & Tønsberg

On deciduous trees and conifers, on dry humus on rock in coastal heath.

S -
N Ro Ho SF NT
F -

Coppins & Tønsberg 2001

+Microcalicium ahlneri Tibell

On decorticated conifer stumps, rarely lignum of Quercus.

S ÖI Sm Vg Srm-Hls Ång Jmt Vb LuL
N Øf-Te SF-No
F V U EH ES PK

Tibell 1978b, Middelborg & Mattsson 1987, Thor & Arvidsson 1999, Tibell 1999a

+Microcalicium arenarium (Hampe ex A.Massal.) Tibell

Coniocybopsis arenaria (A.Massal.) Vain.

Calicium arenarium (A.Massal.) Hampe ex Körb.

Often parasitic on *Psilolechia lucida* or *Stichococcus*, sometimes possibly lichenised. On shaded siliceous rocks and boulders, tree roots, etc.

S Sk Sm Bh Vg Ög Srm Vrm Upl-Hls Ång-Vb ÅsL LuL
N Ak Op-Te Ho SF ST-No
F V U St-ES PH PK Kn PeP KiL

Tibell 1978b, Middelborg & Mattsson 1987, Arup et al. 1997, Tibell 1999a

***Microcalicium disseminatum (Ach.) Vain.**

Calicium atomarium (Ach.) Fr.

Strongylopsis commixta Vain.

Calicium disseminatum (Ach.) Fr.

Microcalicium disseminatum var. *aeruginosum* Räsänen

Microcalicium disseminatum f. *pedicellatum* Vain.

Strongylopsis leucopus Vain.

Strongylopsis leucopus var. *pallidior* Vain.

Strongylopsis stichococci Vain.

Calicium subpedicellatum (Ach.) Schaer.

Microcalicium subpedicellatum (Ach.) Tibell

Calicium viridulum (Ach.) Fr.

On *Chaenotheca* spp. and other calicioid lichens on bark and lignum, sometimes saprophytic on wood.

S Sk-Sm Bh-Hls Ång-LuL
N Øf He-AA Ro MR-No Fi
F A-EH EP-PK Kn PeP-KiL

Tibell 1978b, Hawksworth 1981b, Middelborg & Mattsson 1987, Tibell 1999a

***Milospium graphideorum (Nyl.) D.Hawksw.**

Spilomium graphideorum Nyl.

On *Lecanographa amylicia*, *Arthonia pruinata*, *Dendrographa decolorans*, and *Dirina massiliensis* (thallus).

S ÖI
N -
F -

Hawksworth 1975b, Hawksworth 1979a, Santesson 1986, Johansson et al. 2003

***Milospium lacoizquetae Etayo & Diederich**

On basal squamules of *Cladonia* sp.

S -
N SF
F EnL

Frisch et al. 2020a, Suija & Jüriado 2020

***Minutophoma chrysophthalmae D.Hawksw.**

On *Chrysothrix chrysophthalma*, *C. flavovirens* (thallus).

S Srm
N SF ST NT
F -

Hawksworth 1981b, Santesson 1994a, Frisch et al. 2020a

Miriquidica atrofulva (Sommerf.) A.J.Schwab & Rambold

Lecidea atriuscula H.Magn.

Lecidea atrofulva Sommerf.

On iron-rich rock, rarely on iron-enriched lignum.

S BI-TL
N Ak-Bu Ro-SF No-Fi
F V St ES EP PS PK OP Ks EnL InL

Sommerfelt 1826, Magnusson 1955, Hertel 1975b, Hertel 1981b, Schwab 1986, Rambold & Schwab 1990, Owe-Larsson & Rambold 2001

Miriquidica complanata (Körb.) Hertel & Rambold

Aspicilia complanata (Körb.) Stein

Lecanora complanata Körb.

Lecanora coracodes Nyl.

Lecanora kultalensis Vain.

Aspicilia superiuscula (Nyl.) Hue

Lecidea tenebricans Nyl.

Saxicolous, mainly on seepages.

S Vg-TL
N VA-ST No Tr Fi
F U St EH PH PK PeP InL

Magnusson 1952a, Hertel & Rambold 1987, Owe-Larsson & Rambold 2001, Elvebakk & Bjerke 2006

Miriquidica deusta (Stenh.) Hertel & Rambold

Lecanora deusta (Stenh.) Nyl.

Lecidea deusta (Stenh.) Nyl.

Lecidea deustata Zahlbr.

Lecidea secernens H.Magn.

On siliceous rocks.

S Sk-Ång TL
N Øf Ak SF Fi
F A-U EH EP PH Ks SoL

Magnusson 1923, Hertel & Rambold 1987

Miriquidica garovaglii (Schaer.) Hertel & Rambold

Lecidea aenea (Fr.) Nyl., nom. illeg.

Lecidea garovaglii Schaer.

Miriquidica garovaglioi (Schaer.) Hertel & Rambold, orth. var.

On siliceous rocks.

S Dlr-Jmt LuL TL

N He-Bu Ho-MR ST No Tr

F A V EP EnL

Hertel 1977a, Hertel & Rambold 1987, Rambold & Schwab 1990

Miriquidica griseoatra (Flot.) Hertel & Rambold

Lecidea griseoatra (Flot.) Schaer.

Lecidea leucophaea var. *griseoatra* (Flot.) Th.Fr.

Miriquidica obnubila auct. non (Th.Fr. & Hellb.) Hertel & Rambold

Saxicolous.

S Hrtj-TL

N Ak Bu Ho MR-Tr

F V EH EP PeP EnL InL

Magnusson 1952a, Hertel & Rambold 1987

Miriquidica instrata (Nyl.) Hertel & Rambold

Lecidea instrata Nyl.

Lecidea subobscura H.Magn.

Saxicolous.

S -

N Ho SF No

F -

Magnusson 1925a, Magnusson 1946, Magnusson 1949b, Hertel & Rambold 1987

Miriquidica intrudens (H.Magn.) Hertel & Rambold

Lecanora intrudens H.Magn.

Parasitic on *Rhizocarpon geographicum*, etc., on sun-exposed rocks.

S Bh Dls Vg Ög Vrm Upl Gst LyL

N Ak Op Bu Te AA Tr

F -

Magnusson 1942b, Hertel & Rambold 1987, Owe-Larsson & Rambold 2001, Elvebakk & Bjerke 2006

Miriquidica lapponica A.J.Schwab & Rambold

Saxicolous.

S TL (Kärkevægge 1980 Hertel)

N -

F -

Rambold & Schwab 1990

Miriquidica leucophaea (Flörke ex Rabenh.) Hertel & Rambold

Lecidea distensa Vain.

Lecidea hardangeriana H.Magn.

Lecidea invenusta H.Magn.

Biatora leucophaea Flörke ex Rambold

Lecidea leucophaea (Flörke ex Rabenh.) Nyl.

On siliceous rocks.

S Sk-TL

N Bu Ho SF ST No-Fi

F St PK Kn PeP KiL-InL

Fries 1874, Vainio 1934, Hertel & Rambold 1987, Svensson & Owe-Larsson 2019

Miriquidica leucophaeoides (Nyl.) Hertel & M.P.Andreev

Lecidea leucophaeoides Nyl.

On siliceous rock.

S LyL LuL TL

N -

F Ks

Vainio 1934, Magnusson 1946, Andreev 2004

Miriquidica lulensis (Hellb.) Hertel & Rambold

Lecidea circumnigrata var. *reagens* H.Magn.

Lecidea demonum H.Magn.

Lecidea lulensis Hellb.

Lecidea recessa H.Magn

Saxicolous.

S Nrk-TL

N Op? Ho MR ST? NT Tr Fi

F EnL?

Hertel & Ullrich 1976, Hertel & Rambold 1987, Hertel 1991

Miriquidica majae Tønsberg

On *Picea abies*.

S -

N No NT

F -

Tønsberg & Andersen 2019

Miriquidica nigroleprosa (Vain.) Hertel & Rambold

Du Rietz 1921, Magnusson 1927, Magnusson 1946, Timdal 1987a, Hertel & Rambold 1987, Owe-Larsson & Rambold 2001

Miriquidica nigroleprosa (Vain.) Hertel & Rambold var. liljenstroemii (Du Rietz) Owe-Larss. & Rambold

Lecidea liljenstroemii Du Rietz

On sun-exposed siliceous rocks.

S Sm-TL

N Te-No

F V PeP SoL

Du Rietz 1921, Owe-Larsson & Rambold 2001

Miriquidica nigroleprosa (Vain.) Hertel & Rambold var. nigroleprosa

Lecidea nigroleprosa (Vain.) H.Magn.

Saxicolous, on crystalline schist, etc.

S Srm Hls Hrj-TL

N Ak-Bu Te Ho NT-Fi

F V PeP SoL

Magnusson 1927, Magnusson 1946, Timdal 1987a, Timdal 1987a, Hertel & Rambold 1987, Owe-Larsson & Rambold 2001

Miriquidica obnubila (Th.Fr. & Hellb.) Hertel & Rambold

Lecidea obnubila Th.Fr. & Hellb.

Lecidea tumidior (Nyl.) Vain.

On siliceous rock, facultatively parasitic on other lichens.

S Ång Hrj-TL

N ST Tr Fi

F EH EnL InL

Magnusson 1946, Magnusson 1952a, Hertel & Rambold 1987, Elvebakk & Bjerke 2006

Miriquidica paanaënsis (Räsänen & Laurila) Andreev

Lecidea aglaeiformis H.Magn.

Lecidea paanaënsis Räsänen & Laurila

On rock in damp sites.

S Vrm Hrj Jmt LyL LuL TL

N SF

F -

Magnusson 1946, Magnusson 1957, Haugan & Timdal 1994, Andreev 2004

Miriquidica plumbeoatra (Vain.) A.J.Schwab & Rambold

Lecidea fuscoferruginea Vain.

Lecidea griseonigricans Vain.

Lecidea mosigii auct. scand. p.m.p., Scand. reports mainly refer to *Miriquidica plumbeoatra*.

Orphniospora mosigii auct. scand., non (Körb.) Hertel & Rambold

Lecidea plumbeoatra Vain.

Lecidea satakuntensis Vain.

On rocks by streams, on shores, etc.

S Sk Bh Vrm Hls Ång Jmt-TL

N Tr

F V St PK PeP EnL

Vainio 1934, Magnusson 1946, Magnusson 1952a, Magnusson 1955, Hertel 1981a, Rambold & Schwab 1990, Svensson & Owe-Larsson 2019

Miriquidica praeruptorum (H.Magn.)

Aspicilia praeruptorum (H.Magn.) R.Sant.

Lecanora praeruptorum H.Magn., "praeruptarum"

On siliceous rocks, on overhangs and vertical surfaces.

S Bh Vg

N VA Ro

F -

Foucard 2001, Magnusson 1930b

Miriquidica pulvinatula (Arnold) Hertel & Rambold

Lecidea circumnunita H.Magn., lapsus

Lecidea circumnigrata var. *circumnigrata*

Lecidea pulvinatula (Arnold) Dalla Torre & Sarnth.

On crystalline rock.

S Htj PL TL

N Op ST

F EnL

Degelius 1945b, Magnusson 1948b, Magnusson 1952b, Hertel 1970b, Hertel 1971a, Hertel & Rambold 1987

Miriquidica pycnocarpa (Körb.) M.P.Andreev

Biatorina microbotrys Th.Fr. & Hellb.

Lecidea pycnocarpa (Körb.) Ohlert

On siliceous rocks.

S Sk-LuL

N Ho Tr Fi

F Kn

Hellbom 1871a, Fries 1874, Vainio 1934, Andreev 2004

Miriquidica subplumbea (Anzi) Cl.Roux

Miriquidica griseoatra auct. non (Flot.) Hertel & Rambold

Miriquidica leucophaea var. *griseoatra* (Flot.) Wirth

Lecidea subplumbea Anzi

On exposed siliceous rocks in cold environments.

S Jmt Htj LyL TL

N Ho

F PeP

Hafellner et al. 2014

Miriquidica ventosa (Vain.) Timdal

Lecidea ventosa Vain.

On siliceous rock.

S -

N -

F EH ES

Vainio 1934, Timdal 1993

***Monodictys anaptychia (Lindau) D.Hawksw.**

Coniothecium anaptychia Lindau

On *Anaptychia ciliaris* (thallus).

S Ög Upl

N -

F -

Hawksworth 1975b, Hawksworth 1979a, Wedin 1993, Thell et al. 2014

(*Monodictys cellulosa S.Hughes

On *Arthonia vinosa*, *Chrysothrix candelaris* (thallus).

S Sk Sm Vg Upl

N Ak

F -

Usually a saprophyte but often occurring on lichens.

Ellis 1976, Hawksworth 1979a, Laundon 1992a, Santesson 1994b

***Monodictys epilepraria Kukwa & Diederich**

On *Lepraria* sp.

S Sk Ög

N -

F -

Kukwa & Diederich 2005

Montanelia disjuncta (Erichsen) Divakar et al.

Melanelia disjuncta (Erichsen) Essl.

Parmelia disjuncta Erichsen

Melanelia granulosa (Lyngé) Essl.

Parmelia granulosa Lyngé

Parmelia sorediata var. *coralloidea* Lyngé

On siliceous rock.

S Bl Öl Sm Hl Bh Vg-Nb LyL-LuL

N Øf-Fi

F A-InL

Esslinger 1977, Esslinger 1978, Westberg & Thell 2011b

Montanelia panniformis (Nyl.) Divakar et al.

Parmelia pannariiformis (Arnold) Vain.

Melanelia panniformis (Nyl.) Essl.

Parmelia panniformis (Nyl.) Vain.

On siliceous rock.

S Bl Gtl-LyL LuL TL

N Øf-Fi

F A-InL

Esslinger 1977, Esslinger 1978, Westberg & Thell 2011b

Montanelia sorediata (Ach.) Divakar et al.

Melanelia sorediata (Ach.) Goward & Ahti

Parmelia sorediata (Ach.) Th.Fr.

Melanelia sorediosa (Almb.) Essl.

Parmelia sorediosa Almb.

On siliceous rock.

S Bl Gtl-Bh Vg-LyL LuL TL

N Øf-Fi

F A-Ks SoL-InL

Esslinger 1977, Esslinger 1978, Ahti et al. 1987, Westberg & Thell 2011b

Montanelia tominii (Oxner) Divakar et al.

Parmelia saximontana R.A.Anderson & W.A. Weber

Melanelia substygia (Räsänen) Essl.

Parmelia substygia Räsänen

Melanelia tominii (Oxner) Essl.

Parmelia tominii Oxner

On siliceous rock.

S TL

N Op ST Tr

F -

Krog 1966, Krog 1967, Esslinger 1977, Esslinger 1978, Tonsberg et al. 1996, Westberg & Thell 2011b

***Muellerella erratica (Müll.Arg.) Hafellner & V.John**

Microthelia ecatonospora Anzi

Tichothecium erraticum A.Massal.

Tichothecium microcarpum Arnold

Muellerella pygmaea var. *athallina* (Müll.Arg.) Triebel

Tichothecium subsordescens (Nyl.) Vain.

On the thallus of a wide range of crustose lichens.

S Öl Gtl Vg Ög Hrg Jmt TL

N Op Ho Tr Fi

F Kn

Santesson 1986, Triebel 1989, Hafellner & John 2006

***Muellerella hospitans Stizenb.**

Muellerella polyspora var. *hospitans* (Stizenb.) Keissl.

On *Bacidia fraxinea*, *B. rubella*, *Lecania fuscella* (apothecia).

S Sk-UpI

N ST Fi

F A V

Santesson 1949, Hawksworth 1975a, Santesson 1984b, Santesson 1986, Puolasmaa et al. 2008, Puolasmaa et al. 2008, Syrjänen et al. 2010, Frisch et al. 2020a

* **Muellerella lichenicola (Sommerf.:Fr.) D.Hawksw.**

Tichothecium lichenicola (Sommerf.:Fr.) R.Sant.

On the thallus of a wide range of crustose lichens.

S ÖI Gtl Ög Upl Hls Hrj Jmt ÅsL LyL TL

N Op Fi

F A V EH-EP Ks

Santesson 1960, Hawksworth 1979a, Santesson 1984b, Triebel 1989, Fröberg 1989, Alstrup & Ahti 2007, Puolasmaa et al. 2008

* **Muellerella polyspora Hepp ex Müll.Arg.**

Muellerella haplotella (Nyl.) Arnold

Endococcus heterosporus Norman, nom. nud.

On *Arthonia radiata*, *A. atra* (thallus).

S Sk LyL

N No

F U

Hawksworth 1982a, Hawksworth 1983a, Triebel 1989

* **Muellerella pygmaea (Körb.) D.Hawksw.**

Tichothecium pygmaeum Körb.

Endococcus pygmaeus (Körb.) Th.Fr.

On *Bellemeria cinereorufescens*, *Lecidea lapicida*, *L. leucohallina*, *L. plana*, *L. praenubila*, *L. tessellata* (thallus).

S ÖI HI Ög Vsm Upl Hrj Jmt LyL TL

N Ak AA ST-Fi

F V U PK InL EnL

Santesson 1986, Santesson 1988, Triebel 1989, Santesson 1994a, Berglund & Andersson 2008, Suija & Jüriado 2020

* **Muellerella ventosicola (Mudd) D.Hawksw.**

Muellerella pygmaea var. *ventosicola* (Mudd) Triebel

Microthelia ventosicola Mudd.

On *Rhizocarpon alpicola*, *R. geographicum*, *R. reductum*, *Protoparmelia badia*, *Ophioparma ventosa* (thallus).

S Srm Hls Hrj Jmt ÅsL-TL

N Ho Tr

F EnL

Triebel 1989, Hawksworth 2003, Alstrup et al. 2008, Suija & Jüriado 2020

+ **Multiclavula afflata (Lagger) R.H.Petersen**

By mistake (?) reported as lichenized and from Sweden.

Multiclavula corynoides (Peck) R.H.Petersen

Clavulinopsis septentrionalis Corner

Terricolous, on roadsides, etc.

S Vrm Dlr-TL

N Ro Op ST-Fi

F V-EK EH PS KP-SoL InL

Corner 1956, Poelt 1959, Peterson 1967, Høiland 1987

Multiclavula mucida (Pers.) R.H.Petersen

Clavaria mucida Pers.

Lentaria mucida (Pers.) Corner

On rotting logs of *Populus tremula* and *Fagus sylvatica*.

S Sk Ög Srm Vrm Upl Dlr Jmt

N MR ST No

F A-U St EH PH Ks InL

Peterson 1967, Høiland 1987, Larsson 1997

Multiclavula vernalis (Schwein.) R.H.Petersen

Clavaria vernalis Schwein.

Clavulinopsis vernalis (Schwein.) Corner

Terricolous, on roadcuts, etc.

S Sm-Hls

N He Op Ro SF NT No Fi

F U EP PS PK-Ks EnL InL

Peterson 1967, Høiland 1987, Poelt & Obermayer 1990b

Mycobilimbia carnealbida (Müll.Arg.) S.Ekman & Printzen

Bacidia carnealbida (Müll.Arg.) Coppins

Biatora carnealbida (Müll.Arg.) Coppins

Bacidia carneopallida (Müll.Arg.) Coppins

Bacidia sphaeroides auct., non (Dicks.) Zahlbr.

Biatora sphaeroides auct.

Bilimbia sphaeroides auct.

Mycobilimbia sphaeroides D.D.Awasthi

On bark or bryophytes on tree bases, often *Populus*, sometimes on wood or on the ground.

S Sk-TL

N Øf-Te ST-Fi

F V-InL

Gilbert et al. 1988, Coppins 1989c, Coppins et al. 1992

Mycobilimbia epixanthoides (Nyl.) Vitik. et al.

Bacidia epixanthoides (Nyl.) Lettau

Biatora epixanthoides (Nyl.) Diederich

Bilimbia epixanthoides (Nyl.) Kullh.

Lecidea epixanthoides Nyl.

On bryophytes or directly on bark of deciduous trees, rarely lignicolous.

S Sm-Ång Jmt LuL

N Øf-He Bu Ro SF ST NT Tr Fi

F U-ES PH PK-SoL

Tønsberg 1992b, Hafellner & Türk 2001

Mycobilimbia pilularis (Körb.) Hafellner & Türk

Biatora pilularis (Körb.) Hepp

Catillaria rhodosphaera Th.Fr. & Hulting ex Th.Fr., non *Mycobilimbia sphaeroides* D.D.Awasthi

Biatora sphaeroides (Dicks.) Körb.

Biatora sphaeroides (Dicks.) Zahlbr.

Biatorina sphaeroides A.Massal.

Catillaria sphaeroides ("A.Massal.") Schuler

Mycobilimbia sphaeroides (Dicks.) V.Wirth, nom. illeg.

On bases of deciduous trees, either directly on bark or on bryophytes, rarely on shaded rock.

S Sk-Vrm Upl Dlr Hls Ång

N Ro Ho Op ST

F V

Jørgensen & Øvstedal 1975, Kiliyas 1981, Coppins 1983, Arup et al. 1997, Thor & Arvidsson 1999, Hafellner & Türk 2001, Pykälä 2010a

Mycobilimbia tetramera (De Not.) Vitik. et al. ex Hafellner & Türk

Bacidia atrolivida (Vain.) Zahlbr.

Bilimbia atrolivida (Vain.) Vain.

Lecidea atrolivida Vain.

Bacidia fusca (A.Massal.) Du Rietz

Mycobilimbia fusca (A.Massal.) Hafellner & V.Wirth

Bacidia obscurata (Sommerf.) Zahlbr.

Bilimbia obscurata (Sommerf.) Th.Fr.

Mycobilimbia obscurata (Sommerf.) Rehm

Bacidia tetramera (De Not.) Coppins

Biatora tetramera (De Not.) Coppins

On bryophytes (mainly on calcareous substrates), rarely on tree bark.

S Sk-TL

N Øf-AA Ro-Fi

F V-PK Kn-KiL EnL InL

Vainio 1922, Gilbert et al. 1988, Clauzade et al. 1989, Timdal 1991, Hafellner & Türk 2001, Svensson et al. 2017b

Mycoblastus affinis (Schaer.) T.Schauer

Mycoblastus melinus (Kremppl. ex Nyl.) Hellb.

On acidic tree bark, sometimes on lignum or on rock.

S Vg-TL

N Ak-Bu Te Ro-Fi

F U St EH PH PS KP Kn PeP-KiL InL

Fries 1874, Schauer 1964

Mycoblastus alpinus (Fr.) Th.Fr. ex Hellb.

Pertusaria efflorescens Vain.

Mycoblastus sanguinarius var. *alpinus* (Fr.) Stein

On acidic tree bark and dry lignum, sometimes on peat or bryophytes, rarely on rock.

S Dls Vrm Vsm Dlr Hvj LuL TL

N Ak-Bu Te AA Ho SF ST-Fi

F V St-ES Kn PeP Ks InL

Fries 1874, Hellbom 1884, James 1971, Tønberg 1992b

Mycoblastus caesius (Coppins & P.James) Tønsberg

Haematomma caesium Coppins & P.James

Often on *Betula*, *Sorbus*, *Alnus* or *Pinus*, sometimes on other deciduous trees, shrubs, and shrublets.

S -

N Ro-SF ST-No

F -

Coppins & James 1978, Poelt & Vězda 1981, Tønsberg 1992b, Jørgensen 1996

Mycoblastus sanguinarioides Kantvilas

On spruce, *Betula* in humid forests.

S LuL

N -

F PK

Svensson et al. 2017b

Mycoblastus sanguinarius (L.) Norman

Mycoblastus sanguinarius var. *endorhodus* (Th.Fr.) Stein

On acidic tree bark, sometimes on lignum, rarely on bryophytes or on rock.

S Sk-TL

N Øf-Fi

F A-InL

Fries 1874, Schauer 1964, Tønsberg 1992b

+*Mycocalicium plumbeatum* (Norman) H.Magn.

Unknown application.

+***Mycocalicium subtile* (Pers.) Szatala**

Calicium minutellum Ach.

Mycocalicium minutellum (Ach.) Nádv.

Calicium pallescens Nyl.

Mycocalicium pallescens (Nyl.) Vain.

Calicium parietinum Ach.

Mycocalicium parietinum (Ach.) D.Hawksw.

Calicium subtile Pers.

On hard, recently decorticated lignum of trees.

S Sk-TL

N Øf-Ho ST-Fi

F A-InL

Tibell 1987b, Tibell 1999a, Vinuesa et al. 2001

***Mycomicrothelia confusa* D.Hawksw.**

On smooth bark of *Sorbus*.

S -

N Fi (Seiland, Norman)

F PS

"Facultatively lichenized with *Trentepohlia*."

Hawksworth 1985b

+Mycoporum antecellens (Nyl.) R.C.Harris

Arthopyrenia antecellens (Nyl.) Arnold

On deciduous trees, mainly *Corylus*.

S HI

N Ro-SF

F KiL

Øvstedal 1979, Foucard 1992, Harris 1995, Blom et al. 2015, Fritz 2016b

Myochroidea leprosula (Arnold) Printzen et al.

On stems and twigs of shrubs in subalpine areas.

S -

N Te

F -

Tønsberg & Johnsen 2009

Myochroidea porphyrospoda (Anzi) Printzen et al.

Biatora amaurospoda Anzi, lapsus in Nylander (1881a)

Lecidea porphyrospoda (Anzi) Th.Fr.

On bark of *Betula* and *Juniperus*, rarely *Picea*, often near the base.

S Vrm Dlr Hrj Jmt TL

N Op Bu Te AA Ho SF ST-Fi

F KiL

Tønsberg 1992b, Printzen et al. 2008

Myochroidea rufofusca (Anzi) Printzen et al.

Biatora porphyroplaca Hinteregger & Poelt

Lecidea rufofusca (Anzi) Nyl.

On bryophytes and plant debris on the ground.

S Hrj Jmt LuL TL

N Ak Op Ho NT-Fi

F InL

Fries 1874, Vainio 1934, Printzen et al. 2008

Myriolecis albescens (Hoffm.) Śliwa et al.

Lecanora albescens (Hoffm.) Branth & Rostr.

Psora albescens Hoffm.

Lecanora galactina Ach.

Lecanora sommerfeltiana Flörke ex Sommerf.

On rocks, mortar, lignum, etc., mainly in dust-enriched sites.

S Sk-TL

N Ak-Bu Te Ho-ST No-Fi

F A-EK EH ES PS

Ahti 1962a, Frøberg 1988, Poelt et al. 1995, Frøberg 1997, Laundon 2010, Zhao et al. 2016

Myriolecis andrewii (B.de Lesd.) Šliwa et al.

Lecanora andrewii B.de Lesd.

On seashore rocks, more or less manured by birds.

S Sk Bh

N No Tr

F -

Degelius 1982, Arup & Ekman 1991b, Elvebakk & Bjerke 2006, Zhao et al. 2016

Myriolecis antiqua (J.R.Laundon) Šliwa et al.

Lecanora antiqua J.R.Laundon

On calcareous rocks.

S -

N AA No

F -

Klepsland 2020

Myriolecis contractula (Nyl.) Šliwa et al.

Lecanora contractula Nyl.

Lecanora thulensis Th.Fr., excl. var. *feracissima* (Th.Fr.) Th.Fr.

On seashore rocks frequently visited by birds.

S -

N SF No-Fi

F -

Records from the Baltic shores are incorrect.

Fries 1871, Santesson 1969a, Poelt 1983a, Elix & Crook 1992, Zhao et al. 2016

Myriolecis crenulata (Hook.) Šliwa et al.

Lecanora caesioalba (Flörke) Körb.

Lecanora crenulata Hook.

Ionaspis haeyrenii Räsänen

Saxicolous.

S Sk-LyL

N Ak Ho SF ST No

F A-U EH-PS KP Ks EnL

Fries 1871, Laundon 1984a, Fröberg 1988, Poelt et al. 1995, Fröberg 1997, Diederich & Sérusiaux 2000, Zhao et al. 2016

Myriolecis dispersa (Pers.) Šliwa et al.

Lecanora atrynella Nyl.

Lecanora dispersa (Pers.) Sommerf.

Lecanora dispersa var. *atrynella* (Nyl.) Vain.

Lichen dispersus Pers.

On mortar, calcareous rocks, schist, etc.

S Sk-TL

N Ak Op Vf Te Ro Ho ST No-Fi

F A-Ks SoL InL

Fries 1871, Fröberg 1988, Fröberg 1989, Fröberg 1997, Zhao et al. 2016

Myriolecis fugiens (Nyl.) Śliwa et al.

Lecanora fugiens Nyl.

On siliceous rock by the sea.

S Sk Vg

N Ro Ho

F EH PH

Øvstedal 1979, Skjolddal 1982, Scholz 1994, Zhao et al. 2016

Myriolecis hagenii (Ach.) Śliwa et al.

Lecanora hagenii (Ach.) Ach.

Parmelia hagenii Ach., (1803) non *Lichen hagenii* Ach. 1799 ("1798")

On deciduous trees and shrubs, also lignicolous and saxicolous.

S Sk-TL

N Ak Op Te-VA Ho SF ST-Fi

F A-PS KP PeP InL

Fries 1871, Degelius 1986, Zhao et al. 2016

Myriolecis invadens (H.Magn.) Śliwa et al.

Lecanora dispersa f. *coniotropa*

Lecanora invadens H.Magn.

On calcareous rocks.

S Öl TL

N -

F -

Śliwa 2007b, Zhao et al. 2016

Myriolecis perpruinosa (Fröberg) Śliwa et al.

Lecanora perpruinosa Fröberg

On calcareous rocks.

S Sk Öl Gtl Upl TL

N SF Tr

F V

Fröberg 1989, Poelt et al. 1995, Fröberg 1997, Elvebakk & Bjerke 2006, Zhao et al. 2016

Myriolecis persimilis (Th.Fr.) Śliwa et al.

Lecanora hagenii subsp. *persimilis* Th.Fr.

Lecanora persimilis (Th.Fr.) Mig., non "(Th.Fr.) Arnold, nec "(Th.Fr.) Nyl. (Art. 36.1a, c)

On bark of deciduous trees.

S Sm Bh Vg Nrk Srm Upl Hls Mpd

N Ak Tr

F -

Perhaps conspecific with *Lecanora sambuci*.

Fries 1871, Migula 1929, Degelius 1964, Zhao et al. 2016

Myriolecis salina (H.Magn.) Šliwa et al.

Lecanora salina H.Magn.

On seashore rocks.

S Bh-Sk-Vb NrK (Lake Hjälmaren)

N VA-Ho ST Tr Fi

F U

Magnusson 1926a, Degelius 1939a, Zhao et al. 2016

Myriolecis sambuci (Pers.) Clem.

Lecanora sambuci (Pers.) Nyl.

Lichen sambuci Pers.

On somewhat nutrient-rich bark of deciduous trees and shrubs.

S Sk-Hls

N Ak Ho

F V U St-ES PH PS KP OP

Fries 1871, Guderley & Lumbsch 1999, Zhao et al. 2016

Myriolecis semipallida (H.Magn.) Šliwa et al.

Lecanora flotoviana auct., non Spreng.

Lecanora semipallida H.Magn

Lecanora xanthostoma Wedd ex Cl.Roux

Lecanora xanthostoma Cl.Roux ex Fröberg, nom. illeg.

On calcareous rock, concrete etc., occasionally on other substrates.

S Sk ÖI Gtl HI Vg Vsm Upl TL

N SF Tr

F V EK InL

Poelt et al. 1995, Fröberg 1997, Elvebakk & Bjerke 2006, Šliwa 2007a, Šliwa 2007b, Pykälä 2007, Zhao et al. 2016

Myriolecis straminea (Ach.) Šliwa et al.

Lecanora straminea Ach.

On siliceous seashore rocks; ornithocoprophilous.

S -

N No-Fi

F -

Fries 1871, Lynge 1921a, Lynge 1921b, Santesson 1969b, Zhao et al. 2016

Myriolecis torrida (Vain.) Šliwa et al.

Lecanora torrida Vain.

On a calcareous, probably overhanging rock.

S TL

N No locality provided (Šliwa 2007b, p. 56)

F EnL

Magnusson 1952a, Pykälä 2010c, Zhao et al. 2016

Myriolecis zosteræ (Ach.) Śliwa et al.

Lecanora beringii Nyl., "beringii"

Lecanora subfusca var. *zosteræ* Ach.

Lecanora zosteræ (Ach.) Nyl.

Magnusson 1952a, Brodo & Vitikainen 1984, Śliwa 2007b, Zhao et al. 2016, Śliwa 2017

Myriolecis zosteræ (Ach.) Śliwa et al. var. palanderi (Vain.) Śliwa

Lecanora hagenii f. *saxifragæ* Anzi

Lecanora hagenii var. *fallax* Hepp

Lecanora zosteræ var. *palanderi* (Vain.) Śliwa

On plant debris and bryophytes.

S Jmt TL

N -

F -

Magnusson 1952a, Brodo & Vitikainen 1984, Śliwa 2007b

Myriolecis zosteræ (Ach.) Śliwa et al. var. zosteræ

Lecanora subfusca (var.) *zosteræ* Ach.

On *Zostera*.

S "Suecia"

N -

F -

Acharius 1814

Myriospora dilatata (M.Westb. & Wedin) K.Knudsen & L.Arcadia

Silobia dilatata M.Westb. & Wedin

On schistose, iron-rich siliceous rock or on calcareous rock.

S Upl Hrj Jmt Vb LyL PL LuL TL

N No Tr Fi

F V EH EP

Westberg et al. 2011b, Westberg & Svensson 2012, Arcadia & Knudsen 2012

Myriospora myochroa (M.Westb.) K.Knudsen & L.Arcadia

Silobia myochroa M.Westb.

On acidic rocks, usually near the coast.

S Bl Gtl Hl Bh Vg Jmt Vb TL

N VA No

F InL

Westberg et al. 2011b, Arcadia & Knudsen 2012, Hemberg 2014, Hemberg 2014

Myriospora rhagadiza (Nyl.) K.Knudsen & L.Arcadia

Acarospora amphibola auct.

Silobia rhagadiza (Nyl.) M.Westb.

Acarospora scyphulifera Vain.

Acarospora smaragdula var. *scyphulifera* (Vain.) Clauzade & Cl.Roux

On siliceous seashore rocks.

S ÖI Hl Bh Vg Srm Mpd

N VA-Ho MR No Tr

F St EH PeP InL(?)

Magnusson 1929a, Magnusson 1935c, Westberg et al. 2011b, Arcadia & Knudsen 2012

Myriospora rufescens (Ach.) Hepp ex Uloth

Acarospora fusca auct. Succ.

Acarospora rufescens (Ach.) Krempelh.

Silobia rufescens (Ach.) M.Westb. & Wedin

On sandstone.

S Vg Hrj

N -

F -

Magnusson 1929a, Magnusson 1935c, Degelius 1961, Westberg et al. 2011b, Arcadia & Knudsen 2012

Myriospora scabrida (Hedl. ex H.Magn.) K.Knudsen & L. Arcadia

Acarospora scabrida Hedl. ex H.Magn.

Silobia scabrida (H.Magn.) M.Westb.

Acarospora verruciformis H.Magn.

On vertical, soft rock surfaces; somewhat nitrophilous.

S Dlr Hrj Jmt ÅsL LyL LuL TL

N Op Ro Ho MR ST Tr Fi

F V U PK InL

Magnusson 1929a, Magnusson 1935c, Westberg et al. 2011b, Arcadia & Knudsen 2012

Myriospora smaragdula (Wahlenb. ex Ach.) Nägeli ex Uloth

Acarospora amphibola Wedd.

Acarospora isotorquensis Alstrup

Acarospora lesdainii Harm. ex A.L.Sm.

Acarospora murina Sandst.

Acarospora smaragdula (Wahlenb.) A.Massal.

Acarospora smaragdula var. *lesdainii* (Harm. ex A.L.Sm.) H.Magn.

Polysporinopsis smaragdula (Wahlenb.) Vězda

Silobia smaragdula (Wahlenb.) M.Westb. & Wedin

On acidic and copper-rich rocks (avoids iron-rich rocks).

S Hl Bh Vg Ög Vrm Gst Hls Mpd Hrj Jmt LyL TL

N Ak Op Bu AA Ro-MR NT-Fi

F V U St EH EP PK PeP Ks SoL EnL

Magnusson 1929a, Magnusson 1935c, Alstrup 1981, Alstrup 1984, Purvis et al. 1985, Westberg et al. 2011b, Arcadia & Knudsen 2012

Myriospora tangerina (M.Westb. & Wedin) K.Knudsen & L.Arcadia

Acarospora lesdainii var. *subochracea* H.Magn.

Silobia tangerina M.Westb. & Wedin

On iron-rich rock.

S Vg Ög Hrg Jmt LyL TL

N Op SF Tr

F EH

Westberg et al. 2011b, Westberg & Svensson 2012, Arcadia & Knudsen 2012

***Myxophora leptogiophila (Minks ex G.Winter) Nik.Hoffmann & Hafellner**

Leptorhaphis leptogiophila Minks ex G.Winter

Leptosphaeria leptogiophila (Minks ex G.Winter) G.Winter

Metasphaeria leptogiophila (Minks ex G.Winter) Berl. & Vogl.

Physalospora leptogiophila (Minks ex G.Winter) Vouaux

On *Collema crispum*, *C. subflaccidum* (thallus).

S -

N Ho No

F -

Report from S (LyL) is incorrect.

Hoffmann & Hafellner 2000

Naetrocymbe fraxini (A.Massal.) R.C.Harris

Arthopyrenia fraxini A.Massal.

Arthopyrenia megalospora Lönnr.

On smooth bark of deciduous trees.

S Sk-Jmt

N Ho NT Tr

F V

Degelius 1939a, Coppins 1988a, Foucard 1992, Holien & Tønsberg 1994, Harris 1995

Naetrocymbe punctiformis (Pers.) R.C.Harris

Arthopyrenia analepta auct.

Arthopyrenia atomaria sensu Müll.Arg.

Arthopyrenia cembrina (Anzi) Grummann ex D.Hawksw.

Verrucaria epidermidis var. *pyrenastrella* Nyl.

Arthopyrenia globularis Korb.

Arthopyrenia padi Rabenh.

Arthopyrenia personii A.Massal.

Arthopyrenia punctiformis (Pers.) A.Massal.

Didymella punctiformis (Schränk) Vain.

Arthopyrenia pyrenastrella (Nyl.) Arnold, sic Norman ut ssp.

Didymella pyrenastrella (Nyl.) Vain.

Arthopyrenia submicans auct., non (Nyl.) Arnold

On smooth bark, often twigs and branches, of deciduous trees and shrubs.

S Sk-TL

N He Op Vf AA Ro-ST No-Fi

F A-InL

von Keissler 1936, Degelius 1978, Foucard 1992, Harris 1995

Naetrocymbe rhypona (Ach.) R.C.Harris

Arthopyrenia fumago (Wallr.) Mudd

Arthopyrenia grisea sensu Vain.

Arthopyrenia olivatra Norman, uncertain synonym

Leptorhaphis olivatra (Norman) H.Magn., uncertain synonym

Arthopyrenia rhypona (Ach.) A.Massal.

Metasphaeria rhypona (Ach.) Vain.

On smooth bark, often twigs and branches, of deciduous trees and shrubs.

S Dls NrK-Vrm UpL Gst Hls Hrj Jmt Vb LuL TL

N Ak Bu-Te Ro Ho MR No-Fi

F A U EH-PH Kn PeP EnL

von Keissler 1936, Foucard 1992, Harris 1995

Naetrocymbe saxicola (A.Massal.) R.C.Harris

Arthopyrenia saxicola A.Massal.

Leiophloea saxicola (A.Massal.) H.Riedl

Pyrenocollema saxicola (A.Massal.) Coppins

On calcareous rocks.

S Gtl

N locality not reported

F -

von Keissler 1936, Harris 1995

Naevia punctiformis (Ach.) A.Massal.

Arthonia populina A.Massal.

Arthonia punctiformis Ach.

On smooth bark of deciduous trees, also on wood.

S Sk-Ång Jmt

N Ak Bu Vf Ro-Fi

F A-U St-ES PH-PK Kn OP

Almquist 1880, Sundin & Tehler 1998, Sundin 1999

***Nanostictis peltigerae M.S.Christ.**

On many different species of *Peltigera* (lower side of thallus and rhizines).

S Vg Upl Jmt ÅsL

N He

F V-Kn PeP Ks EnL InL

Christiansen 1954, Santesson 1986, Santesson 1994a, Puolasmaa et al. 2012, Puolasmaa et al. 2012

***Nectriopsis lecanodes (Ces.) Diederich & Schroers**

Nectria lecanodes Ces.

On *Lobaria scrobiculata*, *Nephroma bellum*, *N. resupinatum*, *Peltigera* spp.

S Sk Vg Srm Upl Hls

N Op Ro SF MR No Tr

F A V U EH St EH ES

Booth 1959, Santesson 1984b, Santesson 1986, Sérusiaux et al. 1999, Alstrup et al. 2008, Puolasmaa et al. 2012

***Neobarya peltigerae Lowen et al.**

On the thallus of *Peltigera* spp.

S -

N -

F U EH

Stenroos et al. 2016

***Neocoleroa inundata (Vain.) Diederich**

Arthonia exilis var. *tenellula* f. *inundata* Vain.

On *Bacidina inundata*.

S -

N -

F Kn

Vainio 1883, Sérusiaux et al. 1999

***Neolamyia peltigerae (Mont.) Theiss. & Syd.**

On *Peltigera didactyla*, *Peltigera* sp. (thallus).

S TL

N Op

F -

Santesson 1949, Cannon et al. 1985

Nephroma arcticum (L.) Torss.

Opisteria arctica (L.) Vain.

Nephroma polare (Ach.) Ach.

Among bryophytes on the ground or on rock, rare in the south.

S Sm-TL (rare in the southern prov.)

N Øf-Fi

F A-InL

Wetmore 1960, Tønsgberg & Holtan-Hartwig 1983, James & White 1987, Vitikainen 2007a, Ahti et al. 2012

Nephroma bellum (Spreng.) Tuck.

Nephroma laevigatum auct.

Nephromium subto mentellum (Nyl.) Gyeln.

On deciduous trees, often Salix, Sorbus or Populus, sometimes on rock or on lignum.

S Sm-TL (esp. in N. Scand.)

N Øf-Fi

F A-InL

Wetmore 1960, James & White 1987, Vitikainen 2007a, Ahti et al. 2012

Nephroma expallidum (Nyl.) Nyl.

Opisteria expallida (Nyl.) Vain.

On the ground in heaths, in forests, etc., mainly in alpine and subalpine areas.

S Dlr-TL

N He-Bu Te Ho-Fi

F Ks-InL

Wetmore 1960, Hakulinen 1965, James & White 1987, Vitikainen 2007a, Ahti et al. 2012

Nephroma helveticum Ach.

Nephromium helveticum (Ach.) Nyl.

On shaded, basic rock.

S Vb

N Op Bu

F U EH Ks

James & White 1987, Vitikainen 2007a, Ahti et al. 2012, Klepsland 2013, Westberg et al. 2015a, Westberg et al. 2015a

Nephroma isidiosum (Nyl.) Gyeln.

On phyllitic schist.

S TL

N -

F -

Vitikainen 2007a, Ahti et al. 2012

Nephroma laevigatum Ach.

Nephromium laevigatum (Ach.) Körb.

Nephroma lusitanicum Schaer.

On deciduous trees or on rock, sometimes overgrowing bryophytes.

S (Sk) ÖI-Dlr Gst Hls Mpd Jmt ÅsL

N Øf-Tr

F A-EH EP PS PK

Degelius 1935, Wetmore 1960, James & White 1987, Arup et al. 1997, Thor & Arvidsson 1999, Vitikainen 2007a, Ahti et al. 2012, Klepsland 2013

Nephroma orvoi Tindal et al.

On rock, shrubs and tree trunks in subalpine birch forest, subalpine pine forest, boreal spruce-dominated forest, boreal rainforest (rarely) and alpine habitats up to 1400 m altitude.

S Dlr ÅsL-TL

N Op SF ST-Fi

F EnL

Tindal et al. 2020

Nephroma parile (Ach.) Ach.

Nephromium parile Ach.

On deciduous trees, often Salix, Sorbus or Populus, sometimes on rock or on lignum.

S Sk-TL

N Øf-Fi

F A-InL

Wetmore 1960, Vitikainen 2007a, Ahti et al. 2012

Nephroma resupinatum (L.) Ach.

Nephroma norrlinii Gyeln.

Nephroma papyraceum (Hoffm.) De Not.

Nephromium resupinatum (L.) Arnold

Nephroma tomentosum (Hoffm.) Flot.

On deciduous trees or on rock.

S Sk-TL

N Øf-Fi

F A-InL

Wetmore 1960, Knox 1982, Vitikainen 2007a

Nephroma tangeriense (Maheu & A.Gillet) Zahlbr.

On slightly basic rocks and boulders, sometimes on tree bases.

S -

N VA Ro Ho

F -

Klepsland 2013

**Nesolechia erichsenii* Räsänen

Nom. non satis nota (Hawksworth & Atienza 1994)

***Nesolechia fusca (Triebel & Rambold) Pérez-Ortega**

Phacopsis fusca (Triebel & Rambold) Diederich

Nesolechia oxyspora var. *fusca* (Triebel & Rambold) Diederich

Phacopsis oxyspora var. *fusca* Triebel & Rambold

On *Xanthoparmelia conspersa*, *X. stenophylla*, *X. tinctina* (thallus).

S Sk Sm Bh Upl

N -

F -

Triebel & Rambold 1988, Diederich 2003, Spribille et al. 2010, Spribille et al. 2010

Nesolechia oxyspora (Tul.) A.Massal.

Lecidea oxyspora (Tul.) Nyl.

Nesolechia oxyspora var. *defecta* ined.

Phacopsis oxyspora (Tul.) Triebel & Rambold var. *defecta* Triebel & Rambold

Phacopsis oxyspora (Tul.) Triebel & Rambold

On *Platismatia glauca*, *Platismatia norvegica*, *Parmelia saxatilis*, *Parmelia fraudans*, *Parmelia sulcata*, *Montanelia soorediata* (thallus).

S Sk-Jmt

N Ak Op SF ST-Tr

F A U EK EH ES PS PK OP-Ks SoL InL

Degelius 1935, Degelius 1935, Santesson 1949, Santesson 1984b, Triebel & Rambold 1988, Alstrup & Hawksworth 1990, Triebel et al. 1995, Persoh & Rambold 2002

Nevesia sampaiana (Tav.) P.M.Jørg et al.

Fuscopannaria sampaiana (Tav.) P.M.Jørg.

Pannaria sampaiana Tav.

On shaded and often mossy rocks or on bark of deciduous trees.

S (Bh) (Vg)

N VA-SF ST-No

F -

Jørgensen & Ryvarden 1970, Löfgren & Moberg 1984, Holien & Hilmo 1991, Tønsberg et al. 1996, Thor & Arvidsson 1999

***Niesslia cladoniicola D.Hawksw. & W.Gams**

On *Cladonia stellaris*, *C. stygia* (thallus).

S Jmt Vb Nb

N -

F EH KP EnL

Hawksworth 1975a

***Niesslia lobariae Etayo & Diederich**

On *Lobaria pulmonaria* (thallus).

S Upl (Båtfors 1988 M. Wedin)

N -

F -

Etayo & Diederich 1996a

***Niesslia peltigericola (D.Hawksw.) Etayo**

Raciborskiomyces peltigericola (D.Hawksw.) M.E.Barr

Wentomyces peltigericola D.Hawksw.

On *Peltigera* *aphthosa*, *P. britannica*, *P. leucophlebia*, *P. malacea*, *P. scabrosa* (thallus).

S Vrm Hvj Jmt

N Op Ho NT No Tr

F A-InL

Hawksworth 1980b, Øvstedal 1986, Santesson 1988, Kümmerling & Alstrup 1992, Barr 1997, Alstrup et al. 2008, Etayo & Sancho 2008, Puolasmaa et al. 2012

***Nigropuncta rugulosa D.Hawksw.**

On *Bellemeria cinereorufescens* (thallus).

S Jmt LyL PL

N Op Tr

F -

Hawksworth 1981b, Hawksworth & Poelt 1986, Hafellner 1993b, Alstrup et al. 2008, Svensson et al. 2011

Normandina acroglypta (Norman) Aptroot

Thelidium acroglyptum Norman

Lauderlindsaya chlorococca (Leight.) Diederich & Sérus.

Verrucaria chlorotica Leight.

Verrucaria contribulans Nyl.

Thelidium corticola H.Magn.

Lauderlindsaya erichsenii (Keissl.) Diederich & Sérus.

Normandina erichsenii (Keissl.) Aptroot

Thelidium erichsenii Keissl.

Thelidium sorbinum (Nyl. ex Hulting) Hulting

On deciduous trees, sometimes on bryophytes.

S Sk Öl Gtl HI-Ög Vsm Upl Dlr Jmt

N Øf Ak Op Vf-AA Ro-SF ST-No

F St EH PH

Hulting 1900, David & Hawksworth 1989, Diederich et al. 1991, Aptroot 1991b, Johansson 1992, Diederich & Sérusiaux 1993, Aptroot 1998, Berglund & Andersson 2008

Normandina pulchella (Borrer) Nyl.

Lauderlindsaya borneri (Tul.) J.C.Davis & D.Hawksw.

Normandina jungermanniae Nyl.

On bryophytes (especially *Frullania*) and lichens (especially *Parmeliella* and *Pannaria*), on bark and rocks.

S Sk HI-Ög Mpd Jmt PL

N He Op Vf-No

F EnL

Henssen 1976, Löfgren & Moberg 1984, Hultengren et al. 1993, Arup et al. 1997, Aptroot 1998, Thor & Arvidsson 1999

***Norrinia peltigericola (Nyl.) Theiss. & Syd.**

Pleosphaeropsis peltigericola (Nyl.) Vain.

Pleospherulina peltigericola (Nyl.) Vouaux

Verrucaria peltigericola Nyl.

On *Peltigera canina* (thallus).

S -

N -

F EH (1874)

Vainio 1921, Hawksworth 1980b

***Obryzum corniculatum Wallr.**

Guignardia corniculata (Wallr.) Keissl.

Metasphaeria corniculata (Wallr.) Sacc. & D.Sacc.

Sphaerulina corniculata (Wallr.) Vouaux

On *Scytinium teretiusculum* (thallus).

S Upl

N SF

F -

Fries 1856, Eriksson 1981, Cannon et al. 1985, Hoffmann & Hafellner 2000

***Obryzum friesii (Keissl.) Nik.Hoffm. & Hafellner**

Physalospora friesii Keissl.

On *Leptogium* sp. (thallus).

S (Upl) (Uppsala 1866 Th. M. Fries)

N -

F -

Hoffmann & Hafellner 2000

Ochrolechia alaskana (Versegby) Kukwa

On bryophytes, plant remains or soil, rarely on rock.

S Jmt LyL

N Op

F EnL

Kukwa 2011

Ochrolechia alboflavescens (Wulfen) Zahlbr.

Mostly on bark and lignum of conifers, sometimes on deciduous trees.

S Upl-Dlr Hls Jmt Vb ÅsL

N He-Bu Te AA SF ST-Tr

F A-SoL

Versegby 1962, Howard 1970, Brodo 1991, Tønsberg 1992b

Ochrolechia androgyna (Hoffm.) Arnold

Ochrolechia androgyna var. *pergranulosa* Räsänen

Ochrolechia pergranulosa (Räsänen) Vers.

Ochrolechia subtartarea (Nyl.) A.Massal.

Corticulous, saxicolous, sometimes muscicolous or lignicolous.

S Sk-TL

N Øf-Fi

F A-InL

Degelius 1939a, Almborn 1948, Almborn 1955b, Versegghy 1962, Howard 1970, Tønsberg 1992b

Ochrolechia arborea (Kreyer) Almb.

Pertusaria arborea (Kreyer) Zahlbr.

Pertusaria myriosora Erichsen

Lecanora perleprosa Räsänen

Ochrolechia sordidogrisea (Erichsen) E.Schreiner & Hafellner

Pertusaria sordidogrisea Erichsen

On bark or lignum of deciduous trees, rarely Pinus, Juniperus or Calluna.

S Sk Öl Sm Gtl Hl Vg Nrk Vrm-Dlr Ång Hvj

N Øf Op Bu Te-VA Ho Mr ST

F V U EH-ES PH OP

Almborn 1955a, Versegghy 1962, Hanko 1983, Muhr 1987a, Tønsberg 1992b

Ochrolechia bahusiensis H.Magn.

On bark of deciduous trees, sometimes conifers.

S Sk Bl Gtl Hl Bh Vg Nrk Vrm Vg Dlr

N Øf-Op Vf-MR

F V ES PeP

Magnusson 1927, Kukwa 2009, Kukwa 2011

Ochrolechia brodoi Kukwa

On bark and lignum of *Picea abies*, often on twigs and branches, rarely on *Populus*.

S Vrm Dlr Jmt

N ST No

F -

Holien 1998b, Kukwa 2011

Ochrolechia frigida (Sw.) Lyngé

Ochrolechia elisabethae kolae Verseggy
Ochrolechia frigida f. *lapuënsis* (Vain.) Tønsberg
Ochrolechia gonatodes (Ach.) Räsänen
Ochrolechia inaequatula (Nyl.) Zahlbr.
Ochrolechia lapuënsis (Vain.) Räsänen
Ochrolechia pterulina (Nyl.) G.E.Howard
Ochrolechia tartarea var. *theleporoides* (Th.Fr.) Arnold
Ochrolechia tartarea var. *lapuensis* Räsänen

On bryophytes and plant debris, rarely bark.

S Gtl-TL
N Øf-Bu Te AA Ro-Fi
F A-U St EH EP PH KP-InL

Magnusson 1952a, Verseggy 1962, Degelius 1968, Howard 1970, Tønsberg 1992b

Ochrolechia gowardii Brodo

On bark and lignum of conifers, often twigs and branches.

S Jmt
N Op ST-No
F -

Brodo 1991, Holien 1992b, Jonsson 2002b

Ochrolechia grimmiae Lyngé

Ochrolechia frigida var. *grimmiae* (Lyngé) Malme

On bryophytes on soil or rock.

S Jmt-TL
N He Op Ho SF No-Fi
F EnL

Verseggy 1962, Howard 1970, Timdal 1987a, Timdal 1987a

Ochrolechia incarnata (Leight.) Kukwa et al.

Pertusaria incarnata Leight.

On non-calcareous rocks.

S Vg
N -
F -

Kukwa et al. 2018

Ochrolechia juvenalis Brodo

Not in F, N or S. Reports from N and S refer to *Ochrolechia brodoi*.

Brodo 1991

Ochrolechia mahuensis Räsänen

Ochrolechia pergranulosa (Räsänen) Verseghy

On bark of deciduous trees and conifers.

S Sm Vrm Upl Dlr Hls Jmt ÅL TL

N He-Bu AA SF-Fi

F V St EH PH

Räsänen 1946, Kukwa 2011

Ochrolechia microstictoides Räsänen

Pertusaria leprarioides auct.

Pertusaria silvatica H.Magn.

On acidic tree bark and lignum.

S Sk-LuL

N Øf-Bu Te-Tr

F A-Ks

Verseghy 1962, Laundon 1963, Hanko et al. 1985, Arvidsson et al. 1988, Arup & Ekman 1991b, Tønsberg 1992b

Ochrolechia oregonensis H.Magn.

Not in F, N or S. Report from Norway refers to *Ochrolechia brodoi*.

Brodo 1991, Brodo 1992

Ochrolechia pallescens (L.) A.Massal.

Ochrolechia parella var. *tumidula* auct., non (Pers.) Arnold

On deciduous trees, rarely on rock.

S Sk-TL

N Øf-AA Ro-Fi

F A-PK PeP

Fries 1871, Verseghy 1962, Howard 1970

Ochrolechia parella (L.) A.Massal.

Ochrolechia pallescens var. *parella* (L.) Körb.

Saxicolous.

S Sk-Ög

N Øf Ak Bu Te-Tr Fi

F -

Fries 1871, Verseghy 1962, Howard 1970

Ochrolechia pseudotartarea (Vain.) Verseghy

Not in F, N or S. Report from TL probably refers to *Ochrolechia szatalënsis*.

Ochrolechia rhodoleuca (Th.Fr.) Brodo

Pertusaria rhodoleuca Th.Fr.

Saxicolous.

S -

N Ho Tr Fi

F -

Fries 1871, Brodo 1988

Ochrolechia subathallina H.Magn.

Not in F, N or S. Misidentification of Ochrolechia pallescens?

Ochrolechia subviridis (Høeg) Erichsen

Pertusaria subviridis Høeg

On bark of old, deciduous trees and shrubs.

S Sk-Upl

N Vf AA-MR

F V

Høeg 1923, Magnusson 1927, Almborn 1948, Verseghy 1962, Laundon 1963, Hanko 1983, Brodo 1991, Tønsberg 1992b

Ochrolechia szatalaensis Verseghy

On bark and lignum of deciduous trees and conifers.

S Sm Öl Gtl Srm Vrm Vsm Upl Dlr Hls Ång Jmt ÅsL TL

N Ak Bu-AA Ho-Fi

F EH

Verseghy 1962, Brodo 1991, Berglund & Andersson 2008, Kukwa 2011

Ochrolechia tartarea (L.) A.Massal.

Ochrolechia pulvinata Verseghy

Ochrolechia tartarea f. *granulosa* Räsänen

Saxicolous.

S Sk-Jmt TL

N Øf-Fi

F A

Fries 1871, Degelius 1939a, Verseghy 1962, Howard 1970

Ochrolechia turneri (Sm.) Hasselrot

Buellia farinosa Malme

Pertusaria henrici Harm.

Pertusaria leprarioides auct.

Ochrolechia parella var. *turneri* (Sm.) Arnold

On bark of deciduous trees.

S Sk-Ång

N Øf Bu-NT

F A-U

Hasselrot 1945a, Verseghy 1962, Laundon 1963, Hanko 1983, Arvidsson et al. 1988, Brodo 1991, Tønsberg 1992b

Ochrolechia upsaliensis (L.) A.Massal.

Terricolous on bryophytes and plant debris.

S Upl-TL

N He-Bu Ho ST-Fi

F Ks EnL InL

Fries 1871, Pettersson 1958, Verseghy 1962, Howard 1970

Ochrolechia xanthostoma (Sommerf.) K.Schmitz & Lumbsch

Pertusaria xanthostoma (Sommerf.) Fr.

On bark of Juniperus, rarely Betula, or on bryophytes or directly on rock (then mostly calcareous rock).

S -

N Ho SF NT No Fi

F -

Fries 1871, Høeg 1923, Hanko 1983, Brodo 1988, Schmitz et al. 1994

***Opegrapha anomea Nyl.**

On *Pertusaria amara* (thallus).

S -

N ST NT

F -

Holien 2001, Ertz et al. 2004, Frisch et al. 2020a

Opegrapha catarrhapha (Vain.) H.Olivier

Opegrapha abscondita subsp. *catarrhapha* Vain.

On granitic rocks.

S -

N -

F InL

Vainio 1883

Opegrapha cesareensis Nyl.

On coastal rocks.

S Sk

N -

F -

Torrente & Egea 1989

Opegrapha dolomitica (Arnold) Clauzade & Cl.Roux

On shaded calcareous rock.

S Öl Gtl Ög Jmt LyL

N Ho NT No Tr Fi

F Ks

Redinger 1938, Torrente & Egea 1989, Pykälä 2010b

***Opegrapha lamyi (O.J.Rich ex Nyl.) Triebel**

Leciographa lamyi (O.J.Rich ex Nyl.) Sacc.

On thalli of *Lecanora* and *Athallia* on bark of *Populus*.

S -

N -

F U

Opegrapha lithyrge Ach.

On shaded rocks.

S Sk Bl Gtl Bh-Ög Upl

N ?

F ?

Opegrapha niveoatra (Borrer) J.R.Laundon

Opegrapha subsiderella (Nyl.) Arnold

Opegrapha vulgata var. *subsiderella* Nyl.

On bark of deciduous trees.

S Sk-Ög Vrm

N Ro

F A EH

Redinger 1938, Degelius 1944a, Almborn 1948, Almborn 1955b, Laundon 1963, Skjolddal 1982, Torrente & Egea 1989

***Opegrapha parasitica (A.Massal.) H.Olivier**

On *Circinaria calcarea* on limestone.

S ÖI

N -

F -

Arup 2018

Opegrapha paraxanthodes Nyl.

On calcareous, shaded vertical rock.

S -

N Bu

F -

Frisch et al. 2020a

***Opegrapha pertusariicola Coppins & P.James**

On *Pertusaria leioplaca*.

S -

N Ho MR

F -

Frisch et al. 2020a

***Opegrapha pulvinata Rehm**

Leciographa pulvinata (Rehm) Arnold

Celidium pulvinatum (Rehm) Rehm

On *Dermatocarpon miniatum*, *Dermatocarpon* sp. (thallus).

S Srm Upl Hrj TL

N Øf Ak Vf AA No

F St

von Keissler 1930, Santesson 1994a

***Opegrapha rupestris Pers.**

Opegrapha centrifuga A.Massal.

Opegrapha persoonii (Ach.) Ach.

Opegrapha saxatilis DC.

Opegrapha saxicola Ach.

On *Verrucaria calciseda*, *Bagliettoa* sp. (thallus).

S ÖI Gtl Vg Ög Nrk

N Ho

F EH PK

von Keissler 1930, Redinger 1938, James 1970, Torrente & Egea 1989, Frisch et al. 2020a

***Opegrapha sphaerophorica Isbrand & Alstrup**

On Sphaerophorus globosus.

S -
N SF
F -

Frisch et al. 2020a

***Opegrapha stereocaulicola Alstrup & D.Hawksw.**

On Stereocaulon alpinum (thallus).

S -
N Tr
F -

Alstrup & Hawksworth 1990, Alstrup et al. 2008

Opegrapha subparallela Müll.Arg.

Opegrapha xylographiza Nyl.

On lignum.

S -
N -
F EH

Redinger 1938, Poelt 1969, Clauzade & Roux 1985

Opegrapha suecica Källsten ex G.Thor

On vertical or overhanging calcareous rock.

S Öl Gtl Vg Ög NrK
N -
F V

Foucard 2001, Thor 2004

***Opegrapha thelotrematis Coppins**

On Thelotrema lepadinum.

S -
N Ho MR
F -

Frisch et al. 2020a

Opegrapha vermicellifera (Kunze) J.R.Laundon

Opegrapha fuscella (Fr.)Almb.

Opegrapha hapaleoides Nyl.

On old deciduous trees, often on Ulmus and often near the base.

S Sk-Bh Vg Ög
N Ro Ho MR
F V

Redinger 1938, Almborn 1948, Laundon 1963, Botnen & Tønsberg 1988, Torrente & Egea 1989, Arup et al. 1997, Thor & Arvidsson 1999, Pykälä 2018

Opegrapha vulgata (Ach.) Ach.

Opegrapha cinerea Chevall.

Opegrapha confluens (Ach.) Stizenb.

Opegrapha devulgata Nyl.

Opegrapha lithyrgodes Nyl.

On bark of deciduous trees.

S Sk-Ång

N Ak Bu Vf VA-NT

F A-U St-PK

Redinger 1938, Magnusson 1942b, Degelius 1942, Torrente & Egea 1989, Schauer 1966

Ophioparma lapponica (Räsänen) Hafellner & R.W. Rogers

Haematomma lapponicum Räsänen

Haematomma ventosum var. *lapponicum* (Räsänen) Lyngé

On siliceous rocks, mainly in northern Scandinavia.

S ?-TL

N ?-Fi

F PeP KiL-InL

Degelius 1937, Skult 1997, May 1997

Ophioparma ventosa (L.) Norman

Haematomma lapponicum var. *violascens* Räsänen

Haematomma ventosum (L.) A.Massal.

Haematomma ventosum var. *cuprigenum* Poelt

On siliceous rocks.

S BI-TL

N Øf-Bu Te AA Ro-Fi

F A-InL

Poelt 1955, Skult 1997, May 1997

Orphniospora moriopsis (A.Massal.) D.Hawksw.

Buellia atrata (Sm.) Anzi

Orphniospora atrata (Sm.) Poelt

Buellia bahusiensis Degel., nom. nud.

Buellia coracina Körb.

Buellia moriopsis (A.Massal.) Th.Fr.

Buellia subtenebrosa Malmé

On siliceous rocks.

S Vg-TL

N Ak-Bu Te AA Ro-MR NT-Fi

F A-U EP PeP-KiL EnL InL

Fries 1874, Malmé 1918a, Degelius 1931, Degelius 1939a, Hawksworth 1982b

Orphniospora moriopsoides (Vain.)

Lecidea atrata subsp. *moriopsoides* Vain.

Buellia moriopsoides (Vain.) Zahlbr.

Saxicolous.

S Dlr Hrj(?) LyL

N -

F V PeP SoL InL

Räsänen 1931, Magnusson 1946, Hermansson 2008a

Orphniospora mosigii (Körb.) Hertel & Rambold

Lecidea mosigii (Körb.) Anzi

Lecidea obscurissima Nyl.

Not in F, N or S.

Hertel & Rambold 1988a

Pachnolepia pruinata (Pers.) Frisch & G.Thor

Arthonia impolita (Hoffm.) Borrer

Arthonia pruinata (Pers.) A.L.Sm.

Patellaria pruinata Pers.

On rough bark of *Quercus*.

S Sk-HI Vg Ög

N SF

F -

Almquist 1880, Almborn 1948, Coppins & James 1978, Litterski 1992, Litterski 1992, Arup et al. 1997, Sundin & Tehler 1998, Thor & Arvidsson 1999, Frisch et al. 2014, Frisch et al. 2020a

Pachyascus lapponicus Poelt & Hertel

On bryophytes (*Andreaea rupestris*) on acidic rocks.

S LuL TL

N Ho

F -

Poelt & Hertel 1968, Grube 2002a, Grube 2002b, Westberg et al. 2016

Pachypeltis castellana (Räsänen) Søchting et al.

Caloplaca castellana (Räsänen) Poelt

Placodium castellanum Räsänen

On calcareous schist, cyanotrophic.

S Jmt LyL PL LuL TL

N Op Ho ST Tr Fi

F KiL EnL

Poelt & Buschardt 1978, Hansen et al. 1987, Poelt & Mayrhofer 1988, Arup 2011a, Arup et al. 2013

Pachypeltis invadens (Lyngé) Søchting et al.

Caloplaca invadens Lyngé

On *Lecanora* sp. and *Physcia caesia* (thallus) on rocks.

S TL

N -

F -

Hansen et al. 1987, Alstrup 1991, Arup et al. 2013

Palicella filamentosa (Stirt.) Rodr.Flakus & Printzen

Lecidea dalecarlica Hedl.

Lecanora filamentosa (Stirt.) Elix & Palice

Lecidea ramulicola (H.Magn.) Hillm.

Lecidea saepincola var. *ramulicola* H.Magn.

Lignicolous.

S Bh Upl Dlr

N Op AA Ho

F V

Hedlund 1892, Printzen & May 2002, Palice et al. 2011

Pannaria conoplea (Ach.) Bory

Pannaria caeruleobadia (Schleich. ex Lam.) A.Massal.

Pannaria pityrea (DC.) G.B.F.Nilsson

On deciduous trees, sometimes on shaded rock.

S (Sk) (Bl) Sm-Srm Vrm (Upl) Dlr Gst Mpd Hrt Jmt ÅsL PL-TL

N VA-Fi

F -

Degelius 1935, Jørgensen & Ryvarden 1970, Jørgensen 1978, Löfgren & Moberg 1984, Nordin 1987, Hultengren et al. 1993, Arup et al. 1997, Thor & Arvidsson 1999, Jørgensen 2007g, Ahti et al. 2012

Pannaria hookeri (Borrer ex Sm.) Nyl.

Pannaria leucolepis (Wahlenb.) Nyl.

On moist and slightly calcareous, often phyllitic, rock.

S Jmt LyL-TL

N Op Ro-Fi

F EnL

Jørgensen 1978, Jørgensen 2000b, Jørgensen 2007g, Ahti et al. 2012

Pannaria rubiginosa (Ach.) Bory

On trees (*Populus*, *Betula*, *Sorbus*, *Fraxinus*, etc.), very seldom on rocks.

S (Sk) Sm (Hl) Bh Dls Vg Jmt

N Øf Ak Vf AA-No

F -

Degelius 1935, Jørgensen 1978, Löfgren & Moberg 1984, Hultengren et al. 1993, Arup et al. 1997, Thor & Arvidsson 1999, Jørgensen 2007g, Ahti et al. 2012

Parabagliettoa cyanea (A.Massal.) Gueidan & Cl.Roux

Verrucaria cyanea A.Massal.

Verrucaria decussata Garov.

Verrucaria limitata Kremp.

Thelidium limitatum (Kremp.) Servít

On calcareous rocks.

S ÖI Gtl TL

N Ho

F V

Havaas 1918, Magnusson 1952a, Gueidan et al. 2009, Pykälä 2010a

Parabagliettoa disjuncta (Arnold) Krzewicka

Verrucaria disjuncta Arnold

On dolomite.

S -

N -

F EnL (Pikku Malla 2007, Pykälä)

Pykälä 2010c, Krzewicka 2012

Parabagliettoa dufourii (DC.) Gueidan & Cl.Roux

Verrucaria concinna Borrer

Thelidium dufourii (DC.) Servít

Verrucaria dufourii DC.

On calcareous rocks.

S ÖI Gtl Nrk Srm Vsm Dlr

N Ak SF No

F V EnL

Fröberg 1989, Berglund & Andersson 2008, Gueidan et al. 2009

***Paralecia pratorum Brackel et al.**

On *Protoparmeliopsis muralis*.

S Upl

N -

F -

Svensson et al. 2017b

***Paranectria affinis (Grev.) Sacc.**

On *Ephebe lanata*, *Fuscopannaria ahlneri*, *Parmeliella parvula* (thallus).

S Vg

N ST NT

F -

Hawksworth & Pirozynski 1977, Hawksworth 1983a

***Paranectria oropensis (Cesati) D.Hawksw. & Piroz.**

On a sterile, white lichen thallus.

S LuL (Snjännak 1871 Hellbom)

N Ro Ho

F -

Hawksworth & Pirozynski 1977, Hawksworth 1982a, Triebel 1989, Nordén et al. 2017a

Parmelia ernstiae Feuerer & A.Thell

On bark of deciduous trees.

S Sk Bl Gtl-Vg Upl

N NT

F V U EH

Feuerer & Thell 2002, Thell 2003, Nordén 2005, Thell et al. 2011b, Thell et al. 2017, Haugan & Timdal 2019a

Parmelia fraudans (Nyl.) Nyl.

Parmelia saxatilis subsp. *fraudans* Nyl.

On siliceous rock.

S Sm-TL (rare from Vg and Ög southwards)

N Ak-Bu Te Ro SF ST-Fi

F V-InL

Hale 1987, Thell et al. 2011b

Parmelia hypotrypodes Nyl.

Uncertain application, a *Hypogymnia* sp.

Nylander 1874b

Parmelia omphalodes (L.) Ach.

Thell et al. 2011b

Parmelia omphalodes (L.) Ach. subsp. discordans (Nyl.) Skult

Parmelia discordans Nyl.

Parmelia omphalodes var. *discordans* (Nyl.) H.Magn.

Parmelia omphalodes var. *insensitiva* H.Magn.

On siliceous rock.

S Sk Bl Sm Bh-Ög Srm Vrm Upl

N VA-SF NT No

F A-EH

Thell et al. 2011b

Parmelia omphalodes (L.) Ach. subsp. omphalodes

Parmelia omphalodes f. *corticola* Koskinen

On siliceous rock.

S Sk-TL

N Øf-Fi

F A-KP OP-InL

Thell et al. 2011b

Parmelia pinnatifida Kurok.

Parmelia omphalodes (L.) Ach. subsp. *pinnatifida* (Kurok.) Skult

On siliceous rock.

S HI-Vrm Upl-Gst Mpd Ång Jmt ÅsL-TL

N Ho-Fi

F A-St EH-Kn PeP-InL

Culberson 1970, Skult 1984, Hale 1987, Skult 1987, Skult et al. 1990, Thell et al. 2011b

Parmelia saxatilis (L.) Ach.

On siliceous rock, occasionally overgrowing bryophytes, or on tree bark, sometimes on lignum.

S Sk-TL

N Øf-Fi

F A-InL

Hale 1987, Thell et al. 2011b

Parmelia serrana A.Crespo et al.

On deciduous trees and conifers.

S Sk Hl Bh Ög

N Vf ST

F A-U EH

Molina et al. 2004, Hawksworth et al. 2008, Thell et al. 2011b, Thell et al. 2017, Haugan & Timdal 2019a

Parmelia submontana Nád. ex Hale

Parmelia contorta Bory, non (Hoffm.) Spreng.

On bark of deciduous trees.

S Sk Hl Vg

N VA

F -

Hale 1987, Arvidsson 1989, Arup et al. 1997, Thor & Arvidsson 1999, Thell et al. 2011b, Thell et al. 2017

Parmelia sulcata Taylor

Mostly on tree bark, sometimes on rock or on lignum.

S Sk-TL

N Øf-Fi

F A-InL

Hale 1987, Thell et al. 2011b

Parmeliella parvula P.M.Jørg.

Parmeliella jamesii S.Ahlner & P.M.Jørg.

On twigs of Picea, trunks of deciduous trees and rock in continuously damp sites.

S Vrm Jmt

N Ro-Ho SF-No

F -

Ahlner 1948, Jørgensen 1978, Löfgren & Moberg 1984, Jørgensen 1991, Thor & Arvidsson 1999, Jørgensen 2007g, Ahti et al. 2012

Parmeliella testacea P.M.Jørg.

On mossy trees and rocks.

S -

N Ro Ho

F -

Jørgensen 1978, Botnen 1984, Arvidsson 1986, Tønsberg et al. 1996, Jørgensen 1996, Jørgensen 2007g, Ahti et al. 2012

Parmeliella triptophylla (Ach.) Müll.Arg.

Parmeliella corallinoides auct., non (Hoffm.) Zahlbr.

Parmeliella furfurascens (Nyl.) Lyngé, specimen reported from Norway

Pannaria triptophylla (Ach.) A.Massal.

Mostly on bark of deciduous trees (often *Populus tremula*), rarely on conifers, rock or bryophytes.

S Sk-TL

N Øf-Fi

F V-InL

Jørgensen 1978, Jørgensen 2007g, Ahti et al. 2012

Parmelina pastillifera (Harm.) Hale

Parmelia pastillifera (Harm.) R.Schub. & Klem.

Parmelia scorstea f. *borealis* Norman ex Lyngé

Parmelia tiliacea var. *pastillifera* (Harm.) Grunmann

On trunks of deciduous trees, and on maritime rocks.

S Bh Ög

N VA-SF No

F V

Jørgensen 1972a, Hale 1976a, Dobson & Hawksworth 1976, Puolasmaa 1989, Jørgensen 1996, Thell 2011a

Parmelina quercina (Willd.) Hale

On trunks of *Carpinus*, *Quercus* and *Acer*.

S Bh Vg

N -

F -

Arvidsson et al. 2012, Larsson 2012

Parmelina tiliacea (Hoffm.) Hale

Parmelia scorstea (Ach.) Ach.

Parmelia tiliacea (Hoffm.) Ach.

On deciduous trees by roads, on churchyards, etc., sometimes on sea shore rocks or stone-walls by churches, etc.

S Sk-Hls

N Øf Ak Op-MR No

F A-U EH

Hale 1976a, Puolasmaa 1988, Arup et al. 1997, Thor & Arvidsson 1999, Thell 2011a

Parmeliopsis ambigua (Wulfen) Nyl.

Foraminella ambigua (Wulfen) S.L.F.Meyer

Parmeliopsis diffusa auct.

On acidic tree bark and lignum, rarely on rock.

S Sk-TL

N Øf-Fi

F A-InL

Ahti et al. 2011

Parmeliopsis esorediata (Degel.) Nordnes

Foraminella esorediata (Degel.) Lumbsch

Parmeliopsis hyperopta var. *esorediata* Degel.

Mostly on Betula, sometimes on Picea, Sorbus or Juniperus.

S -

N Op Bu AA

F -

Degelius 1956, Nordnes 1982a, Hawksworth 1985a, Tønsberg et al. 1996, Ahti et al. 2011

Parmeliopsis hyperopta (Ach.) Arnold

Foraminella hyperopta (Ach.) S.L.F.Meyer

On acidic tree bark and lignum, rarely on rock.

S Sk-TL

N Øf-Fi

F A-InL

Hawksworth 1976, Ahti et al. 2011

Parmotrema arnoldii (Du Rietz) Hale

Parmelia arnoldii Du Rietz

On mossy rocks and tree-trunks.

S -

N Ro

F -

Degelius 1935, Hale 1965b, Tønsberg et al. 1996, Jørgensen 1996, Elix & Thell 2011b

Parmotrema crinitum (Ach.) M.Choisy

Parmelia crinita Ach.

Parmelia excrescens (Arnold) Hav

Parmelia excrescens var. *pilosella* (Hue) Lyngø

On mossy siliceous rocks.

S -

N VA-SF

F -

Degelius 1935, Hale 1965b, Jørgensen & Ryvarden 1970, Tønsberg et al. 1996, Jørgensen 1996, Elix & Thell 2011b

Parmotrema perlatum (Huds.) M.Choisy

Parmotrema chinense auct., non Hale & Ahti

Parmelia coniocarpa Laurer, nom. legit.

Parmelia perlata Ach., nom. illeg.

Parmelia trichotera Hue

Parmotrema trichoterum (Hue) M.Choisy

On mossy siliceous rocks or on trunks of deciduous trees and conifers.

S Sk Bh

N VA-SF

F -

Almborn 1948, Hale 1965b, Jørgensen & Ryvarden 1970, Hale & Ahti 1986, Jørgensen 1996, Hawksworth 2004, Elix & Thell 2011b, Hultengren et al. 2011

Parvoplaca nigroblastidiata Arup et al.

On trunks of *Populus tremula*.

S Ög Dlr Gst Jmt

N Op Bu

F -

Arup et al. 2015, Klepsland 2020

Parvoplaca suspiciosa (Nyl.)Arup et al.

Caloplaca caeruleoatra H.Magn.

Caloplaca suspiciosa (Nyl.) H.Magn.

Lecanora suspiciosa Nyl.

Corticolous on deciduous trees, primarily *Populus tremula*.

S Dlr Hrj LuL TL

N -

F Ks EnL InL

Magnusson 1936a, Magnusson 1950a, Arup et al. 2013

Parvoplaca tiroliensis (Zahlbr.)Arup et al.

Caloplaca arctica H.Magn.

Caloplaca ferruginea var. *melanocarpa* Th.Fr.

Caloplaca friesii H.Magn.

Caloplaca jungermanniae var. *subolivacea* (Th.Fr.) Th.Fr.

Caloplaca melanocarpa (Th.Fr.) J.Steiner

Caloplaca subolivacea (Th.Fr.) Lyngé

Callopisma subolivaceum (Th.Fr.) Räsänen

Caloplaca tiroliensis Zahlbr.

On bryophytes, plant debris and soil, sometimes on bark (*Juniperus*, etc.).

S Hrj-TL

N Op Ho SF ST Tr Fi

F Kn Ks EnL InL

Fries 1871, Lyngé 1928, Magnusson 1950a, Hansen et al. 1987, Søchting 1989, Søchting 1992, Arup et al. 2013

Pectenیا atlantica (Degel.) P.M.Jørg. et al.

Degelia atlantica (Degel.) P.M.Jørg. & P.James

Parmeliella atlantica Degel.

On rock or on bark of deciduous trees, often on or among bryophytes.

S -

N Ro-MR

F -

Degelius 1935, Jørgensen 1978, Jørgensen & James 1990, Tønsberg et al. 1996, Jørgensen 1996, Jørgensen 2007g, Ahti et al. 2012, Ekman et al. 2014

Pectenia cyanoloma (Schaer.) P.M.Jørg. et al.

Degelia cyanoloma (Schaer.) H.H.Blom & L.Lindblom

On deciduous trees or on rock in humid E- or N-facing slopes near the sea and in coastal coves.

S -

N Ro Ho SF

F -

Ekman et al. 2014, Blom & Lindblom 2009

Pectenia plumbea (Lightf.) P.M.Jørg. et al.

Degelia plumbea (Lightf.) P.M.Jørg. & P.James

Pannaria plumbea (Lightf.) Bory

Parmeliella plumbea (Lightf.) Vain.

On shaded tree trunks (Populus, Fraxinus, Sorbus, etc.) and on rocks.

S (Sk) (Bl) Sm-Srm Gst Jmt LyL LuL TL

N Øf-He Bu-Fi

F -

Degelius 1935, Jørgensen 1978, Löfgren & Moberg 1984, Muhr 1987a, Jørgensen & James 1990, Hultengren & Nordén 1996, Arup et al. 1997, Thor & Arvidsson 1999, Jørgensen 2007g, Ahti et al. 2012, Ekman et al. 2014

Peltigera aphthosa (L.) Willd.

Peltidea aphthosa (L.) Ach.

Terricolous, especially among bryophytes in forests, often in shaded places, sometimes also in heaths, etc.

S Sk-TL

N Øf-Fi

F A-InL

Tønsberg & Holtan-Hartwig 1983, Muhr 1987a, Holtan-Hartwig 1993, Vitikainen 1994, Vitikainen 2007b, Ahti et al. 2012

Peltigera britannica (Gyeln.) Holt.-Hartw. & Tønsberg

Peltigera aphthosa f. *britannica* (Gyeln.) Zahlbr.

On naked or mossy rock walls, rarely on mossy trees.

S Vg

N AA-Fi

F -

Tønsberg & Holtan-Hartwig 1983, Holtan-Hartwig 1993, Vitikainen 1994, Jørgensen 1996, Vitikainen 2007b, Svensson & Westberg 2010, Ahti et al. 2012

Peltigera canina (L.) Willd.

Peltigera suomensis Gyeln.

On bryophytes on rock or on the ground, sometimes directly on the ground, often in slight shade.

S Sk-TL

N Øf-Fi

F A-InL

Vitikainen 1994, Vitikainen 2007b, Ahti et al. 2012

Peltigera collina (Ach.) Schrad.

Peltigera scutata (Ach.) Duby

On mossy rocks and on trees in shaded places, sometimes also terricolous.

S Sk-TL

N Øf-Fi

F A-EP PK EnL InL

Holtan-Hartwig 1993, Vitikainen 1994, Vitikainen 2007b, Ahti et al. 2012

Peltigera degenii Gyeln.

Peltigera nitens (Anders) Gyeln.

Peltigera virescens auct.

On bryophytes on the ground, also on decaying stumps, etc.

S Sk Bl Sm Hl Srm-ÅsL Vb LyL TL

N Øf-Fi

F A-PK Kn OP Ks InL

Jørgensen & Øvstedal 1975, Vitikainen 1994, Vitikainen 2007b, Ahti et al. 2012, Arup 2015

Peltigera didactyla (With.) J.R.Laundon

Peltigera erumpens (Taylor) Elenk.

Illosporium globulatum Nyl., refers to the soredia of *P. didactyla*

Peltigera hazslinszkyi Gyeln.

Peltigera leptoderma auct.

Peltigera spuria (Ach.) DC.

Terricolous on roadsides, on burnt places, in heaths, and on stone walls, etc.

S Sk-TL

N Øf-Fi

F A-InL

Laundon 1984a, Laundon 1984a, Vitikainen 1994, Goffinet & Hastings 1995, Vitikainen 2007b, Ahti et al. 2012, Bergsten 2000

Peltigera elisabethae Gyeln.

Terricolous.

S Dls Nrk Dlr Gst Jmt ÅsL LyL TL

N Øf-Bu Te AA Ho-Fi

F V PH Kn

Holtan-Hartwig 1993, Vitikainen 1994, Vitikainen 2007b, Ahti et al. 2012

Peltigera extenuata (Nyl. ex Vain.) Lojka

Peltigera didactyla var. *extenuata* (Nyl. ex Vain.) Gauffinet & Hastings

On mosses over soil, rock or tree bases.

S Sk Öl-Sm Bh Vg-Vrm Upl-TL

N Ak Op Bu Te VA-Fi

F A-InL

Vitikainen 2007b, Ahti et al. 2012

Peltigera frippii Holt.-Hartw.

Terricolous, on bryophytes on sandy or humus-rich soil.

S PL? LuL
N He-Bu Te SF ST Tr Fi
F Ks InL

Holtan-Hartwig 1988, Holtan-Hartwig 1993, Vitikainen 1994, Vitikainen 2007b, Ahti et al. 2012

Peltigera horizontalis (Huds.) Baumg.

On mossy rocks, bases of trees, etc., often in rather open places.

S Sk-Ång Jmt Nb ÅsL
N Øf-NT
F A-ES PH-PK

Holtan-Hartwig 1993, Vitikainen 1994, Vitikainen 2007b, Ahti et al. 2012

Peltigera hymenina (Ach.) Delise

Peltigera lactucifolia auct., non (With.) J.R. Laundon

Peltigera polydactylon var. *crassoides* Gyeln.

Terricolous.

S Sk-Upl
N Øf Ak Bu-Fi (coastal)
F A-U St EP OP

Holtan-Hartwig 1993, Vitikainen 1994, Vitikainen 2007b, Ahti et al. 2012

Peltigera kristinssonii Vitik.

Peltigera occidentalis, sensu Kristins., non *Peltigera scabrosa* v. *occidentalis* Å.E.Dahl

Terricolous on bryophytes.

S Jmt Vb-TL
N Op Ro Ho ST-Fi
F KiL-InL

Kristinsson 1968, Vitikainen 1985a, Carlin 1992, Vitikainen 1994, Vitikainen 2007b, Ahti et al. 2012

Peltigera latiloba Holt.-Hartw.

Terricolous on bryophytes in subalpine birch forest or low-alpine dwarf-shrub vegetation.

S Nb TL
N Op ST Fi
F OP- InL

Holtan-Hartwig 1993, Holtan-Hartwig 2005, Vitikainen 2007b, Ahti et al. 2012

Peltigera lepidophora (Nyl. ex Vain.) Bitter

Among bryophytes or directly on sandy soil.

S Sm-TL
N Øf-Bu Te Ho-ST No-Fi
F A-U St-ES PH-InL

Vitikainen 1994, Vitikainen 2007b, Ahti et al. 2012

Peltigera leucophlebia (Nyl.) Gyeln.

Peltidea leucophlebia (Nyl.) Räsänen

Peltigera variolosa (A.Massal.) Gyeln.

Terricolous, often on roadsides, in heaths, on shaded rock walls, etc.

S Sk-TL

N Øf-Fi

F A-InL

Tønsberg & Holtan-Hartwig 1983, Holtan-Hartwig 1993, Vitikainen 1994, Vitikainen 2007b, Ahti et al. 2012

Peltigera malacea (Ach.) Funck

Terricolous.

S Sk-TL

N Øf-AA Ro-Fi

F A-InL

Holtan-Hartwig 1993, Vitikainen 1994, Vitikainen 2007b, Ahti et al. 2012

Peltigera membranacea (Ach.) Nyl.

Terricolous.

S Sk-LyL

N Øf-Fi

F A-PK Kn Ks

Vitikainen 1994, Vitikainen 2007b, Ahti et al. 2012

Peltigera monticola Vitik.

Terricolous (in meadow in subalpine birch forest).

S Upl Vb LyL TL

N Op

F Kn

Vitikainen 1994, Vitikainen 2007b, Ahti et al. 2012, Bergsten 2000

Peltigera neckeri Hepp ex Müll.Arg.

Peltigera polydactyloides auct.

Terricolous.

S Sk-TL

N Øf-Bu Te-Fi

F A-PS KP OP-KiL EnL InL

Holtan-Hartwig 1993, Vitikainen 1994, Vitikainen 2007b, Ahti et al. 2012

Peltigera neopolydactyla (Gyeln.) Gyeln.

Terricolous, especially among bryophytes in moist places.

S Sm Vg Hl-TL

N Øf-AA Ro-ST

F V-InL

Holtan-Hartwig 1993, Vitikainen 1994, Vitikainen 2007b, Ahti et al. 2012, Bergsten 2000

Peltigera occidentalis (E.Dahl) Kristinsson

Peltigera scabrosa var. *occidentalis* E.Dahl

On and among bryophytes on rocks and in subalpine and alpine heaths.

S Vsm Upl Dlr Mpd-Hrj ÅsL-TL

N VA

F A-InL

Dahl 1950, Kristinsson 1968, Vitikainen 1994, Vitikainen 2007b, Ahti et al. 2012

Peltigera polydactylon (Neck.) Hoffm.

Terricolous and on mossy rocks, on the basal parts of tree-trunks, etc.

S Sk-TL

N Øf-Fi

F A-OP Ks KiL EnL InL

Degelius 1944a, Degelius 1944c, Holtan-Hartwig 1993, Vitikainen 1994, Vitikainen 2007b, Ahti et al. 2012

Peltigera ponojensis Gyeln.

Peltigera rufescens f. *lacera* Gyeln.

On sandy soil in open areas.

S Sk-TL

N Ak Op VA Ho ST No Fi

F A-U St ES EP PS KP-InL

Øvstedal 1986, Carlin 1992, Vitikainen 1994, Vitikainen 2007b, Ahti et al. 2012

Peltigera praetextata (Flörke ex Sommerf.) Zopf

On rock, tree bark or on the ground, often covering bryophytes.

S Sk-TL

N Øf-Fi

F A-InL

Lindahl 1953, Vitikainen 1994, Vitikainen 2007b, Ahti et al. 2012

Peltigera retifoveata Vitik.

On terricolous bryophytes.

S (Upl)

N Op

F Ks

Vitikainen 1985a, Carlin 1992, Holtan-Hartwig 1993, Vitikainen 1994, Tønsberg et al. 1996, Vitikainen 2007b, Ahti et al. 2012

Peltigera rufescens (Weiss) Humb.

On calcareous soil, often in sun-exposed places.

S Sk-TL

N Øf-Fi

F A-InL

Lindahl 1953, Vitikainen 1994, Vitikainen 2007b, Ahti et al. 2012

Peltigera scabrosa Th.Fr.

Peltigera pulverulenta auct., non (Taylor) Nyl.

Terricolous among bryophytes and small shrubs in forests, on heaths, etc.

S Sm-TL

N Øf-Fi

F A-InL

Lindahl 1962, Holtan-Hartwig 1993, Vitikainen 1994, Vitikainen 2007b, Ahti et al. 2012

Peltigera scabrosella Holt.-Hartw.

On bryophytes on steep rock walls, in alpine regions also on terricolous bryophytes.

S Mpd Jmt ÅsL

N VA-Fi

F Ks SoL

Holtan-Hartwig 1988, Holtan-Hartwig 1993, Vitikainen 1994, Vitikainen 2007b, Svensson et al. 2011, Svensson et al. 2011, Ahti et al. 2012

Peltigera venosa (L.) Hoffm.

Peltidea venosa (L.) Ach.

Among bryophytes or on soil on moist and calcareous ground.

S (Sk) Sm-TL

N Ak-Bu Te AA Ro-Fi

F A-InL

Tønsberg & Holtan-Hartwig 1983, Vitikainen 1994, Vitikainen 2007b, Ahti et al. 2012

Peltigera wulingensis L.F.Han & S.Y.Guo

On calcareous rock outcrops by a river.

S -

N Op

F -

Haugan & Timdal 2019b

Peltula euploca (Ach.) Poelt

Heppia euploca (Ach.) Vain.

Heppia guepinii (Delise) Nyl.

On more or less wet siliceous rocks (seepages, rocks on the shore of lakes, etc.).

S (Bh) Dls-Nrk Srm Jmt

N (He) Op Bu Te Ro

F -

Wetmore 1971, Egea 1989, Tønsberg et al. 1996, Thor & Arvidsson 1999, Jørgensen 2007h, Ahti et al. 2012

Peltula placodizans (Zahlbr.) Wetmore

On vertical calcareous rock.

S -

N Op (Sør-Fron 2007 E. Timdal)

F -

Westberg et al. 2015a

**Perigrapha superveniens* (Nyl.) Hafellner
Metasphaeria superveniens (Nyl.) Sacc.

Not in F, N or S.

***Pertusaria alpina* Hepp ex Ahles**

Pertusaria laevigata (Th.Fr.) Anzi
Pertusaria leioplaca var. *laevigata* Th.Fr.

On smooth bark of deciduous trees.

S Vrm Dlr Hls Ång
N Ak He Bu-Te Ho NT-Fi
F A-ES PH-PK Kn PeP-KiL

Høeg 1923, Dibben 1980, Hanko 1983, Hermansson 2008a

Pertusaria areolata (Ach.) A.Massal.

Pertusaria chionea sensu DC.

Not in F, N or S.

***Pertusaria atopallida* Vain.**

On bark of *Picea* and *Betula*.

S -
N -
F Ks

Hanko 1983

***Pertusaria bryontha* (Ach.) Nyl.**

On bryophytes and on plant debris on calcareous ground.

S Mpd Hrij-TL
N He Ho MR ST No-Fi
F EnL

Dibben 1980, Hanko 1983

***Pertusaria carneopallida* (Nyl.) Anzi ex Nyl.**

Pertusaria carneolutea sensu Zahlbr.
Pertusaria protuberans (Sommerf. in Th.Fr.) Th.Fr.

On smooth bark of deciduous trees and shrubs.

S Ög-TL
N Ak-Bu Te-VA Ho MR-Fi
F A-KiL EnL InL

Høeg 1923, Dibben 1980, Hanko 1983

***Pertusaria chiodectonoides* Bagl. ex A.Massal.**

Pertusaria inquinata (Ach.) Th.Fr.
Pertusaria nolens Nyl.

On siliceous rock.

S Sk-Jmt Mpd
N He Op Ho SF ST No Fi
F V U St EP PH

Fries 1871, Dibben 1980, Hanko 1983

Pertusaria coccodes (Ach.) Nyl.

Pertusaria coccodes var. *phymatodes* (Ach.) Almb.

Pertusaria coccodes var. *verruculosa* Erichsen

Pertusaria glomerulata Nyl.

Pertusaria phymatodes (Ach.) Erichsen

Mainly on deciduous trees, rarely conifers, lignum or on rock.

S Sk-Hls Vb ÅsL LuL

N Øf-VA Ho-No Tr

F A-U St EH EP KP Kn Ks

Høeg 1923, Hanko 1983, Tønsberg 1992b, Elvebakk & Bjerke 2006

Pertusaria coriacea (Th.Fr.) Th.Fr.

Pertusaria obducens Nyl.

On bryophytes and on plant debris on the ground.

S TL

N Tr Fi

F EnL InL

Fries 1871, Dibben 1980, Hanko 1983, Svensson et al. 2020

Pertusaria coronata (Ach.) Th.Fr.

Pertusaria coronata var. *isidiifera* (Erichsen) Almb.

Pertusaria isidiifera Erichsen

Mainly on deciduous trees, rarely lignum or on rock.

S Sk-Ång Jmt LuL

N Ak Vf AA-Fi

F V

Høeg 1923, Christiansen et al. 1979, Hanko 1983, Tønsberg 1992b

Pertusaria degelii Erichsen

On shaded siliceous rock.

S Bh

N No

F -

Probably to *Ochrolechia*.

Degelius 1939a, Hanko 1983

***Pertusaria discoidea* subsp. *mammosoides* Erichsen**

Nom. ambig.

Erichsen 1940

Pertusaria flavicans Lamy

On vertical or overhanging, siliceous rock.

S Hl Bh Vg

N VA Ro-ST No

F -

Magnusson 1937, Laundon 1963, Dibben 1980, Hanko 1983, Botnen & Tønsberg 1988

Pertusaria flavida (DC.) J.R.Laundon

Pertusaria lutescens (Hoffm.) Lamy, nom. illeg.

Pertusaria pulvereosulphurata Harm., quoad specim. scand. (p.p. also used for *Loxospora* sp.)

Pertusaria solediana Nyl.

Pertusaria wulfenii var. *variolosa* Fr.

On bark of deciduous trees, rarely on conifers.

S Sk-Upl Dlr Gst Ång (Jmt?)

N Øf Ak Bu-ST

F A V

Høeg 1923, Laundon 1963, Hanko 1983, Tønsberg 1992b

Pertusaria flavocorallina Coppins & Muhr

Over bryophytes on rocks.

S Vrm

N Tr

F -

Gilbert & Coppins 1992, Tønsberg & Zhurbenko 2006

Pertusaria geminipara (Th.Fr.) C.Knight ex Brodo

Ochrolechia geminipara (Th.Fr.) Vain.

Lecanora leprothelia Nyl.

On bryophytes on soil or rock, rarely corticolous.

S Nrk-TL

N Ak-Bu Te Ho SF-Fi

F V-EH EP-InL

Verseghy 1962, Howard 1970, Brodo 1984b, Tønsberg 1992b

Pertusaria glomerata (Ach.) Schaer.

On decaying bryophytes, plant debris, soil, etc.

S Hrj-TL

N Ak Op Ho-ST No-Fi

F -

Fries 1871, Dibben 1980, Hanko 1983

Pertusaria hymenea (Ach.) Schaer.

Pertusaria wulfenii DC.

On deciduous trees, primarily *Fagus*, rarely on rock.

S Sk-Sm Bh Vg Ög

N Øf Ak Vf-MR

F -

Fries 1871, Høeg 1923, Almborn 1948, Dibben 1980, Hanko 1983

Pertusaria leioplaca DC.

Pertusaria creatomma (Norman) Zahlbr.

Porina leioplaca Ach., nom. illeg.

Pertusaria leucostoma A.Massal.

Pertusaria leucostoma var. *interrupta* Erichsen

Pertusaria leucostoma var. *pentaspora* Almb.

Sphaeria leucostoma Bernh., (1799) non Pers.: Fr. (1832)

On smooth bark of deciduous trees and shrubs, rarely on conifers.

S Sk-Nb

N Øf-Fi

F A-U St-PS KP Kn PeP Ks

Fries 1871, Høeg 1923, Dibben 1980, Hanko 1983

Pertusaria mccroryae C.R.Björk et al.

On wood of *Picea* log.

S -

N No (Grane 2010 Tønsberg)

F -

Tønsberg 2011

Pertusaria octomela (Norman) Erichsen

Pertusaria glomerata var. *octomela* Norman

Terricolous, on plant debris, bryophytes, soil, etc.

S TL

N Op Tr Fi

F Ks EnL

Fries 1871, Dibben 1980, Hanko 1983

Pertusaria oculata (Dicks.) Th.Fr.

On decaying bryophytes, plant debris, soil, rarely on rock or tree bark.

S Ög Vrm Dlr-TL

N He-Bu Te Ho-Fi

F PS Kn OP Ks SoL-InL

Fries 1871, Malme 1918b, Dibben 1980, Hanko 1983, Tønsberg 1992b

Pertusaria pertusa (Weigel) Tuck.

Fries 1871, Høeg 1923, Erichsen 1935, Malme 1937, Hanko 1983

Pertusaria pertusa (Weigel) Tuck. var. leiotera (Nyl.) Zahlbr.

Pertusaria colliculosa Körb.

Pertusaria leioterella Erichsen

On bark of deciduous trees.

S Sk Bh Vg

N No

F -

Erichsen 1935

Pertusaria pertusa (Weigel) Tuck. var. pertusa

Thelotrema chionea Ach.

Pertusaria chioneodes Erichsen

Pertusaria communis DC.

Lichen pertusus L.

Pertusaria rupestris quoad specim. scand.

Primarily on the bark of deciduous trees, rarely on conifers, lignum or on rock.

S Sk-Hls

N Øf Ak Vf-Fi

F A-U

Fries 1871, Høeg 1923, Malme 1937, Hanko 1983

Pertusaria poriniza Nyl.

On bark of *Alnus*.

S -

N -

F EH

Poelt 1969, Hanko 1983

Pertusaria porospora Norman ex Erichsen

On bark of *Salix glauca*.

S -

N Fi (Porsanger, Lakselv 1871 Norman)

F -

Probably conspecific with *Varicellaria rhodocarpa*.

Erichsen 1935, Jørgensen & Nordin 2009

Pertusaria pseudocorallina (Lilj.) Arnold

Pertusaria concreta Nyl.

Pertusaria westringii (Ach.) Leight.

On siliceous rock.

S Sk-Upl Hls

N Ro Ho

F -

Wirth & Llimona 1975, Klinkenberg 1979, Skjolddal 1982, Hanko 1983

Pertusaria pupillaris (Nyl.) Th.Fr.

Lecanora chloropolia auct.

Pertusaria chloropolia auct.

Biatora mahuensis Räsänen

Lecidea mahuensis (Räsänen) H.Magn.

Lecanora pupillaris Nyl.

On bark and lignum of deciduous trees and shrubs and on conifers.

S Sk-Sm Bh Vg Srm Vrm Upl Dlr Hls Ång Jmt

N Ak-Fi

F A-U St-ES PH-PK Kn OP

Fries 1871, Hanko 1983, Coppins & James 1989, Arup & Ekman 1991b, Tønsberg 1992b

Pertusaria raesaenenii Erichsen

On bark of deciduous trees.

S -

N -

F St EH PH KP PeP

Hanko 1983

Pertusaria sommerfeltii (Flörke ex Sommerf.) Fr.

Pertusaria melastoma Nyl.

Endocarpon sommerfeltii Sommerf.

Pertusaria sommerfeltii var. *juniperina* Vain.

Mainly on bark of trees and shrubs, rarely on lignum or bryophytes.

S Vrm Hls Hrj-LuL

N Op Bu Te Ho SF ST-Fi

F PH PK Kn PeP-InL

Fries 1871, Høeg 1923, Dibben 1980, Hanko 1983

Pertusaria stenhammarii Hellb.

On bark of deciduous trees, probably mostly on *Betula*, *Alnus* and *Sorbus*.

S Upl Jmt-ÅsL LuL

N -

F -

Fries 1871, Dibben 1980, Hanko 1983

Pertusaria tornensis H.Magn.

On calcareous rocks.

S TL

N -

F -

Magnusson 1952a, Hanko 1983

Pertusaria trochiscea Norman

Terricolous, on bryophytes, plant debris, soil, etc.

S TL

N ST Tr Fi

F -

Fries 1871, Dibben 1980, Hanko 1983

Petractis clausa (Hoffm.) Kremp.

Petractis exanthematica (Sm.) Fr.

On calcareous rocks.

S Öl Gtl

N Bu Ho NT

F Ks

Vězda 1965a, Thor & Arvidsson 1999, Pykälä 2013

* ***Pezizella collematis* (Boud.) Keissl.**

On Collema.

S LyL (Stensele 1944 A.H. Magnusson)

N -

F -

Swedish specimen growing on "algae on the ground with *Catillaria capitulata*".

Magnusson 1946

* ***Pezizella epithallina* (W. Phillips & Plowr.) Sacc.**

On *Peltigera lepidophora*, *P. membranacea*, *P. rufescens*, *Peltigera* sp. (thallus).

S Vg Upl Jmt TL

N No Fi

F V EH EnL

Hawksworth 1980b, Rambold & Triebel 1990, Puolasmaa et al. 2012, Suija & Jüriado 2020

* ***Phacographa glaucomaria* (Nyl.) Hafellner**

Lecidea glaucomaria Nyl., non *Arthonia glaucomaria* Nyl.

Opegrapha glaucomaria (Nyl.) Källsten

Leciographa maculans Arnold

Opegrapha maculans (Arnold) Hafellner

On *Lecanora rupicola* (thallus).

S Sk-Upl Hvj

N -

F -

Santesson 1986, Hafellner 1994c, Hafellner 2009

* ***Phacographa protoparmeliae* Hafellner**

On *Protoparmelia badia*.

S TL

N ST Tr

F -

Hafellner 2009, Westberg et al. 2015a, Westberg et al. 2016, Frisch et al. 2020a

* ***Phacographa zwackhii* (A.Massal ex Zwackh) Hafellner**

Arthonia granulosa Graewe ex Th.Fr., non Fée

Opegrapha nothella Nyl.

Dactylospora zwackhii (Zwackh) Arnold

Leciographa zwackhii A.Massal. ex Zwackh

Opegrapha zwackhii (A.Massal. ex Zwackh) Källsten

On *Phlyctis argena* (thallus) on deciduous trees.

S Bl Bh Vg Srm Upl Hls

N Ak ST NT

F -

Fries 1863, Hafellner 1994b, Hafellner 2009, Frisch et al. 2020a

***Phacopsis cephalodioides (Nyl.) Triebel & Rambold**

Agyrium cephalodioides Nyl.

On Hypogymnia physodes, H. tubulosa (thallus).

S Hls LuL

N No NT

F InL

Triebel & Rambold 1988, Triebel et al. 1995, von Hirschheydt et al. 2021

***Phacopsis huuskonenii Räsänen**

Protousnea huuskonenii (Räsänen) Divakar et al.

On Bryoria capillaris, B. fuscescens, B. glabra (thallus).

S Upl Dlr Mpd Jmt Vb LyL LuL

N Op NT

F EH PH-KP

Santesson 1986, Hafellner 1987a, Triebel & Rambold 1988, Santesson 1988

***Phacopsis vulpina Tul.**

On Letharia vulpina (thallus).

S Hls Dlr Hrj Jmt

N He

F -

Ahlner 1948, Hafellner 1987a, Triebel & Rambold 1988, Santesson 1988

***Phacothecium varium (Tul.) Trevis.**

Lecidea physciaria Nyl.

Leciographa physciaria (Nyl.) H.Olivier

Opegrapha physciaria (Nyl.) D.Hawksw. & Coppins

Arthonia varia (Tul.) Jatta

Phacopsis varia Tul.

Mycobilimbia xanthoriicola Räsänen

On Xanthoria parietina (thallus).

S Sk Gtl Vg NrK Upl

N -

F A

Santesson 1949, Santesson 1960, Coppins et al. 1992, Hafellner 2009

+Phaeocalicium betulinum (Nyl.) Tibell

Calicium pallescens f. *betulinum* Nyl.

On bark of Betula.

S Jmt LuL

N -

F EH (1866, 1872).

Tibell 1996b, Tibell 1999a, Berglund et al. 2004

+Phaeocalicium boreale Tibell

On thin twigs of *Alnus* and *Salix*, on trunks of *Betula* and on *Ribes spicatum*.

S Jmt LuL TL

N Fi

F EH

Tibell 1996b, Tibell 1996a, Tibell 1999a, Svensson et al. 2011

+Phaeocalicium compressulum (Szatala) A.F.W.Schmidt

On thin twigs of *Betula pubescens*.

S Hrtj Jmt LyL

N NT Fi

F -

Berglund et al. 2004

+Phaeocalicium flabelliforme Tibell

On decaying branches of *Betula*.

S Vrm Vsm Dlr Jmt Nb ÅsL

N He

F -

Tibell 1996b, Tibell 1999a, Berglund et al. 2004, Hermansson 2005a

+Phaeocalicium interruptum (Nyl.) Tibell

Calicium pallescens var. *interruptum* Nyl.

On twigs of *Salix* and *Populus tremula*.

S Vrm Upl Dlr Gst Hls Ång Jmt ÅsL LuL

N He Fi

F PeP-KiL

Tibell 1996b, Tibell 1999a, Berglund et al. 2004

+Phaeocalicium populneum (Brond. ex Duby) A.F.W.Schmidt

Calicium populneum Brond. ex Duby

Embolidium populneum (Brond. ex Duby) Vain.

Saprophytic on thin, preferably decaying twigs of *Populus*.

S Gtl Vg Nrk-Mpd Hrtj-Vb ÅsL LuL TL

N Ho-Fi

F V U ES EP Ks KiL

Tibell 1973, Karström & Thor 1991, Tibell 1996b, Tibell 1996a, Thor & Arvidsson 1999, Tibell 1999a

+Phaeocalicium praecedens (Nyl.) A.F.W.Schmidt

Calicium praecedens Nyl.

Mycocalicium praecedens (Nyl.) Vain.

Saprophytic on thin twigs of *Populus tremula*.

S Sm Bh-Vg Nrk-Hls Vb Nb LuL

N Øf Ak MR ST

F V U St-ES PH

Thor & Arvidsson 1999, Tibell 1999a

+Phaeocalicium tremulicola (Norrl. ex Nyl.) Tibell

Stenocybe tremulicola Norrl. ex Nyl.

On twigs of *Populus tremula*.

S Dlr

N -

F EH PeP-KiL

Earlier reports from N and S refer to *Phaeocalicium interruptum*.

Tibell 1996b, Tibell 1999a, Berglund et al. 2004

Phaeophyscia ciliata (Hoffm.) Moberg

Physcia ciliata (Hoffm.) Du Rietz

Physcia norrlinii Vain.

Physcia obscura auct.

Lichen ulothrix Ach., non Hoffman

On deciduous trees, especially *Populus tremula*.

S Sm-ÅsL Nb

N AA-Fi

F A-SoL InL

Moberg 1977, Moberg 2002f

Phaeophyscia constipata (Norrl. & Nyl.) Moberg

Physcia constipata Norrl. & Nyl.

Physcia pulverulenta var. *tenuis* (Körb.) Th.Fr.

Among bryophytes on calcareous ground, mainly in dry places.

S Nrk Vsm TL

N Ak He Op Bu Tr Fi

F Ks EnL InL

Hakulinen 1966, Moberg 1977, Timdal 1982, Thor & Arvidsson 1999, Moberg 2002f

Phaeophyscia endococcina (Körb.) Moberg

Physcia endococcina (Körb.) Th.Fr.

Physcia lithotea sensu Räsänen

Physcia lithotodes Nyl.

On rocks, occasionally on bark or wood.

S Sm-TL

N Øf-Bu Te AA Ho ST No-Fi

F A-PK Kn-KiL EnL InL

Moberg 1977, Moberg 2002f

Phaeophyscia endophoenicea (Harm.) Moberg

Physcia endophoenicea (Harm.) Sántha

Physcia ocellata Erichsen

On bark of deciduous trees and shrubs, rarely on rock.

S Sk-Upl

N Ak Op Te-Ho MR ST

F A V St

Moberg 1977, Arup & Ekman 1991b, Arup et al. 1997, Thor & Arvidsson 1999, Moberg 2002f, Puolasmaa et al. 2008

Phaeophyscia kairamoi (Vain.) Moberg

Physcia constipata subsp. *pityrophylla* (Nyl.) Räsänen

Physcia kairamoi Vain.

On calcareous schistose rocks.

S Hrj Vb ÅsL

N He-Bu ST

F PK

Moberg 1969, Moberg 1974, Moberg 1977, Moberg 2002f

Phaeophyscia nigricans (Flörke) Moberg

Physcia nigricans (Flörke) Stizenb.

Physcia parvula Vain.

Physcia sciastrella (Nyl.) Harm.

Physcia tremulicola Nyl.

Physcia tremulicola subsp. *leptothallina* Vain.

At the base of deciduous trees in more or less exposed and dust-enriched sites, also on calcareous rock.

S Sk-LyL

N Øf-AA MR-NT Tr Fi

F A-Ks

Moberg 1977, Timdal 1982, Timdal 1987a, Moberg 2002f

Phaeophyscia orbicularis (Neck.) Moberg

Physcia cycloselis (Ach.) Vain.

Physcia hueana (Harm.) Räsänen

Physcia obscura (Ehrh. ex Humb.) Fűrnr.

Physcia orbicularis (Neck.) Poetsch

Physcia virella (Ach.) Flagey

On more or less nutrient-rich deciduous trees, sometimes on rock (especially in northern coastal areas), rarely on lignum.

S Sk-TL

N Øf-Fi

F A-SoL

Moberg 1977, Moberg 2002f

Phaeophyscia sciastra (Ach.) Moberg

Physcia sciastra (Ach.) Du Rietz

On acidic rocks, often manured by birds, rarely on lignum.

S Sk-TL

N Øf-AA Ro-Fi

F A-InL

Moberg 1977, Moberg 2002f

Phaeorrhiza nimbosa (Fr.) H.Mayrhofer & Poelt

Rinodina nimbosa (Fr.) Th.Fr.

Rinodina phaeocarpa, sensu Vain., non *Lecidea phaeocarpa* Sommerf. fide Lyngé

On soil and decaying bryophytes on calcareous ground.

S Dlr Hrj-TL

N He Op Ho MR ST No-Fi

F EnL

Fries 1871, Magnusson 1947, Mayrhofer & Poelt 1978, Huneck et al. 1989, Mayrhofer & Moberg 2002b, Hermansson 2008a

Phaeorrhiza sareptana (Tomin) H.Mayrhofer & Poelt

Rinodina sareptana (Tomin) H.Magn.

Phaeorrhiza sareptana (Tomin) H.Mayrhofer & Poelt var. sphaerocarpa (Th.Fr.) H.Mayrhofer & Poelt

Buellia dovrensis H.Magn.

Rinodina nimbosa var. *sphaerocarpa* Th.Fr.

On calcareous soil.

S -

N He Op

F -

Fries 1871, Magnusson 1947, Poelt & Buschardt 1978

***Phaeoseptoria peltigerae Punithal. & Spooner**

On *Peltigera horizontalis* (thallus).

S -

N Ak (Eidsvoll 1994 Spooner)

F -

Punithalingam & Spooner 1997, Diederich et al. 2018

***Phaeospora arctica Horáková & Alstrup**

On *Arctoparmelia centrifuga* (thallus).

S PL (Arjeplog 2003 Ihlen)

N -

F -

Ihlen & Wedin 2005

***Phaeospora catolechiai Zopf**

On *Catolechia wahlenbergii* (thallus).

S Hrj Jmt

N Op Bu Ho-ST No Fi

F -

Zopf 1898

***Phaeospora parasitica (Lönnr.) Arnold**

On Rhizocarpon umbilicatum, R. petraeum (thallus).

S Öl Gtl Upl Hrj Jmt TL
N Ak? Ho Tr
F V

Lönnroth 1858, Zopf 1898, Magnusson 1952a, Degelius 1982, Santesson 1986

***Phaeospora perminuta (Nyl.) Vain.**

Endococcus perminutus Nyl.

Unknown application ("holotype" studied by R. Sant. in 1963, without the fungus).

***Phaeospora rimosicola (Leight. ex Mudd) Hepp ex Stein.**

On Rhizocarpon umbilicatum (thallus).

S Ög? Hrj Jmt
N Ak Op No
F Kn

Zopf 1898, Hawksworth 1983a, Sérusiaux et al. 1999, Frisch et al. 2020a

***Pharcidia dealbans sensu Keissler**

A lichenicolous fungus on Dermatocarpon sp., collected by Th. Fries in N Fi.
von Keissler 1923

Phlyctis agelaea (Ach.) Flot.

On deciduous trees and shrubs, rarely on rock.

S Sk-Hls
N Øf Ak Bu-VA Ho ST NT
F A-U EH

Due to a misleading statement in Th. Fries (1871, p. 324, Obs. 1) some authors (e.g. Hellbom 1884, p. 65), have used the names *P. agelaea* and *P. argena* in a reverse sense.

Fries 1871, Botnen 1984, Arup et al. 1997, Thor & Arvidsson 1999

Phlyctis argena (Spreng.) Flot.

Phlyctis erythrosora Erichsen

Phlyctis perptyrea Erichsen

On deciduous trees and shrubs, primarily on smooth bark, rarely on rock or lignum.

S Sk-Ång ÅsL
N Øf-Tr
F A-KiL

Due to a misleading statement in Th. Fries (1871, p. 324, Obs. 1) some authors (e.g. Hellbom 1884, p. 65), have used the names *P. agelaea* and *P. argena* in a reverse sense.

Magnusson 1942b, Tønberg 1992b

***Phoma epiparmelia Vouaux**

On Peltigera aphthosa, *P. leucophlebia* (thallus).

S -
N -
F A U Ks

Puolasmaa et al. 2012

***Phoma epiphyscia Vouaux**

On *Xanthoria parietina* (apothecia).

S Vg Ög

N -

F -

von Keissler 1930, Hawksworth 1981b

***Phoma lecanorina Diederich**

On *Lecanora expallens*.

S -

N -

F V

Diederich 1986

***Phoma maculiformans Ihlen**

On *Dibaeis baecomycetes*, *Baecomycetes rufus* (thallus).

S -

N ST

F -

Ihlen 1998

***Phoma peltigerae (P.Karst.) D.Hawksw.**

Phyllosticta peltigerae P.Karst.

On *Peltigera aphthosa*, *P. canina*, *P. didactyla*, *P. leucophlebia*, *P. neckeri*, *P. polydactylon*, *P. praetextata*, *P. rufescens*, (thallus).

S Upl TL

N SF Tr

F A-PK PeP Ks InL

Alstrup et al. 2008, Puolasmaa et al. 2012

Phylliscum demangeonii (Moug. & Mont.) Nyl.

Phylliscum silesiacum B. Stein

On more or less wet acidic rocks (seepages, etc.).

S Sk-Vb ÅsL LyL LuL TL

N Øf Ak Bu-Te Ho SF ST No-Fi

F A-U EH PS PK Ks KiL EnL InL

Henssen 1963c, Yoshimura 1964, Jørgensen 2007e, Ahti et al. 2012

***Physalospora galatiniae Vouaux**

Physalospora galactinae, orth. var.

The report of this species (von Keissler 1923) refers to *Sagediopsis campsteriana*.

von Keissler 1923

Physcia adscendens H.Olivier

On deciduous trees, rarely on conifers, lignum or stone.

S Sk-ÅsL Nb

N Ro Te-Fi

F A-SoL

Moberg 1977, Moberg 2002g

Physcia aipolia (Ehrh. ex Humb.) Fűrnr.

Physcia aipolia f. *verruculosa* Räsänen

On deciduous trees, especially *Populus tremula*.

S Sk-TL

N Øf-Fi

F A-InL

Moberg 1977, Alstrup & Hawksworth 1990

Physcia alnophila (Vain.) Loht. et al.

Physcia aipolia (Ehrh. ex Humb.) Fűrnr. var. *alnophila* (Vain.) Lyngø

On deciduous trees, especially *Alnus incana* and *Salix* spp.

S Ög Upl Dlr Hls-TL

N Op No Fi

F EP-InL

Moberg 1977, Moberg 2002g

Physcia caesia (Hoffm.) Fűrnr.

Physcia caesiella (B.de Lesd.) Suza

Physcia ventosa (Lyngø) Sántha

On rocks (acidic as well as calcareous), rarely on lignum or bark.

S Sk-TL

N Øf-Fi

F A-InL

Moberg 1977, Moberg 2002g

Physcia dimidiata (Arnold) Nyl.

Physcia dimidiata var. *ornata* (Nádv.) Moberg

On rocks.

S -

N He-Bu Te SF ST NT Tr Fi

F -

Moberg 1971, Moberg 1977, Moberg 2002g

Physcia dubia (Hoffm.) Lettau

Physcia intermedia Vain.

Physcia lyngøi Nádv.

Physcia stellaris subsp. *caesitia* Nyl.

Physcia teretiuscula (Ach.) Lyngø

Physcia teretiuscula f. *corticola* Koskinen

Physcia wahlenbergii Lyngø

On various types of rocks (especially on rocks manured by birds), also on trees, lignum, tiles, etc.

S Sk-TL

N Øf-Fi

F A-InL

Moberg 1977, Moberg 2002g

Physcia leptalea (Ach.) DC.

Physcia semipinnata (J.F.Gmel.) Moberg, nom. rej.

On various deciduous trees.

S Sk-Upl

N Øf Vf VA-Ho

F A-U

Moberg 1977, Tønsberg et al. 1996, Thor & Arvidsson 1999, Moberg 2002g

Physcia magnussonii Frey

Physcia aipolia var. *subincisa* (Th.Fr.) Lynge.

Physcia albinea in Magnusson 1957, non (Ach.) Malbr.

Physcia stellaris var. *subincisa* Th.Fr.

On acidic rocks, especially in steep south-exposed slopes.

S Ög Upl Dlr Jmt

N Op SF-NT

F -

Frey 1963, Semander-Du Rietz 1969, Wirth 1972, Jørgensen & Øvstedal 1975, Moberg 1977, Tønsberg et al. 1996, Thor & Arvidsson 1999, Moberg 2002g

Physcia phaea (Tuck.) J.W.Thomson

Physcia melops Dufour ex Nyl.

On acidic rocks, especially those slightly manured by birds.

S Vg Ög Jmt ÅsL LuL

N Ak-Bu MR ST

F EH PS PeP

Thomson 1963, Moberg 1977, Timdal 1982, Thor & Arvidsson 1999, Moberg 2002g

Physcia stellaris (L.) Nyl.

Physcia stellaris var. *angustiloba* Räsänen

On various deciduous trees, especially *Populus tremula*.

S Sk-TL

N Øf-Fi

F A-InL

Moberg 1977, Moberg 2002g

Physcia subalbinea Nyl.

Physcia wainioi Räsänen

On rocks, rarely on wood or bark.

S Sk Sm Hl Bh Vg Ög Srm Vrm Upl Mpd Ång Jmt

N Op Bu Ro Ho SF MR No Fi

F A U PS Ks

Lohtander et al. 2009

Physcia tenella (Scop.) DC.

Physcia hispida auct.

Physcia marina (E.Nyl.) Lyngé, non (Wedd.) Arnold

Physcia stellaris var. *marina* E.Nyl.

Physcia stellaris var. *subobscura* Nyl.

Physcia subobscura (Nyl.) Nyl.

Physcia tenella var. *marina* (E.Nyl.) Lyngé

On trunks and branches of trees and shrubs, on rock, mainly on seashores, rarely on wood.

S Sk-LyL

N Øf-Fi

F A-Ks

Specimens growing in maritime habitats have often been separated as *v. marina*.

Moberg 1977, Moberg 2002g

Physcia tribacia (Ach.) Nyl.

Not in F, N or S.

Physconia detersa (Nyl.) Poelt

Physcia detersa (Nyl.) Nyl.

Physcia leucoleiptes (Tuck.) Lettau

On mossy rocks in steep slopes and on tree-trunks.

S Vrm Hrij-TL

N Ak-Bu Tr Fi

F U-PK Kn PeP Ks SoL-InL

Moberg 1977, Moberg 2002h

Physconia distorta (With.) J.R.Laundon

Physconia pulverulacea Moberg

Physcia pulverulenta ("Hoffm.") Fürnr.

Physconia pulverulenta ("Hoffm.") Poelt

On nutrient-rich bark of deciduous trees, in the north also on mossy rocks.

S Sk-LyL

N Øf-Tr

F A-Ks

Moberg 1977, Moberg 2002h

Physconia enteroxantha (Nyl.) Poelt

Physcia detersella Nádv.

Physcia enteroxantha Nyl.

Physcia subdetersa Nyl.

On nutrient-rich bark of deciduous trees, in the north also on mossy rocks.

S Sk-TL

N Øf-SF ST-Fi

F A-KP OP-Ks SoL-InL

Moberg 1977, Moberg 2002h

Physconia grisea (Lam.) Poelt

Parmelia farrea Ach.

Physcia grisea (Lam.) Zahlbr.

On nutrient-rich bark of deciduous trees.

S Sk-Upl

N Ak VA

F -

Moberg 1977, Moberg 2002h

Physconia muscigena (Ach.) Poelt

Physcia muscigena (Ach.) Nyl.

Among bryophytes on the ground or on rocks, often on calcareous ground.

S Öl Gtl Dlr-TL

N Ak-Bu Ho-Fi

F (A?) PS PK Kn PeP Ks SoL-InL

Moberg 1977, Moberg 2002h

Physconia perisidiosa (Erichsen) Moberg

Physcia farrea auct.

Physconia farrea sensu Poelt.

Physcia lithotea f. *perisidiosa* Räsänen

Physcia perisidiosa Erichsen

On nutrient-rich bark of deciduous trees, in the north also on mossy rocks.

S Sk-TL

N Øf-AA SF ST No-Fi

F A-Ks InL

Moberg 1977, Moberg 2002h

Piccolia ochrophora (Nyl.) Hafellner

Biatorella ochrophora (Nyl.) Arnold

Lecidea ochrophora Nyl.

Strangospora ochrophora (Nyl.) R.A.Anderson

On soft bark of deciduous trees and shrubs.

S Sk-Hls TL

N Ak Vf Te AA SF MR

F EH EnL

Fries 1874, Magnusson 1935c, Cramer 1975, Poelt & Vězda 1977, Bratli 1998, Hafellner 2004b, Nordén & Jordal 2016

Pilophorus cereolus (Ach.) Hellb.

Stereocaulon cereolinum Ach.

Pilophorus robustus subsp. *cereolus* (Ach.) Th.Fr.

On often wet rocks, rarely on sandy soil.

S Dls-TL

N Ak Op-Vf Ho SF ST-Fi

F V St EH EP-PK Kn-InL

Hellbom 1871a, Ammann & Ammann 1969, Jahns 1970, Jahns 1981, Ahti & Stenroos 2013

Pilophorus dovrensis (Nyl.) Timdal et al.

Lecidea dovrensis Nyl.

Lecidea pallida Th.Fr.

Pilophorus pallidus (Th.Fr.) Timdal

Saxicolous and terricolous.

S Ång Jmt ÅsL-TL

N Op ST NT Fi

F EnL

Timdal 1988, Hertel & Rambold 1988b, Hertel 1991, Ahti & Stenroos 2013

Pilophorus robustus Th.Fr.

On rock or gravelly soil, preferably on more or less wet schist.

S Hrj Jmt ÅsL TL

N He-Bu ST-Fi

F Ks EnL

Krog 1968, Ammann & Ammann 1969, Jahns 1970, Jahns 1981, Thor & Arvidsson 1999, Ahti & Stenroos 2013

Pilophorus strumaticus Nyl. ex Cromb.

Pilophorus cereolus f. *distans* (Hulting) H.Magn.

Pilophorus distans (Hulting) H.Magn.

Pilophorus robustus f. *distans* Hulting

On often wet rocks.

S Sm (Hl Bh) Dls Vg Jmt

N Ak Te-No (western)

F -

Magnusson 1955, Ammann & Ammann 1969, Jahns 1970, Jahns 1981, Arup et al. 1997, Thor & Arvidsson 1999, Westberg et al. 2011d, Ahti & Stenroos 2013

Placidiopsis custnani (A.Massal.) Körber

Placidiopsis cartilaginea (Nyl.) Vain.

Endocarpon cinereum var. *cartilagineum* Nyl.

On calcareous soil among bryophytes.

S Gtl

N -

F A (1853)

Breuss 1996a, Prieto et al. 2010, Alstrup 2014

Placidiopsis pseudocinerea Breuss

Placidiopsis cervinula auct. scand., non (Nyl.) Vain.

On more or less calcareous sandy soil on rocks.

S Hrj TL

N Op Ho ST No Tr

F -

Breuss 1983, Westberg et al. 2016

Placidium lachneum (Ach.) B.de Lesd.

Catapyrenium lachneum (Ach.) R.Sant.

Dermatocarpon lachneum (Ach.) A.L.Sm.

Dermatocarpon rufescens auct., non (Ach.) Th.Fr.

Dermatocarpon trapeziforme auct.

On calcareous soil.

Magnusson 1942b, Magnusson 1945b, Breuss 1990a, Breuss 1990b, Breuss 1995, Breuss 1996b

Placidium lachneum (Ach.) B.de Lesd. var. lachneum

On calcareous soil.

S Ög-TL

N Øf-AA Ro-SF ST-Fi

F Ks EnL InL

Placidium lachneum (Ach.) B.de Lesd. var. oleosum Breuss

On calcareous soil.

S TL

N Ro Ho No Tr

F -

Magnusson 1942b, Magnusson 1945b, Breuss 1990a, Breuss 1990b, Breuss 1995, Breuss 1996b

Placidium michelii A.Massal.

Catapyrenium michelii (A.Massal.) R.Sant.

Dermatocarpon michelii (A.Massal.) Zwackh

Terricolous.

S Öl Sm-Srm

N -

F -

Magnusson 1955, Breuss 1990a, Breuss 1996b, Westberg et al. 2015b

Placidium norvegicum (Breuss) Breuss

Catapyrenium norvegicum Breuss

On soil and bryophytes.

S Hrtj Jmt

N Tr

F EnL

Breuss & Hansen 1988, Breuss 1990a, Breuss 1996b

Placidium pilosellum (Breuss) Breuss

Catapyrenium pilosellum Breuss

On soil and plant debris often among bryophytes.

S Öl Gtl Vg

N Ak

F -

Breuss 1990a, Breuss 1995, Breuss 1996b, Westberg et al. 2015b

Placidium rufescens (Ach.) A.Massal.

Catapyrenium rufescens (Ach.) Breuss

On soil or calcareous rocks.

S Bh Srm Upl TL

N Ak Op-AA Ro Ho ST-No

F V U Ks EnL

Poelt & Mayrhofer 1985, Breuss 1990a, Breuss 1996b

Placidium squamulosum (Ach.) Breuss

Dermatocarpon hepaticum auct.

Dermatocarpella squamulosa (Ach.) Harada

Catapyrenium squamulosum (Ach.) Breuss

On calcareous soil.

S Sk Öl-Upl Jmt LuL

N Ak Ro-SF ST No

F V InL

Poelt & Mayrhofer 1985, Breuss 1990a, Harada 1993, Breuss 1995, Breuss 1996b

Placocarpus schaeferi (Fr.) Breuss

Catapyrenium schaeferi (Fr.) R.Sant.

Verrucaria schaeferi (Fr.) Nyl.

Not in F, N or S.

Placopsis gelida (L.) Linds.

Lecanora gelida (L.) Ach.

Lecanora gelida f. *neglecta* Degel.

On acidic or slightly calcareous rocks, often in somewhat humid places.

S Dlr Hrj Jmt LyL-TL

N He-Bu Te Ro-Fi

F Ks EnL

Almborn 1966, Moberg & Carlin 1996

Placopsis lambii Hertel & V.Wirth

On acidic or slightly calcareous rocks.

S Sk Sm-Vg Vrm Upl Jmt TL

N He-Bu VA-Fi

F EnL

Wirth 1987, Jørgensen 1996, Moberg & Carlin 1996

Placopyrenium canellum (Nyl.) Gueidan & Cl.Roux

Verrucaria aspiciliae Zehetl., non (J.Lahm) Stizenb. nec Vain.

Verrucaria aspiciliicola R.Sant.

Verrucaria canella Nyl.

On *Aspicilia* calcarea.

S Öl Gtl Ög

N -

F -

Zehetleitner 1978, Hawksworth 1986a, Orange 2004a, Navarro-Rosinés et al. 2007

Placopyrenium cinereoatratum (Degel.) Orange

Verrucaria cinereoatra Zschacke, in Magnusson non Hoffm.

Verrucaria cinereoatrata Degel.

On siliceous rocks in wet localities, sometimes parasitic on *Staurothele fissa*.

S Öl Bh Dls Vg Ög

N No

F V

Magnusson 1930a, Degelius 1982, Orange 2009

Placopyrenium formosum Orange

On siliceous rocks along streams, initially parasitic on *Aspicilia aquatica*.

S -

N -

F V

Orange 2009

Placopyrenium fuscillum (Turner) Gueidan & Cl.Roux

Verrucaria fuscilla (Turner) Winch

Verrucaria griseoatra (Kremp.) Servít, uncertain synonym

On calcareous rocks.

S Öl Gtl Bh Dls Vg Ög Srm Vsm

N Ak Ho No

F V U

Degelius 1955b, Rodenberg 1977, Fröberg 1989, Orange 2004a, Navarro-Rosinés et al. 2007

Placopyrenium trachyticum (Hazsl.) Breuss

Catapyrenium trachyticum (Hazsl) R.Sant.

Dermatocarpon trachyticum (Hazsl.) Vain.

Endopyrenium trachyticum Hazsl.

Placidiopsis trachyticum (Hazsl.) Servít

On calcareous or calcareous rocks.

S Vg Ög Srm

N Ho No

F -

Zschacke 1933a, Magnusson 1934, Degelius 1942, Degelius 1944c, Nimis & Poelt 1987

Placynthiella dasaea (Stirt.) Tønsberg

Lecidea dasaea Stirt.

On acidic bark and lignum of deciduous trees and conifers.

S Hl-Vg Vrm Upl Dlr TL

N Ak-Fi

F V U St EH EP KP Kn

Tønsberg 1992b

Placynthiella hyporhoda (Th.Fr.) Coppins & P.James

Placynthiella arenicola Elenkin

Lecidea hyporhoda Th.Fr.

Saccomorpha hyporhoda (Th.Fr.) Clauzade & Cl.Roux

Lecidea uliginosa f. *hyporhoda* (Th.Fr.) Hedl.

On naked soil.

S Gst Hls Jmt

N Fi

F EH

Fries 1874, Coppins & James 1984

Placynthiella icmalea (Ach.) Coppins & P.James

Lecidea fuliginea Ach.

Lecidea icmalea Ach.

Saccomorpha icmalea (Ach.) Clauzade & Cl.Roux

Lemmopsis suomiensis Räsänen

On naked soil, lignum or acidic bark.

S Sk-TL

N Øf Ak Op-Vf AA Ro-Tr

F A-Ks SoL InL

Coppins & James 1984, Muhr 1987a, Tønsberg 1992b

Placynthiella oligotropha (J.R.Laundon) Coppins & P.James

Lecidea oligotropha J.R.Laundon

Saccomorpha oligotropha (J.R.Laundon) Clauzade & Cl.Roux

Lecidea subuliginosa Nyl., uncertain synonym

Lecidea uliginosa, sensu Vain., non (Schrad.) Ach.

Lecidea uliginosa var. *verruculosa* Hedl.

Terricolous, on soil rich in humus, on peat, etc.

S Sk-TL

N Ak-Op Vf ST NT Fi

F A-ES PH-OP Ks SoL InL

Fries 1874, Vainio 1934, Laundon 1960

Placynthiella uliginosa (Schrad.) Coppins & P.James

Stereonema chthonoblastes A.Braun ex Kütz.

Lecidea humosa (Hoffm.) Leight.

Biatora uliginosa (Schrad.) Körb.

Lecidea uliginosa (Schrad.) Ach., non sensu Vain.

Saccomorpha uliginosa (Schrad.) Hafellner

On decaying wood, plant debris, soil, sand, etc.

S Sk-TL

N Øf Ak Bu Vf Ro? Ho SF ST-Fi

F A-InL

Fries 1874, Vainio 1934, Hafellner 1984

Placynthium asperellum (Ach.) Trevis.

Pterygium asperellum (Ach.) Nyl.

Placynthium aspratite (Ach.) Henssen

Catillaria subalpina Th.Fr.

Placynthium vrangianum Gyeln.

On more or less moist, preferably calcareous rocks.

S Vg-TL

N Ak He Bu Ho MR ST Tr Fi

F V EH PS KP Ks EnL

Lyngé 1928, Lyngé 1928, Henssen 1963b, Jørgensen 1978, Jørgensen 2007i, Ahti et al. 2012

Placynthium caesium (Fr.) Jatta

Collolechia caesia (Fr.) A.Massal.

Placynthium caesitium (Nyl.) Hue

Placynthium garovaglii auct.

On overhanging calcareous rock in shade.

S Gtl

N -

F -

Jørgensen 2007i, Ahti et al. 2012, Košuthová et al. 2016

Placynthium dolichoterum (Nyl.) Trevis.

Placynthium pluriseptatum (Arnold) Arnold

On crystalline, periodically moist schist.

S Hrtj LyL LuL TL

N ST No Tr Fi

F EnL

Degelius 1943a, Jørgensen 2007i, Ahti et al. 2012, Pykälä 2017

Placynthium flabellum (Tuck.) Zahlbr.

Anziella adglutinata (Anzi) Gyeln.

Placynthium adglutinatum (Anzi) Trevis.

On moist siliceous rocks (inundation zones, seepages, etc.).

S Sm-LuL

N Ak Bu Ro-ST No-Fi

F V EH PS PeP Ks EnL InL

Henssen 1963b, Jørgensen 2007i, Ahti et al. 2012

Placynthium garovaglii (A.Massal.) Malme

Not in F, N or S.

Placynthium lismoreense (Cromb.) Vain.

On calcareous rocks.

S -

N Ho No

F -

Reports from Sweden refer to *P. tremniacum* (Öl, Gtl) or *P. asperellum* (non-maritime localities).

Jørgensen 2007i, Ahti et al. 2012

Placynthium nigrum (Huds.) Gray

Placynthium corallinoides (Flörke) Jatta

Spilonema proboscideum Nyl.

Placynthium siliceum Gyeln.

On calcareous rocks.

S Sk-TL

N Ak Bu Ro Ho MR-Fi

F A-U EH ES PS PK Kn-Ks SoL-InL

Degelius 1943a, Jørgensen 2007i, Ahti et al. 2012

Placynthium pannariellum (Nyl.) H.Magn.

Pterygium pannariellum Nyl.

On sometimes submerged rocks by streams, lakes, etc.

S Sm-TL

N Øf Ak Op AA Ro Ho MR ST NT No Fi

F St-KP PeP Ks KiL EnL InL

Jørgensen 2007i, Ahti et al. 2012

Placynthium pulvinatum Øvst.

On moist calcareous sand and gravel.

S TL

N Tr

F EnL

Incorrectly reported from No in Jørgensen (2007i).

Jørgensen 2007i, Ahti et al. 2012, Westberg et al. 2016, Pykälä 2018

Placynthium rosulans (Th.Fr.) Zahlbr.

Placynthium pannariellum var. *rosulans* (Th.Fr.) Degel.

On moist rocks (in inundation zones, etc.).

S HI Vg-TL

N Øf Ak Op Bu Ho MR ST No Tr Fi

F V U St EH PS KP PeP Ks SoL EnL InL

Degelius 1943a, Jørgensen 2007i, Ahti et al. 2012

Placynthium rudetum (Ach.) Zahlbr.

Lecidea rudeta Ach.

Lecothecium rudetum (Ach.) Blom. & Forssell

Unknown application.

Nylander 1861, Gyelnik 1940

Placynthium stenophyllum (Tuck.) Fink

On sun-exposed calcareous rocks.

S Upl Dlr LyL TL

N He Bu NT No Tr

F Ks

Jørgensen 2007i, Hermansson 2008a, Pykälä 2010b, Ahti et al. 2012

Placynthium subradiatum (Nyl.) Arnold

On calcareous rocks, in dry places as well as on seepages, etc.

S TL

N -

F -

Jørgensen 2007i, Ahti et al. 2012

Placynthium tantaleum (Hepp) Hue

Placynthium diblastum Gyeln.

Placynthium nigrum var. *tantaleum* (Hepp) Arnold

Mainly on non-calcareous rocks but sometimes on calcareous rocks, dolomite, etc.

S Vg Ög Dlr Hrj Jmt LyL PL TL

N ST No Tr Fi

F -

Jørgensen 2007i, Hermansson 2008a, Ahti et al. 2012

Placynthium tremniacum (A.Massal.) Jatta

On periodically wet calcareous rocks.

S ÖI Gtl

N -

F -

Previous Scandinavian reports are incorrect. Johansson et al. (2000, p. 250-251) sub. nom. *P. lismorensis*.

Jørgensen 2007i, Ahti et al. 2012

Platismatia glauca (L.) W.L.Culb. & C.F.Culb.

Cetraria glauca (L.) Ach.

On the trunk and branches of trees and shrubs or on lignum or on rock.

S Sk-TL

N Øf-Fi

F A-InL

Culberson & Culberson 1968, Thell 2011b

Platismatia norvegica (Lyngé) W.L.Culb. & C.F.Culb.

Cetraria lacunosa f. *norvegica* Lyngé

Cetraria norvegica (Lyngé) Du Rietz

On tree bark, often branches, or on shaded (often vertical) rocks.

S Bh Vg-ÅsL (most common in Vrm Dlr Jmt)

N Ak Te VA-Tr

F V U EK PS

Ahlner 1948, Culberson & Culberson 1968, Löfgren & Moberg 1984, Kuusinen et al. 1993, Thor & Arvidsson 1999, Thell 2011b

***Plectocarpon cladoniae R.Sant.**

On *Cladonia pyxidata* (squamules).

S Upl Vrm Jmt ÅsL LuL

N Ho SF No

F -

von Keissler 1923, Thor 1992a, Santesson 1994a

***Plectocarpon encausticum (Nyl.) R.Sant.**

Epiphora encaustica Nyl.
Homostegia encaustica (Nyl.) Vouaux
Telimena encaustica (Nyl.) Theiss. & Syd.

On *Brodoa intestiniformis* (thallus).

S Hrtj ÅsL
N Op Bu SF NT
F -

Santesson 1993b

***Plectocarpon lichenum (Sommerf.) D.Hawksw.**

Celidium lichenum (Sommerf.) J.Schröt.
Dothidea lichenum Sommerf.
Lichenomyces lichenum (Sommerf.) R.Sant.
Sticta pulmonacea var. *pleurocarpa* Ach.

Arthonia stictarum (Tul.) Jatta

Celidium stictarum Tul.

On *Lobaria pulmonaria* (thallus).

S Sm-Hls Jmt
N Ak Op AA MR-No
F V PS

Santesson 1960, Degelius 1982, Santesson 1984b, Hawksworth & Galloway 1984, Santesson 1986, Santesson 1988, Diederich & Etayo 1994, Jonsson 2010

***Plectocarpon linitae (R.Sant.) Wedin & Hafellner**

Arthonia linitae R.Sant.

On *Lobaria linita* (thallus).

S ÅsL LyL TL
N No Tr Fi
F EnL

Santesson 1988, Wedin & Hafellner 1998, Suija & Jüriado 2020

***Plectocarpon nephromeum (Norman) R.Sant.**

Celidium stictarum var. *nephromea* Norman

On *Nephroma bellum* (thallus).

S Jmt
N NT No Tr
F -

Norman 1868, Santesson 1993b

***Plectocarpon peltigerae Zhurb. et al.**

On *Peltigera leucophlebia* and *P. aphthosa* (thallus).

S Vrm
N NT
F PK EnL

Santesson 1960, Ertz et al. 2003, Ertz et al. 2005, Puolasmaa et al. 2012, Suija & Jüriado 2020

***Plectocarpon scrobiculatae Diederich & Etayo**

On *Lobaria scrobiculata* (thallus).

S Vrm

N Ak Ho-No

F -

Santesson 1994b, Diederich & Etayo 1994, Jonsson 2010

Pleopsidium chlorophanum (Wahlenb.) Zopf

Acarospora chlorophana (Wahlenb.) A.Massal.

On vertical or overhanging rocks, mostly in alpine areas.

S Srm Upl Hls Hrj-TL

N He-Bu Ho-Fi

F A V EH Ks SoL-InL

Magnusson 1924b, Magnusson 1929a, Magnusson 1935c, Sjöqvist 1983, Hafellner 1993c

Pleopsidium flavum (Bellardi) Körb.

Acarospora chlorophana f. *dissoluta* H.Magn.

Acarospora oxytona (Ach.) A.Massal.

On vertical or overhanging rocks, mostly in alpine areas.

S LyL-TL

N Op Ho Tr Fi

F -

Magnusson 1924b, Magnusson 1929a, Magnusson 1946, Hafellner 1993c

Pleurosticta acetabulum (Neck.) Elix & Lumbsch

Melanelia acetabulum (Neck.) Essl.

Parmelia acetabulum (Neck.) Duby

Pleurosticta lichenicola Petr.

Mostly on the bark of solitary trees and shrubs in parks, avenues, churchyards, etc.

S Sk-Hls

N Øf-ST

F A-EP

Almborn 1948, Botnen & Tønsberg 1988, Lumbsch et al. 1988, Litterski 1992, Westberg & Thell 2011f

Poeltinula interjecta (Leight.) Hafellner

Encephalographa interjecta (Leight.) Th.Fr.

Melaspilea interjecta (Leight.) A.L.Sm.

On siliceous rocks.

S Sk Vrm

N -

F -

Not conspecific with *Poeltinula cerebrina* (DC.) Hafellner

Arup et al. 1997, Thor & Arvidsson 1999, Arup 2015

Polyblastia abscondita (Nyl.) Arnold

On calcareous rock and dolomite.

S Hrj
N Ho ST Tr
F V

Belongs to the Thelidium-clade, according to Savić & Tibell (2012).

Zschacke 1933c, Savić & Tibell 2012, Pykälä 2013

Polyblastia agraria Th.Fr.

Terricolous, on clayey soil.

S Sk Srm Upl
N -
F V

Uncertain status, might be synonymous with "Polyblastia" helvetica, according to Savić & Tibell (2012).

Fries 1877, Zschacke 1934, Swinscow 1971, Pykälä 2007, Savić & Tibell 2012

Polyblastia albida Arnold

Polyblastia amota Arnold

Amphoroblastia gotlandica Servit, probably conspecific with *P. albida* (Savić & Tibell 2012)

Polyblastia obsoleta Arnold

On calcareous rock and dolomite.

S Öl Gtl Dls Vg Vrm Upl Jmt LyL
N Ak Ho No
F V U

Zschacke 1933c, Magnusson 1946, Magnusson 1952a, Swinscow 1971, Degelius 1982, Savić & Tibell 2012

Polyblastia aurorae Savić & Tibell

On shaded calcareous rock in humid situations.

S Ög Jmt
N ST
F Ks EnL

Savić & Tibell 2012, Pykälä 2017

Polyblastia baltica Savić & Tibell

On open calcareous rocks in dry, coastal areas.

S Gtl Upl
N -
F V

Savić & Tibell 2012, Pykälä 2013

Polyblastia bombospora Th.Fr. & Almq. ex Th.Fr.

Terricolous.

S Hrj Jmt
N -
F -

Probably a Sporodictyon species, according to Savić & Tibell (2012).

Fries 1877, Zschacke 1934, Savić & Tibell 2012

Polyblastia borealis Savić & Tibell

On siliceous and calcareous rock close to streams or along seepages.

S Hls Hrj Jmt LyL LuL TL
N ST NT No Tr Fi
F Ks EnL

Savić & Tibell 2012, Pykälä 2013

Polyblastia bryophila Lönnr.

Verrucaria bryophila Nyl.
Thelidium velutinum auct., p.p.

On bryophytes on soil.

S Gtl Nrk Hrj LyL LuL TL
N Ho ST No-Fi
F Ks

Hellbom 1871b, Fries 1877, Zschacke 1933c, Magnusson 1952a, Pykälä 2010b, Pykälä 2010b, Savić & Tibell 2012

Polyblastia cataractae Savić & Tibell

On quartz intrusions in shaded calcareous rock close to waterfall.

S Jmt (Undersåker 2005 S.Savić)
N -
F -

Savić & Tibell 2012

Polyblastia circularis Blomb. & Th.Fr. ex Th.Fr.

On calcareous rock.

S Nrk Srm Vsm
N -
F -

Status unclear, according to Savić & Tibell (2012).

Fries 1866a, Hellbom 1871b, Fries 1877, Zschacke 1933c, Savić & Tibell 2012

Polyblastia clandestina (Arnold) Jatta

On calcareous slate.

S TL (Nuolja 1921 Magnusson)
N -
F -

Belongs to the *Thelidium*-clade, according to Savić & Tibell (2012).

Zschacke 1934, Magnusson 1952a, Savić & Tibell 2012

Polyblastia cupularis A.Massal.

Polyblastia intercedens (Nyl.) Lönnr., non sensu Th.Fr.

Not in S, N or F, according to Savić & Tibell (2012).

Zschacke 1933c, Magnusson 1952a, Swinscow 1971, Skjolddal 1982, Botnen 1984, Savić & Tibell 2012

Polyblastia decipiens (Vain.) Zschacke

Thelidium decipiens Vain.

Thelidium immersum (Leight.) Mudd

Verrucaria pyrenophora f. *incavata* Nyl.

On calcareous rocks.

S -

N -

F V PS

Status unclear, according to Savić & Tibell (2012).

Vainio 1921, Zschacke 1933c, Savić & Tibell 2012

Polyblastia dermatodes A.Massal.

On calcareous rock.

S -

N No (Vega 1975 Degelius)

F -

Belongs to the *Thelidium*-clade, according to Savić & Tibell (2012).

Zschacke 1933c, Swinscow 1971, Degelius 1982, Savić & Tibell 2012

Polyblastia dimidiata Savić & Tibell

On calcareous pebbles in open, dry situations.

S Gtl (Gotska Sandön 2006 S. Savić & L. Tibell)

N -

F Ks EnL

Savić & Tibell 2012, Pykälä 2013

Polyblastia dominans (Arnold) Zahlbr.

Thelidium dominans Arnold

On calcareous rock.

S -

N No (Alstahaug 1951 Degelius)

F -

Probably belonging to the *Thelidium*-clade, according to Savić & Tibell (2012).

Zschacke 1933c, Degelius 1955b, Savić & Tibell 2012

Polyblastia epigaea A.Massal.

Not in S, N or F, according to Savić & Tibell (2012).

Zschacke 1933c, Poelt 1969, Henssen 1995d, Savić & Tibell 2012

Polyblastia epomphala (Nyl.) Zschacke

On non-calcareous slate, near melting snow.

S TL (Vassitjåkko 1921 Magnusson)

N -

F -

Belongs to the *Thelidium*-clade, according to Savić & Tibell (2012).

Zschacke 1933c, Magnusson 1952a, Savić & Tibell 2012

Polyblastia eumecospora Zschacke

On calcareous rock.

S Ög
N Ak No
F -

Zschacke 1933c, Degelius 1982, Savić & Tibell 2012

Polyblastia forana (Anzi) Arnold

On calcareous rock.

S Gtl Vg Srm Vsm
N -
F -

Status unclear, according to Savić & Tibell (2012).

Fries 1877, Zschacke 1933c, Savić & Tibell 2012

Polyblastia friesii Lyngø

On crystalline schist.

S Jmt LuL TL
N -
F -

Probably belonging to the Thelidium-clade, according to Savić & Tibell (2012).

Zschacke 1933c, Magnusson 1952a, Savić & Tibell 2012

Polyblastia fugax Rehm

On calcareous soil.

S -
N -
F ES

Finnish specimens tentatively included in *P. fugax*.

Pykälä 2013

Polyblastia fusca Savić & Tibell

On open calcareous rock along river.

S TL
N -
F Ks EnL

Savić & Tibell 2012, Pykälä 2013

Polyblastia fuscoargillacea Anzi

Polyblastia obscurata (Vain.) Vain.

On calcareous rock.

S Öl Gtl Dls Vg Srm Hrj-TL
N SF ST No Tr Fi
F PeP EnL

Fries 1877, Zschacke 1934, Savić & Tibell 2012

Polyblastia gothica Th.Fr.

Amphoroblastia gothica (Th.Fr.) Servit

Thelidium verniceum Graewe ex Th.Fr.

On bryophytes on soil.

S Sm Vg Dlr LuL

N Te

F -

Uncertain status, possibly synonymous with *Merismatium nigrtellum* (Savić & Tibell 2012).

Fries 1877, Zschacke 1934, Hermansson 2008a, Savić & Tibell 2012

Polyblastia hellbomiana (Servit)

Amphoroblastia hellbomiana Servit

On calcareous rock.

S Nrk (Tysslinge 1869 Hellbom)

N -

F -

Status unclear, according to Savić & Tibell (2012).

Servit 1953, Savić & Tibell 2012

Polyblastia helvetica Th.Fr.

On calcareous rock.

S -

N No (Vega, Degelius)

F V

Enigmatic species, probably not belonging in Verrucariaceae (Savić & Tibell 2012).

Zschacke 1934, Swinscow 1971, Degelius 1982, Savić & Tibell 2012

Polyblastia hyperborea Th.Fr.

Polyblastia intercedens sensu Th.Fr.

On calcareous rock.

S -

N Fi

F EnL

Fries 1877, Vainio 1921, Zschacke 1933c, Magnusson 1946, Magnusson 1952a, Swinscow 1971, Elvebakk & Bjerke 2006, Savić & Tibell 2012

Polyblastia inconspicua Savić & Tibell

On calcareous slate.

S TL

N -

F Ks

Savić & Tibell 2012, Pykälä 2013

Polyblastia integrascens (Nyl.) Vain.

On calcareous rock in open habitats.

S Dlr Hrj Jmt LyL TL

N ST

F -

Savić & Tibell 2012

Polyblastia intermedia Th.Fr.

On calcareous rock.

S Nrk Srm Vsm
N Ak ST
F V PeP

Fries 1877, Vainio 1921, Zschacke 1933c

Polyblastia magnussoniana Servit

On calcareous schist.

S Jmt (Jormlien 1934 Magnusson)
N -
F -

Belongs to the Thelidium-clade, according to Savić & Tibell (2012).
Servit 1953, Savić & Tibell 2012

Polyblastia media Savić & Tibell

Shaded siliceous and calcareous rocks in humid situation.

S Ög Jmt
N ST
F PeP

Savić & Tibell 2012

Polyblastia moravica Zschacke

On siliceous rock.

S LyL (Tärna 1924 Magnusson)
N -
F -

Belongs to the Thelidium-clade, according to Savić & Tibell (2012).
Zschacke 1933c, Servit 1953, Savić & Tibell 2012

Polyblastia neglecta Savić & Tibell

On calcareous rocks and dolomite close to lakes and rivers.

S Hrij LyL LuL TL
N No
F EnL

Savić & Tibell 2012

Polyblastia nidulans (Stenh.) Arnold

On calcareous rock.

S Öl Gtl LyL
N -
F -

Belongs to the Thelidium-clade, according to Savić & Tibell (2012).
Fries 1877, Zschacke 1933c, Degelius 1944a, Savić & Tibell 2012

Polyblastia nordinii Savić & Tibell

On decaying bryophytes on calcareous ground.

S Jmt LyL

N Tr

F -

Savić & Tibell 2012

Polyblastia peminosa (Nyl.) Zahlbr.

On rocks in streams.

S LyL TL

N Ak Tr

F Ks

Belongs to the Thelidium-clade, according to Savić & Tibell (2012).

Vainio 1921, Zschacke 1933c, Magnusson 1946, Magnusson 1952a, Elvebakk & Bjerke 2006, Savić & Tibell 2012

Polyblastia plicata (A.Massal.) Lönnr.

On calcareous rock in wet habitats such as lake shores.

S LyL

N -

F EnL

Savić & Tibell 2012

Polyblastia potamophila Savić & Tibell

On dolomite and calcareous rocks close to rivers.

S Jmt LyL TL

N -

F -

Savić & Tibell 2012

Polyblastia pulchra Savić & Tibell

On dolomite in semi-shaded situations along rivers.

S TL

N -

F -

Savić & Tibell 2012

Polyblastia quinqueseptata (Hepp) Zschacke

On calcareous slate.

S TL (Nuolja 1921 Magnusson)

N -

F -

Belongs to the Thelidium-clade, according to Savić & Tibell (2012).

Zschacke 1933c, Magnusson 1952a, Savić & Tibell 2012

Polyblastia sakkobanensis Zschacke

Saxicolous.

S -

N Fi (Sakkobani 1917 Lyngø)

F -

Probably a Sporodictyon species, according to Savić & Tibell (2012)

Zschacke 1934, Savić & Tibell 2012

Polyblastia schisticola Servit

On schist.

S Hrj Jmt TL

N ST Tr

F -

Servit 1953, Savić & Tibell 2012

Polyblastia sendtneri Kremp.

On bryophytes on soil in mountain areas.

S Gtl Upl Hrj Jmt ÅsL LyL LuL TL

N AA Ho ST No-Fi

F Ks EnL

Fries 1877, Vainio 1921, Zschacke 1933c, Magnusson 1952a, Swinscow 1971, Savić & Tibell 2012

Polyblastia septentrionalis Lyngø

Saxicolous in a late snow patch.

S TL (Vassitjåkko 1921 Magnusson)

N -

F -

Magnusson 1952a, Savić & Tibell 2012

Polyblastia sepulta A.Massal.

On calcareous rock.

S ÖI Gtl Srm

N Ak No

F V

Probably belonging to the Thelidium-clade, according to Savić & Tibell (2012).

Fries 1877, Zschacke 1933c, Degelius 1955b, Savić & Tibell 2012

Polyblastia singularis (Kremp.) Arnold

Polyblastia hellbomii Arnold

Polyblastia micromicra Norman

On calcareous rock and calcareous schist.

S Hrj

N ST Fi

F Ks

Fries 1877, Zschacke 1933c, Pykälä 2011, Savić & Tibell 2012

Polyblastia subocellata Th.Fr.

On bryophytes on soil.

S -

N ST (Kongsvold 1863 Th. Fries)

F -

Probably a Sporodictyon species, according to Savić & Tibell (2012).

Fries 1877, Zschacke 1934, Jørgensen & Nordin 2009, Savić & Tibell 2012

Polyblastia terrigena Zschacke

On bryophytes on soil.

S -

N Fi (Maalselven, Norman)

F -

Uncertain status, possibly a Thelidium sp.

Zschacke 1933c, Jørgensen & Nordin 2009

Polyblastia torrentis Servit

On calcareous rock in a small stream.

S TL (Abisko 1921 Magnusson)

N -

F -

A doubtful species.

Servit 1953

Polyblastia velata (Th.Fr.) Vain.

Polyblastia intercedens f. *velata* Th.Fr.

Saxicolous, probably on calcareous rock.

S Jmt (Handöl, S. Almqvist)

N -

F V

A doubtful species.

Fries 1877, Vainio 1921

Polycauliona candelaria (L.) Frödén et al.

Xanthoria candelaria (L.) Th.Fr.

Xanthoria controversa (A.Massal.) Rabenh.

Xanthoria lychnea (Ach.) Th.Fr.

On trunks, branches, and twigs of deciduous trees, on exposed rocks manured by birds, rarely on lignum.

S Sk-TL

N Øf-Fi

F A-InL

Poelt & Petutsching 1992, Arup et al. 2013

Polycauliona phlogina (Ach.) Arup et al.

Caloplaca phlogina (Ach.) Flag.

On bark of deciduous trees, rarely lignicolous.

S Sk-Upl

N Øf

F V

Arup 2006a, Arup et al. 2013

Polycauliona polycarpa (Hoffm.) Frödén et al.

Xanthoria polycarpa (Hoffm.) Th.Fr. ex Rieber

On deciduous trees and shrubs, mainly branches and twigs, sometimes on lignum and rarely on rock.

S Sk-TL

N Øf-Tr

F A-InL

Arup et al. 2013

Polycauliona ucrainica (S.Y.Kondr.) Frödén et al.

Xanthoria ucrainica S.Y.Kondr.

Not in F, N or S. Specimens reported from S Jmt are *Polycauliona candelaria*.

Arup et al. 2013

Polycauliona verruculifera (Vain.) Arup et al.

Caloplaca granulosa auct., non Müll.Arg., non *Caloplaca elegans* v. *granulosa* (Schaer.) Th.Fr.

Caloplaca verruculifera (Vain.) Zahlbr.

Placodium verruculiferum Vain.

On seashore rocks frequently visited by birds.

S Bh-Sk-Vb

N Øf Bu Ho-ST No-Fi

F A-U St EP

Nordin 1972, Nordin 1972, Arup et al. 2013

Polychidium muscicola (Sw.) Gray

Polychidium kalkuense Räsänen

Leptogium muscicola (Sw.) Fr.

Polychidium muscicola f. *kalkuense* (Räsänen) Henssen

On bryophytes (on humid acidic rocks or more or less dry calcareous rocks).

S BI-TL

N Øf He-Fi

F A-U St-ES PH-InL

Jørgensen 2007f, Ahti et al. 2012

*** Polycoccum arnoldii (Hepp) D.Hawksw.**

Discothecium arnoldii (Hepp) Vouaux

On *Diploschistes scruposus*, *D. gypsaceus* (thallus).

S ÖI Nrk ÅsL LyL TL

N Ak

F -

Hawksworth & Diederich 1988

* **Polycoccum clauzadei Nav.-Ros. & Cl.Roux**

On *Xanthoria elegans* (thallus).

S TL
N Op Tr
F -

Navarro-Rosinés & Roux 1998, Alstrup 2004, Frisch et al. 2020a

* **Polycoccum crassum Vězda**

On *Peltigera venosa* (thallus).

S Jmt TL
N -
F -

Vězda 1970a, Hawksworth & Diederich 1988

* **Polycoccum deformans R.Sant. & Brackel**

On *Placopsis gelida* and *P. lambii* (thallus).

S Jmt
N Op Ho ST No
F -

von Brackel & Berger 2010

* **Polycoccum kernerii J.Steiner**

On *Lecidea fuscoatra* (thallus).

S Ög (Hästhölmén 2014 M. Kukwa)
N -
F -

Thell et al. 2014

* **Polycoccum marmoratum (Kremp.) D.Hawksw.**

Microthelia marmorata (Kremp.) Hepp

On *Polyblastia hyperborea*, and a sterile lichen (thallus).

S ÖI LyL TL
N -
F -

Swinscow 1966, Hawksworth & Diederich 1988

* **Polycoccum microsticticum (Leight.) Arnold**

On *Ionaspis lacustris* (thallus).

S TL
N SF
F -

The report from Norway (Op) in von Keissler (1923) refers to *Endococcus propinquus*.
Alstrup 1991, Orange 2002b

* **Polycoccum opulentum (Th.Fr. & Almq. ex Th.Fr.) Arnold**

Discothecium opulentum (Th.Fr. & Almq. ex Th.Fr.) Vouaux

Endococcus opulentus Th.Fr. & Almq. ex Th.Fr.

On *Polyblastia hyperborea* (thallus).

S ÖI Hrj Jmt

N -

F -

Fries 1868a, Santesson 1960, Hawksworth & Diederich 1988, Triebel 1989, Navarro-Rosinés & Roux 1990, Atienza & Hawksworth 2008

* **Polycoccum peltigerae (Fuckel) Vězda**

Didymosphaeria peltigerae Fuckel

On *Peltigera didactyla*, *P. polydactylon*, *P. praetextata*, *P. rufescens* (thallus).

S Vg Srm Upl

N -

F V U St EH ES PH PS

Santesson 1949, Santesson 1986, Hawksworth & Diederich 1988, van der Aa 1989, Puolasmaa et al. 2012

* **Polycoccum pulvinatum (Eitner) R.Sant.**

Polycoccum galligenum Vězda

Tichothecium pulvinatum Eitner

On *Physcia caesia*, *P. dubia* (thallus).

S Bh ÖI Ög Nrk Upl Hrj TL

N Op ST Fi

F A V St

Vězda 1969b, Hawksworth & Diederich 1988, Santesson 1993b, Puolasmaa et al. 2008

* **Polycoccum sporastatae (Anzi) Arnold**

Didymosphaeria sporastatae (Anzi) G. Winter

On *Sporastatia testudinea* (thallus).

S LyL TL

N SF MR Tr

F -

Vězda 1969b, Hawksworth & Diederich 1988, Triebel 1989, Alstrup et al. 2008

* **Polycoccum squamarioides (Mudd) Arnold**

Discothecium squamarioides (Mudd) Keissl.

Sorothelia squamarioides (Mudd) Zopf

On *Placopsis lambii*, *P. gelida* (thallus).

S Jmt TL

N No

F -

von Keissler 1923, Vězda 1969b, Santesson 1986, Santesson 1988, Hawksworth & Diederich 1988

* **Polycoccum superficiale D.Hawksw. & Miądl.**

On *Peltigera canina*, *P. malacea* (thallus).

S Ång (Ramsele 1979 R. Santesson)

N -

F V U

Hawksworth & Miadlikowska 1997, Puolasmaa et al. 2012

* **Polycoccum trypethelioides (Th.Fr.) R.Sant.**

Polycoccum condensatum Saut.

Didymosphaeria sauteri (Körb.) G.Winter

Discothecium sauteri (Körb.) Vouaux

Polycoccum sauteri f. *margarodes* Norm.

Polycoccum sauteri Körb.

Diatrype trypethelioides Th.Fr.

On *Stereocaulon alpinum*, *S. glareosum*, *S. paschale*, *S. rivulorum*, *S. tomentosum* (thallus).

S Nrk Vrm Dlr Hrj Jmt TL

N Op ST-Fi

F InL?

Fries 1858, Santesson 1960, Santesson 1984b, Hawksworth & Diederich 1988, Triebel 1989

* **Polycoccum ventosicola Zhurb.**

On *Ophioparma ventosa* (thallus, apothecia).

S -

N Tr

F -

Zhurbenko 2007

* **Polycoccum vermicularium (Linds.) D.Hawksw.**

Discothecium vermicularium (Linds.) Vouaux

Endococcus vermicularius (Linds.) D.Hawksw.

On *Thamnolia vermicularis* (thallus).

S Öl Gtl Hrj Jmt PL TL

N Bu Te Ho-MR Tr Fi

F -

von Keissler 1930, Hawksworth 1979b, Hawksworth & Diederich 1988, Ihlen 1995a, Zhurbenko 2012

* **Polydesmia lichenis Huhtinen & R.Sant.**

On *Peltigera aphthosa*, *P. leucophlebia* (thallus).

S Vrm Upl Ång ÅsL

N Op

F V U St EH ES PH PS PK

Huhtinen & Santesson 1997, Santesson 1998, Puolasmaa et al. 2012

Porina ahlesiana (Körb.) Zahlbr.

Porina septemseptata (Hepp ex Zwackh) Swinscow

On vertical or overhanging surfaces of siliceous rocks.

S -

N Ho (Bjørnen 1979-81 Botnen)

F -

Swinscow 1962a, Botnen 1984, Jørgensen 1996

+ **Porina beloniella (Nyl.) Zahlbr.**

Verrucaria beloniella Nyl.

A non-lichenized fungus. An unidentified discocarpous lichen (see von Keissler).

Porina collina Orange et al.

On vertical or slightly overhanging siliceous rock faces.

S -

N No

F -

Orange et al. 2020

Porina glaucocinerea (Nyl.) Vain.

Porina lectissima var. *terrestris* Nyl.

Porina norrlinii Vain.

On bryophytes on or directly on sandy soil.

S -

N -

F U EH

Vainio 1921

Porina lectissima (Fr.) Zahlbr.

Porina leptaleoides (Nyl.) Vain.

On siliceous rocks in humid places.

S Sk-Ång

N Ak Vf Ro-ST No

F A V EH

Vainio 1921, von Keissler 1937b

Porina leptalea (Durieu & Mont.) A.L.Sm.

Segestria leptalea (Durieu & Mont.) R.C.Harris

On old deciduous trees, also on rock.

S Sk Bh Ög

N -

F V EK

Swinscow 1962a, Palice 1999, Thor & Hultengren 2001, Pykälä 2010a

Porina mammillosa (Th.Fr.) Vain.

Lecanactis dilleniana var. *musciicola* Räsänen

Porina furvescens (Nyl.) A. L. Sm.

Verrucaria furvescens Nyl.

Porina mammillosa var. *trechalea* (Nyl.) Vain.

Sagedia trechalea (Nyl.) Arnold

Verrucaria trechalea Nyl.

On soil and bryophytes.

S Vrm Dlr Hrj Jmt LyL LuL TL

N ST? Tr Fi

F SoL-InL

von Keissler 1937b, Swinscow 1962a, Elvebakk & Bjerke 2006, Hermansson 2008a

Porina multipuncta (Coppins & P.James) Ertz et al.

Opegrapha multipuncta Coppins & P.James

On bark of trees, shrubs, and shrublets, sometimes on shaded rock.

S -

N Ro-No

F -

Coppins et al. 1992, Tønsberg 1992b, Jørgensen 1996, Tønsberg 1997, Ertz et al. 2019

Porina nigratula (Nyl.) Vain.

Verrucaria nigratula Nyl.

On bryophytes.

S -

N -

F EH PH PK

Vainio 1921

Porina olivacea (Borrer) A.L.Sm.

The identity of the specimen from Norway is questionable.

Magnusson 1936b

Porina rosei Sérus.

On *Ilex aquifolium*.

S -

N Ho

F -

Klepsland 2020

Porocyphus coccodes (Flot.) Körb.

Porocyphus areolatus (Flot.) Körb.

Collema furfurellum Nyl.

Porocyphus furfurellus (Nyl.) Forssell

On wet rocks.

S Bl-Ång ÅsL LyL TL

N Ak Ro Ho ST NT No

F V U EH PeP Ks

Henssen 1963a, Jørgensen 2007e, Ahti et al. 2012

Porocyphus kenmorensis (H.B.Holl ex Nyl.) Henssen

Psorotichia heterothallina Vain.

Lichiniza kenmorensis (H.B.Holl ex Nyl.) Crombie

Synalissa kenmorensis H.B.Holl ex Nyl.

On rocks in the inundation zone.

S (Bl) Hl Gst

N -

F V St PeP

Henssen 1974, Jørgensen 2007e, Ahti et al. 2012

Porocyphus populicola Räsänen

Unknown application.

Jørgensen 2007e, Ahti et al. 2012

Porpidia albocaerulescens (Wulfen) Hertel & Knoph

Huilia albocaerulescens (Wulfen) Hertel

Lecidea albocaerulescens (Wulfen) Ach.

Not in F, N or S. Incorrectly reported from N and S, refers to *Porpidia macrocarpa* etc.

Porpidia cinereoatra (Ach.) Hertel & Knoph

Lecidea baltica Malme

Huilia cinereoatra (Ach.) Hertel

Lecidea cinereoatra Ach.

Haploconium cinereoatrum (Ach.) M.Choisy

Lecidea convexa (Fr.) Flagey, non Nyl.

Lecidea discoidea Fr.

Huilia macrocarpa var. *convexa* (Fr.)

Lecidea macrocarpa var. *convexa* (Fr.) H.Magn.

Lecidea montana H.Magn., nom. nud.

Huilia musiva (Körb.) Vězda

Lecidea musiva Körb.

Porpidia musiva (Körb.) Hertel & Knoph

Haploconium musivum (Körb.) Vězda

On siliceous rocks.

S Sk-TL

N Op Ho No Tr Fi

F A-U St-EP PS-KP PeP-KiL EnL InL

Some specimens under this species may belong to *P. lowiana* Gowan.

Vězda 1978a, Inoue 1983b, Gowan & Ahti 1993, Fryday 2005, Elvebakk & Bjerke 2006

Porpidia contraponenda (Arnold) Knoph & Hertel

Lecidea contraponenda Arnold

On rock.

S Sm Ög Jmt LyL TL

N Ak Bu Ho ST NT? Tr

F A-EK

Hertel & Knoph 1984, Purvis 1985, Rambold 1989, Gowan & Ahti 1993

Porpidia crustulata (Ach.) Hertel & Knoph

Huilia crustulata (Ach.) Hertel.

Lecidea crustulata (Ach.) Spreng.

Haploconium crustulatum (Ach.) M.Choisy

Lecidea nitidula Fr.

Lecidea sphinctotricha H.Magn., probably *Porpidia crustulata* + a parasitic hyphomycete

Lecidea umensis H.Magn.

On siliceous stone, especially pebbles on more or less bare soil.

S Sk-TL

N Ak Bu Ho ST Tr Fi

F A-EK ES EP PS PK Kn Ks KiL EnL InL

Hertel 1971b, Hertel 1974, Hertel 1975c, Hertel 1977a, Schwab 1986, Gowan & Ahti 1993

Porpidia flavicunda (Ach.) Gowan

Lecidea flavicunda Ach.

Huilia flavocoerulescens (Hornem.) Hertel, "flavocaerulescens"

Lecidia flavocoerulescens Hornem., "flavocaerulescens"

Porpidia flavocoerulescens (Hornem.) Hertel & A.J.Schwab, "flavocaerulescens"

On siliceous rocks, mainly in alpine areas.

S Hls Hrj-TL

N Ak Op Bu Ro? Ho-Fi

F PeP-InL

Hertel 1977a, Schwab 1986, Gowan & Ahti 1993, Fryday 2005

Porpidia flavocruenta Fryday & Buschbom

On shaded siliceous rocks.

S Vg Hrj Jmt LuL TL

N -

F -

Fryday 2005

Porpidia grisea Gowan

Lecidea speirea var. *subconfluens* Th.Fr.

Lecidea subconfluens sensu Th.Fr. non Anzi

Lecidea subconfluens Zahlbr.

On siliceous rocks.

S Sm Hl Nrk Vrm Upl Hls Ång Vb Nb

N Ak

F A-U PeP InL

Gowan & Ahti 1993, Ågren 1995

Porpidia hydrophila (Fr.) Hertel & A.J.Schwab

Huilia hydrophila (Fr.) Hertel

Lecidea hydrophila Fr.

Haploparcon hydrophilum (Fr.) V. Wirth

Lecidea macrocarpa subsp. *convexa* var. *hydrophila* (Fr.) Th.Fr.

On siliceous rocks in streams, etc.

S Sm Hl Bh Vg Vrm

N Ak Ro-SF

F -

Magnusson 1951, Sundell 1963, Hertel 1975c, Hertel 1977a, Schwab 1986, Arup et al. 1997, Fritz 1998a, Thor & Arvidsson 1999

Porpidia irrigua Orange

On damp siliceous rocks.

S -

N SF (Førde 1998 S. Ekman)

F -

Orange 2014

Porpidia lowiana Gowan

On siliceous rocks.

S Sm Nrk Hls-Hrj ÅsL LyL LuL TL

N -

F V-EH PS PK OP-KiL EnL InL

Gowan & Ahti 1993

Porpidia macrocarpa (DC.) Hertel & A.J.Schwab

Lecidea contortula Steud.

Huilia macrocarpa (DC.) Hertel

Lecidea macrocarpa (DC.) Steud.

Lecidea macrocarpa var. *platycarpa* (Ach.) Th.Fr.

Lecidea macrocarpa f. *subflavicunda* Vain.

Haploearpon macrocarpum (DC.) M.Choisy

Huilia nigrocruenta (DC.) Hertel

Lecidea nigrocruenta Anzi

Haploearpon nigrocruentum (Anzi) Hertel

Lecidea phylliscina Nyl.

Lecidea platycarpa Ach.

Lecidea steriza (Ach.) Vain.

On rocks (mainly siliceous stone).

S Sk-TL

N Ak-Bu AA-ST No-Fi

F A-EH EP-PK OP Ks-InL

Sundell 1963, Hertel 1973, Hertel 1975c, Hertel 1975a, Hertel 1975b, Hertel 1977a, Timdal 1982, Skjolddal 1983, Gowan & Ahti 1993

Porpidia melinodes (Körb.) Gowan & Ahti

Huilia flavocoerulescens var. *ochracea* (Lyngé) Degel., "flavocoerulescens"

Haploearpon melinodes (Körb.) V.Wirth

Huilia melinodes (Körb.) Hertel

Lecidea melinodes (Körb.) H.Magn.

On open siliceous rocks.

S Hrj-TL

N He-Bu Ho SF ST-Fi

F PeP EnL InL

Degelius 1937, Hertel 1977a, Skjolddal 1983, Schwab 1986, Gowan & Ahti 1993

Porpidia nadvornikiana (Vězda) Hertel

On ultramafic boulders.

S Upl Gst

N MR

F -

Svensson & Westberg 2010, Palice & Tønsberg 2016, Svensson et al. 2017a

Porpidia ochrolemma (Vain.) Brodo & R.Sant.

Aspicilia ochrolemma (Vain.) Hue

Hymenelia ochrolemma (Vain.) Gowan & Ahti

Porpidia pseudomelinodes A.J.Schwab

On siliceous rocks along rivers and lake shores.

S Hl Vrm Hls Mpd Hrg Jmt Nb LyL-TL

N Ho ST NT No

F EH PK Kn PeP InL

Schwab 1986, Gowan & Ahti 1993, Brodo 1995

Porpidia platycarpoides (Bagl.) Hertel

Huiliala platycarpoides (Bagl.) Hertel

Lecidea platycarpoides Bagl.

On siliceous rocks.

S Sk Hl Vg

N Ro Ho No

F -

Hertel 1975c, Hertel 1975a, Klinkenberg 1979, Arup & Ekman 1991b

Porpidia rugosa (Körb.) Coppins & Fryday

Lecidea albocaerulescens var. *soralifera* Vain.

Lecidea albuginosa Nyl.

Huiliala glaucophaea (Körb.) Hertel

Lecidea glaucophaea Körb.

Porpidia glaucophaea (Körb.) Hertel & Knoph

Haplocarpon glaucophaeum (Körb.) V. Wirth

Gongylia nadvornikii Servít, in Nádv. p.p. (thallus not ap.)

Lecidea phaeenterodes Nyl.

Lecidea soledizodes (Nyl.) Vain, non (Lamy) Sandst

On siliceous rocks in wet localities.

S Sk-Dlr Hls Ång LyL PL TL

N Ak Op Bu Ro-MR No Tr

F A ES EnL

Magnusson 1952a, Hertel 1975a, Skjolddal 1983, Gowan & Ahti 1993

Porpidia soledizodes (Lamy ex Nyl.) J.R.Laundon

Huiliala soledizodes (Lamy ex Nyl.) Hertel

On siliceous rocks in shade.

S Gtl? Hl Bh Ög NrK Vrm Upl Dlr Hls Jmt

N Bu Ho

F ?

Schwab 1986, Gowan 1989, Muhr 1991b, Gowan & Ahti 1993, Fryday 2005

Porpidia speirea (Ach.) Kremp.

Lecidea koltarum Räsänen

Huilia speirea (Ach.) Kremp.

Lecidea speirea (Ach.) Ach.

On siliceous rocks.

S ÖI Gtl HI Ög Vrm Mpd-TL

N Ak-Bu VA Ho ST-Fi

F A V Ks EnL

Hertel 1975a, Hertel 1977a, Gowan & Ahti 1993

Porpidia superba (Körb.) Hertel & Knoph

Lecidea incrassata H.Magn.

Lecidea macrocarpa var. *superba* (Körb.) Th. Fr.

Huilia superba (Körb.) Hertel

Lecidea superba Körb.

On moderately calcareous rock.

S Ög Hls Hrj-TL

N He Op Ho SF ST NT Tr Fi

F Ks EnL

Magnusson 1946, Hertel 1967, Hertel 1975c, Hertel 1977a, Gowan & Ahti 1993

Porpidia thomsonii Gowan

On siliceous rocks.

S Jmt ÅsL PL LuL

N -

F Ks KiL EnL

Gowan & Ahti 1993

Porpidia trullisata (Kremp.) Körb.

Not in F, N or S.

Porpidia tuberculosa (Sm.) Hertel & Knoph

Lecidea meiosporoides (Norrl.) Nyl.

Lecidea solediza Nyl.

Huilia tuberculosa (Sm.) P.James

Lecidea tumida A.Massal.

On siliceous rocks.

S Sk-TL

N Ak AA Ro-SF ST NT No Tr

F A-PK Kn PeP Ks SoL EnL

Schwab 1986, Gowan & Ahti 1993, Elvebakk & Bjerke 2006

Porpidia zeoroides (Anzi) Knoph & Hertel

Huilia macrocarpa var. *trullisata* (Arnold) Hertel

Lecidea macrocarpa var. *trullisata* (Arnold) Mig., non *Lecidea speirea* v. *trullisata* (Kremp.) Arnold

On slightly calcareous rocks.

S Jmt

N -

F EnL

Hertel 1967, Gowan & Ahti 1993

Porpidinia tumidula (Sm.) Timdal

Toninia tumidula (Sm.) Zahlbr.

On calcareous rocks.

S Gtl

N -

F -

Timdal 1991, Jørgensen 1996, Thor & Arvidsson 1999, Mehus 2006

***Pronectria erythrinella (Nyl.) Lowen**

Nectriella erythrinella (Nyl.) Weese

Sphaeria erythrinella Nyl.

On *Peltigera canina*, *P. didactyla*, *P. hymenina*, *P. leucophlebia*, *P. malacea*, *P. polydactylon* (thallus).

S Srm-Upl Hrj Jmt Vb TL

N Op No Tr

F V U EH-PS Kn OP PeP Ks KiL InL

Hawksworth 1980b, Santesson 1984b, Santesson 1986, Santesson 1988, Puolasmaa et al. 2012

***Pronectria leptaleae (J.Steiner) Lowen**

Nectriella leptaleae (J.Steiner) R.Sant.

Xenonectriella leptaleae (J.Steiner) Rossman & Lowen

On *Physcia stellaris*, *Physconia distorta* (apothecia and thallus).

S Sm Srm Upl Jmt

N -

F -

Santesson 1984b, Rossman et al. 1999, Diederich 2003

***Pronectria ochrolechia R.Sant. (ined.)**

On *Ochrolechia frigida* (thallus).

S Hrj

N -

F -

***Pronectria ornamentata (D.Hawksw.) Lowen**

Nectriella ornamentata D.Hawksw.

Xenonectriella ornamentata (D.Hawksw.) Rossman & Lowen

On *Peltigera didactyla*, *P. lepidophora*, *P. rufescens* (thallus).

S Jmt TL

N Tr

F EP Ks InL

Rossman et al. 1999, Diederich 2003, Alstrup et al. 2008, Puolasmaa et al. 2012, Hawksworth 1983c

***Pronectria pertusariicola Lowen**

On *Pertusaria pertusa* (thallus).

S Sk (Krappert 1947 R. Santesson)

N -

F -

Rossman et al. 1999

***Pronectria robergei (Mont. & Desm.) Lowen**

Nectriella robergei (Mont. & Desm.) Weese

On *Peltigera canina*, *P. didactyla*, *P. lepidophora*, *P. leucophlebia*, *P. polydactylon*, *P. rufescens* (thallus).

S Vg UpI Dlr Hrj Jmt LyL TL

N Ak Bu ST No Tr

F V-EH PH

Santesson 1949, Hawksworth 1980b, Alstrup et al. 2008, Puolasmaa et al. 2012

***Pronectria santessonii (Lowen & D.Hawksw.) Lowen**

Nectriella coccinea auct., non s.str.

Nectriella fuckelii auct., non s.str.

Nectriella santessonii Lowen & D.Hawksw.

Nectriella tinctoria auct.

On *Anaptychia runcinata* (thallus).

S Vg

N -

F V

Santesson 1949, Lowen & Hawksworth 1986, Puolasmaa et al. 2008

***Pronectria tenuispora (D.Hawksw.) Lowen**

On *Peltigera didactyla*, *P. rufescens* (thallus).

S -

N -

F V U EH ES EP PS Ks KiL

Lowen 1990, Alstrup 2004, Puolasmaa et al. 2012

***Pronectria tinctoria (Fuckel) Lowen**

Nectria fuckelii Sacc.

On thallus and apothecia of *Physcia stellaris*.

S -

N -

F EH

Rossman et al. 1999

***Pronectria xanthoriae Lowen & Diederich**

On *Xanthoria parietina* (apothecia, thallus).

S Gtl Vb

N -

F -

Lowen & Diederich 1990, Ihlen & Wedin 2005

Protoblastenia calva (Dicks.) Zahlbr.

Protoblastenia rupestris var. *calva* (Dicks.) J.Steiner

On calcareous rocks.

S Sk-TL

N Ak Ho ST-Tr

F A V SoL

Poelt & Vězda 1977, Kainz & Rambold 2004

Protoblastenia cyclospora (Hepp ex Körb.) Poelt

Lecidea cyclospora (Körb.) Müll.Arg.

Protoblastenia globulificans (Nyl.) Zahlbr.

On calcareous rocks.

S Öl Gtl

N -

F -

Magnusson 1945b, Poelt 1975, Poelt & Vězda 1977, Thor & Arvidsson 1999, Kainz & Rambold 2004, Westberg & Fröberg 2007, Westberg et al. 2008c

Protoblastenia incrustans (DC.) J.Steiner

Protoblastenia rupestris var. *incrustans* (DC.) Zahlbr.

On calcareous rocks.

S Öl-Gst Dlr Jmt LuL TL

N Ak Bu Vf Ho SF NT-Tr

F A-U PeP

Poelt & Vězda 1977, Kainz & Rambold 2004

Protoblastenia lilacina Poelt & Vězda

On calcareous rock.

S Gtl

N -

F V (Västanfjärd 2009, Pykälä)

Kainz & Rambold 2004, Pykälä 2010b, Ekman & Ekman 2018

Protoblastenia rupestris (Scop.) J.Steiner

Lecidea rupestris (Scop.) Ach.

Protoblastenia rupestris var. *irrubata* (Ach.) Szatala

Verrucaria rupestris (Scop.) F.H.Wigg, non Schrad

On calcareous rocks.

S Sk-TL

N Ak-Te Ro Ho ST-Fi

F A-U EH PK Kn Ks

Poelt & Vězda 1977, Kainz & Rambold 2004

Protoblastenia siebenhaariana (Körb.) J.Steiner

Blastenia siebenhaariana (Körb.) Lettau

On calcareous rocks.

S Hls Hrj-TL

N Ak Op Ho SF ST No-Fi

F Ks

Poelt & Vězda 1977, Kainz & Rambold 2004, Pykälä 2010b

Protoblastenia terricola (Anzi) Lyngø

Protoblastenia siebenhaariana var. *terricola* (Körb.) Hafellner & Türk

Blastenia terricola (Anzi) Lindau

On calcareous soil, mainly in alpine areas.

S Hrj ÅsL TL

N He? Op Ho SF Tr? Fi

F Ks

Magnusson 1924a, Poelt & Vězda 1977, Timdal 1987a, Kainz & Rambold 2004, Pykälä 2010b

Protomicarea alpestris (Sommerf.) McCune

Lecidea alpestris Sommerf.

On naked soil.

S Sm Vg Vrm Dlr Hrj Jmt LyL

N He-Bu Te Ho SF ST No-Fi

F -

Fries 1874, Vainio 1934, Wall & Nicklasson 2010, McCune et al. 2018

Protomicarea limosa (Ach.) Hafellner

Lecidea borealis (Körb.) Anzi

Lecidella borealis Körb.

Lecidea limosa Ach.

On naked soil or on plant debris.

S Sk-TL

N He-Bu Ho-NT Tr Fi

F PK Kn Ks-InL

Fries 1874, Vainio 1934, Hafellner & Türk 2001

Protopannaria pezizoides (Weber) P.M.Jørg. & S.Ekman

Pannaria brunnea (Sw.) A.Massal.

Pannaria pezizoides (Weber) Trevis.

On soil rich in humus, on decaying wood, etc., especially in northern areas.

S Sk-TL

N Øf-Fi

F A-InL

Jørgensen 1978, Jørgensen 2007g, Ahti et al. 2012

Protoparmelia atriseda (Fr.) R.Sant. & V.Wirth

Lecanora atriseda (Fr.) Nyl.

On Rhizocarpon geographicum on siliceous rocks.

S Sk-Hls Jmt
N Ak Bu ST No
F V U EH

Fries 1871, Poelt & Leuckert 1991

Protoparmelia badia (Hoffm.) Hafellner

Lecanora badia (Hoffm.) Ach.

Lecanora badia var. *subcinerascens* Vain.

Lecanora grandis H.Magn.

Lecanora picea (Dicks.) Nyl.

Protoparmelia picea (Dicks.) Hafellner, nom. sed non planta

Lecanora subcinerascens (Vain.) Zahlbr.

On siliceous and calcareous rock.

S Sk-TL
N Øf-Vf AA-Fi
F A-PS KP OP-InL

Fries 1871, Ullrich & Poelt 1968, Henssen 1995c

Protoparmelia hypotremella Herk et al.

On wooden buildings, fenceposts, and lignum of Pinus.

S Ög Dlr Jmt
N -
F -

Aptroot et al. 1997b, Nordin & Hermansson 1999

Protoparmelia leproloma (R.Sant.) Rambold & Poelt

Lecidea leproloma R.Sant.

On Lecidea praenubila on rocks.

S Vrm Dlr-TL
N Op Bu Te AA Ho MR No-Fi
F -

Moberg 1986, Poelt & Obermayer 1990a, Poelt & Leuckert 1991

Protoparmelia memnonia Hafellner & Türk.

Lecanora picea auct., non (Dicks.) Hafellner

Protoparmelia picea auct.

On exposed, siliceous coastal rocks.

S Hl Bh Dls Vg
N NT No
F -

Contains at least two chemical forms; one with lobaric acid (medulla UV+) and one without (medulla UV-).

Magnusson 1935b, Degelius 1939a, Ullrich & Poelt 1968, Hafellner & Türk 2001, Coppins & Chambers 2009

Protoparmelia nephaea (Sommerf.) R.Sant.

Lecanora atrocincta Th.Fr.

Lecanora havaasii Vain., nom. nud.

Lecanora nephaea Sommerf.

Lecanora tristicolor Th.Fr.

On acidic rocks rich in iron minerals.

S Bh Srm Vrm Hrj-TL

N Ak Op Bu Ho MR ST No-Fi

F V U PH EnL

Fries 1871, Poelt & Obermayer 1990a, Wirth 1990

Protoparmelia nitens (Pers.) Sancho & A.Crespo

Lecanora nitens (Pers.) Ach.

On siliceous rocks.

S -

N Ho

F -

The Norwegian specimens are dubious. Perhaps *Protoparmelia badia*?

Havaas 1918

Protoparmelia ochrocoeca (Nyl.) P.M.Jørg. et al.

Lecanora granvinensis Vain., nom. nud.

Lecidea ochrocoeca Nyl.

Lecanora phaeobola Tuck.

On acidic tree bark.

S -

N Op VA-No

F -

Nylander 1861, Havaas 1918, Magnusson 1956b, Øvstedal 1979, Botnen & Tønsberg 1988, Jørgensen 1996

Protoparmelia oleagina (Harm.) Coppins

On lignum of decorticated trees, fences or buildings.

S Gtl Sm Bh Ög Nrk Srm UpI Dlr Hls Jmt TL

N AA Ho SF ST Tr

F U EH PH

Ap troot et al. 1997b, Nordin & Hermansson 1999, Elvebakk & Bjerke 2006

Protoparmelia phaeonesos Poelt

On *Aspilidea myrinii* (thallus).

S Hrtj Jmt

N Op Ho

F V

Poelt & Leuckert 1991, Pykälä et al. 2017c

Protoparmeliopsis achariana (A.L.Sm.) Moberg & R.Sant.

Lecanora achariana A.L.Sm.

Lecanora cartilaginea (Lilj.) Ach.

On moist acidic rocks (seepages, etc.), mainly in coastal areas.

S Sk-Hrj

N Øf Ak Op Vf-AA Ro-ST No-Fi

F A-St EH EP PeP

Fries 1871, Poelt 1958a, Santesson et al. 2004

Protoparmeliopsis laatokkaënsis (Räsänen) Moberg & R.Sant.

Lecanora laatokkaënsis (Räsänen) Poelt

Parmularia laatokkaënsis Räsänen

On lakeshore rocks.

S -

N -

F (EH)

Poelt 1958a, Santesson et al. 2004

Protoparmeliopsis macrocyclos (H.Magn.) Moberg & R.Sant.

Lecanora macrocyclos (H.Magn.) Degel.

Lecanora muralis var. *macrocyclos* H.Magn.

On sun-exposed acidic rocks.

S Sk-Upl

N -

F V

Degelius 1932b, Poelt 1958a, Timdal 1987b, Vitikainen 1989, Santesson et al. 2004

Protoparmeliopsis muralis (Schreb.) M.Choisy

Lecanora albomarginata (Nyl.) Cromb.

Lecanora muralis (Schreb.) Rabenh.

Placolecanora muralis (Schreb.) Räsänen

Lecanora saxicola (Pollich) Ach.

On exposed rocks, nitrophilous.

S Sk-TL

N Øf-Fi

F A-InL

Fries 1871, Poelt 1958a, Hafellner & Türk 2001

Protothelenella corrosa (Körb.) H.Mayrhofer & Poelt

Microglæna corrosa (Körb.) Arnold

Thelenella corrosa (Körb.) Vain.

Microglæna gibbosula (Nyl.) Blomb. & Forssell

Microglæna nericiensis Hellb.

On siliceous rock, slightly calcareous schist, etc.

S Hl Vg-TL

N Ak SF Fi

F V St EH Kn Ks InL

Hellbom 1867, Vainio 1921, Morgan-Jones & Swinscow 1965, Mayrhofer & Poelt 1985, Mayrhofer 1987a

***Protothelenella croceae (Bagl. & Carestia) Hafellner & H.Mayrhofer**

Xenosphaeria croceae Bagl. & Carestia

On *Peltigera aphthosa*, *P. leucophlebia*, *P. rufescens*, *Solorina crocea* (thallus).

S Hrj Jmt TL

N Op Tr

F -

Mayrhofer & Poelt 1985, Mayrhofer 1987a, Santesson 1988

Protothelenella leucothelia (Nyl.) H.Mayrhofer & Poelt

Microglaena leucothelia (Nyl.) Arnold

On bryophytes, soil, or thalli of *Cladonia*.

S Vrm Dlr Hrj Jmt ÅsL LuL TL

N -

F OP-SoL InL

Hellbom 1884, Vainio 1921, Mayrhofer & Poelt 1985, Mayrhofer 1987a, Karström & Thor 1991

Protothelenella petri H.Mayrhofer & Poelt

On living leaves of the bryophytes *Polytrichum commune* and *Polytrichum juniperinum*.

S TL (Riksgränsen 1978 Döbbeler)

N -

F -

Mayrhofer 1987a

Protothelenella polytrichi Döbbeler & H.Mayrhofer

On *Polytrichum sexangulare*.

S TL (Abisko 1980 Hertel & Döbbeler)

N -

F -

Not lichenized.

Mayrhofer & Poelt 1985, Mayrhofer 1987a

Protothelenella sphinctrinoidella (Nyl.) H.Mayrhofer & Poelt

Microglaena coenosa (Vain.) Zahlbr.

Thelenella coenosa Vain.

Microglaena geoctona Hellb.

Gloeopyrenia reducta (Th.Fr.) Zschacke

Microglaena reducta (Th.Fr.) Hellb.

Microglaena reducta var. *glacialis* (Vain.) Zahlbr.

Protothelenella reducta (Th.Fr.) Räsänen

Thelenella reducta (Th.Fr.) Vain.

Thelenella reducta var. *glacialis* Vain.

Microglaena sphinctrinoidella (Nyl.) Arnold

Microglaena sphinctrinoides subsp. *reducta* Th.Fr.

On dead or dying, saxicolous and terricolous bryophytes.

S Sm-TL

N Ak Op Te Ho SF ST NT Tr Fi

F U EH PH PK Kn Ks InL

Fries 1863, Hellbom 1867, Hellbom 1884, Vainio 1921, Mayrhofer & Poelt 1985, Mayrhofer 1987a

Protothelenella sphinctrinoides (Nyl.) H.Mayrhofer & Poelt

Gloeopyrenia gelatinosa (Zahlbr.) Zschacke

Microglaena gelatinosa Zahlbr.

Microglaena gelatinosa f. *diffluens* (Vain.) Zahlbr.

Verrucaria gelatinosa sensu Sommerf.

Microglaena sphinctrinoides (Nyl.) Lönnr.

Thelenella sphinctrinoides (Nyl.) Vain.

Verrucaria sphinctrinoides f. *diffluens* Vain.

On more or less dead bryophytes and on lichen thalli (Solorina, Peltigera, etc.).

S Vrm Upl-TL

N Ak Op Bu Ho MR-Fi

F PH PK Kn Ks KiL EnL InL

Vainio 1921, Mayrhofer & Poelt 1985, Mayrhofer 1987a

Protothelenella xylina H.Mayrhofer & Poelt

On weathered lignum.

S -

N -

F KiL (Muonio 1988 van den Boom)

van den Boom 1992a

***Protoungularia nephromatis (Zhub. & Zavarzin) Huhtinen et al.**

Corticifraga nephromae R.Sant. ined.

Ungulariopsis nephromae Zhub. & Zavarzin

On *Nephroma bellum* and *N. laevigatum* (thallus).

S Vrm Hrj Jmt Vb LyL

N Ho NT No

F -

Puolasmaa et al. 2008, Huhtinen et al. 2008, Frisch et al. 2020a

Pseudephebe minuscula (Nyl. ex Arnold) Brodo & D.Hawksw.

Alectoria minuscula (Arnold) Degel.

Parmelia minuscula (Arnold) Nyl.

On siliceous rocks and on pebbles, mainly in alpine areas.

S Sm Vg Vsm Upl Dlr Hls-Jmt ÅsL LyL LuL TL

N He-Bu Te-ST No-Fi

F V EP KP PeP-InL

Brodo & Hawksworth 1977, Myllys et al. 2011a

Pseudephebe pubescens (L.) M.Choisy

Parmelia lanata auct.

Alectoria lanea (Ehrh. ex Hoffm.) Vain.

Alectoria pubescens (L.) R.Howe

Parmelia pubescens (L.) Vain.

On siliceous rocks and on pebbles, common in alpine areas.

S Bl Gtl HI-TL

N Øf-Fi

F A-St EP KP-InL

Brodo & Hawksworth 1977, Myllys et al. 2011a

Pseudevernia furfuracea (L.) Zopf

Parmelia aboënsis Gyeln.

Parmelia ceratea (Ach.) Zopf

Parmelia ceratea f. *cylindricodigitellata* Gyeln.

Evernia furfuracea (L.) W. Mann

Parmelia furfuracea (L.) Ach.

Parmelia olivetorina (Zopf) Sandst.

Pseudevernia olivetorina (Zopf) Zopf

Parmelia soralifera (Bitter) Lyngé

Pseudevernia soralifera (Bitter) Zopf

Corticolous, lignicolous and saxicolous.

S Sk-LyL LuL

N Øf-No

F A-Ks SoL InL

Hale 1968, Hawksworth & Chapman 1971, Culberson et al. 1977, Halvorsen & Bendiksen 1982, Ahti & Thell 2011a

Pseudocyphellaria citrina (Pers.) Lücking et al.

Sticta citrina Pers.

Pseudocyphellaria crocata auct. scand.

Sticta crocata (L.) Ach.

On shaded, mossy rock walls, on branches of *Picea* in shaded places, etc.

S -

N Ro-No

F -

Degelius 1935, Ahlner 1948, Holien & Tønsberg 1996, Tønsberg et al. 1996, Jørgensen 1996, Jørgensen & Tønsberg 2007, Ahti et al. 2012

Pseudocyphellaria intricata (Delise) Vain.

Sticta intricata Delise

Sticta intricata var. *thouarsii* (Delise) Nyl.

Cyanisticta normalis Gyeln.

Pseudocyphellaria thouarsii (Delise) Degel.

On mossy rock walls and tree trunks.

S -

N Ro-SF

F -

Degelius 1935, Coppins & James 1979b, Tønsberg et al. 1996, Jørgensen 1996, Jørgensen & Tønsberg 2007, Ahti et al. 2012

Pseudocyphellaria norvegica (Gyeln.) P.James

Cyanisticta aberrans (Hav. ex Lynge) Gyeln.

Cyanisticta ecyphellata (Hav.) Gyeln.

Cyanisticta norvegica Gyeln.

On mossy rock walls and tree trunks.

S -

N Ro-SF

F -

Coppins & James 1979b, Tønsberg et al. 1996, Jørgensen 1996, Jørgensen & Tønsberg 2007, Ahti et al. 2012

Pseudoleptogium diffractum (Körb.) Müll.Arg.

Leptogium diffractum Kremp. ex Körb., non Arnold 1861, nom. nud.

On exposed calcareous rocks.

S Gtl

N -

F -

Degelius 1943b, Degelius 1944b, Thor & Arvidsson 1999, Nygren 2002, Jørgensen 2007c, Ahti et al. 2012

Pseudosagedia aenea (Wallr.) Hafellner & Kalb.

Porina aenea (Wallr.) Zahlbr.

Trichothelium aeneum (Wallr.) R.C.Harris

Porina carpinea (Pers. ex Ach.) Zahlbr.

, nom. illeg.

Porina chlorotica var. *carpinea* (Ach.) Keissl.

On smooth bark deciduous trees and shrubs, rarely on conifers.

S Sk-Dlr Hls

N Øf Ak VA-Ho MR-NT

F U EH PH

Vainio 1921, Poelt & Vězda 1977, Hafellner & Kalb 1995

Pseudosagedia borrieri (Trevis.) Hafellner & Kalb

Porina borrieri (Trevis.) D.Hawksw. & P.James

On bark of old Fagus, Fraxinus and Ulmus.

S Sk

N Ro Ho

F -

Arup & Ekman 1991b, Hafellner & Kalb 1995, Thor & Arvidsson 1999, Frisch et al. 2020a

Pseudosagedia byssophila (Körb. ex Hepp) Hafellner & Kalb

Porina byssophila (Körb. ex Hepp) Zahlbr.

On calcareous rocks in damp and shaded sites.

S Ö1

N Ro Ho

F -

Poelt & Vězda 1977, Fröberg 1989, Hafellner & Kalb 1995, Frisch et al. 2020a

Pseudosagedia chlorotica (Ach.) Hafellner & Kalb

Porina chlorothella (Nyl.) Zahlbr.

Porina chlorotica (Ach.) Müll.Arg.

Trichothelium chloroticum (Ach.) R.C.Harris

On shaded, siliceous rocks.

S Sk-Vb

N Ak Ro-SF No

F A-EK EH Kn

Vainio 1921, Hafellner & Kalb 1995, Elvebakk & Bjerke 2006

Pseudosagedia globulans (Vain.) R.Sant.

Porina globulans Vain.

On siliceous rocks in shade.

S Vrm Jmt TL

N Ak Ho SF

F -

Poelt & Vězda 1977, Øvstedal 1986, Muhr 1987a, Santesson et al. 2004

Pseudosagedia grandis (Körb.) Hafellner & Kalb

Porina grandis (Körb.) Zahlbr.

Porina guentheri var. *grandis* (Körb.) Swinscow

Saxicolous.

S (Ög)

N Ho No

F V

Poelt & Vězda 1977, Hafellner & Kalb 1995, Thor & Arvidsson 1999

Pseudosagedia guentheri (Flot.) Hafellner & Kalb

Porina guentheri (Flot.) Zahlbr.

Trichothelium guentheri (Flot.) R.C.Harris

Porina koerberi (Flot.) Lettau

On siliceous rocks near water, etc.

S Bl Sm Bh Nrk Dlr

N Op VA Ho No

F -

"*Porina koerberi*" from Ög (Theorin) is *Porina grandis*.

Poelt & Vězda 1977, McCarthy 1993, Hafellner & Kalb 1995

Pseudosagedia interjungens (Nyl.) Hafellner & Kalb

Porina interjungens (Nyl.) Zahlbr.

Porina interseptula (Nyl.) A.L.Sm.

On humid, siliceous rocks.

S Hl? Bh Vg?

N Ro Ho

F -

Magnusson 1937, Poelt & Vězda 1977, Skjolddal 1982, Hafellner & Kalb 1995, Arup et al. 1997, Thor & Arvidsson 1999

Pseudosagedia linearis (Leight.) Hafellner & Kalb

Porina chlorotica var. *linearis* (Leight.) A.L.Sm.

Porina chlorotica var. *persicina* (Körb.) Zahlbr.

Verrucaria chlorotica subsp. *leucotica* Nyl.

Trichothelium lineare (Leight.) R.C.Harris.

Porina linearis (Leight.) Zahlbr.

Porina persicina (Körb.) Zahlbr.

On calcareous rocks.

S Öl Gtl

N Ho ST

F V

Poelt & Vězda 1977, Hafellner & Kalb 1995

Pseudoschismatomma rufescens (Pers.) Ertz & Tehler

Opegrapha herpetica (Ach.) Ach.

Opegrapha rufescens Pers.

Opegrapha siderella (Ach.) Ach.

On bark of deciduous trees.

S Sk-Mpd

N Øf-He Bu-Te Ro-NT

F A-EK EH PH

Redinger 1938

Pseudothelomma ocellatum (Körb.) M.Prieto & Wedin

Cyphelium ocellatum (Körb.) Trevis.

Thelomma ocellatum (Körb.) Tibell

On lignum, often fence posts and wooden walls, very rarely on bark of deciduous trees.

S Sk Öl-Bh Vg-Jmt LyL

N Øf-Bu Te Ho-ST Tr Fi

F A-EK EH-EP OP-Ks

Not found with apothecia in F, N and S.

Tibell 1976a, Poelt & Buschardt 1978, Tibell 1978a, Tibell 1999a, Prieto & Wedin 2017

Psilolechia clavulifera (Nyl.) Coppins

Lecidea clavulifera Nyl.

Micarea clavulifera (Nyl.) Coppins & P.James

On rocks on shaded overhangs or on upended roots.

S Sk Sm Bh Srm Vrm Vsm Upl Dlr Gst Hls Hrj

N AA Ho-No

F V-EH KiL

Fries 1874, Coppins 1983, Botnen 1984, Botnen & Tønsberg 1988

Psilolechia leprosa Coppins & Purvis

On rocks with copper minerals (basic or slightly calcareous).

S Ög Hrj Jmt

N Ro Ho ST NT No

F -

Moberg 1986, Coppins & Purvis 1987, Botnen & Tønsberg 1988, Nordin 1996c

Psilolechia lucida (Ach.) M.Choisy

Lecidea lucida (Ach.) Ach.

On dry, siliceous rock under overhangs, sometimes on soil, lignum or corticolous on *Calluna*, *Betula* roots, etc.

S Sk-TL

N Øf-Bu Te-NT

F A-KiL EnL InL

Vainio 1934, Poelt & Vězda 1981, Coppins & Purvis 1987, Tønsberg 1992b

Psora decipiens (Hedw.) Hoffm.

Lecidea decipiens (Hedw.) Ach.

On calcareous soil.

S Öl-TL

N Ak-Bu Te Ro-Fi

F V EnL

Timdal 1984b, Schneider 1980

Psora globifera (Ach.) A.Massal.

Lecidea globifera Ach.

On sun-exposed rockfaces of calcareous slate.

S Dls Jmt

N Ak-Bu Te Ho SF ST-Tr

F Ks EnL

A report from TL (Alstrup 1991) refers to *Mycobilimbia lurida*.

Timdal 1984b, Thor & Arvidsson 1999, Granbo 1999, Larsson 2020b, Schneider 1980

Psora rubiformis (Ach.) Hook.

Lecidea rubiformis (Ach.) Wahlenb.

On calcareous soil, mainly in the alpine region.

S Htj-TL

N He-Bu Ro-ST No-Fi

F PK? Kn Ks SoL-InL

Timdal 1984b, Schneider 1980

Psora testacea Hoffm.

Chrysopsora testacea (Hoffm.) M. Choisy, nom. illeg.

Protoblastenia testacea (Hoffm.) Clauzade & Rondon

On calcareous rocks, in crevices or on vertical surfaces.

S Öl Gtl

N -

F -

Pettersson 1958, Timdal 1984b, Thor & Arvidsson 1999, Westberg & Fröberg 2007, Westberg et al. 2008c, Thor et al. 2019, Schneider 1980

Psora vallesiaca (Schaer.) Timdal

Lecidea albilabra auct.

Psora albilabra auct.

On calcareous soil.

S Öl Gtl

N Op

F -

Kleiven 1959, Rodenberg 1972, Timdal 1984b, Thor & Arvidsson 1999, Pettersson 2006, Westberg et al. 2008c, Schneider 1980

Psorinia conglomerata (Ach.) Gotth.Schneid.

Lecidea conglomerata Ach.

Toninia conglomerata (Ach.) Boist.

Lecidea rugifera Vain.

Lecidea silénii Vain.

Saxicolous, on (calcareous?) schist.

S -

N Op? ST (Kongsvold 1863 Th. Fries)

F InL

Poelt & Vězda 1981, Timdal 1991, Schneider 1980

Psoroglaena abscondita (Coppins & Vězda) Hafellner & Türk

Leucocarpia abscondita (Coppins & Vězda) Hafellner

Macentina abscondita Coppins & Vězda

On decaying bark of *Ulmus* and *Betula*.

S Upl

N -

F Ks

Coppins & Vězda 1977, Ekman 2013

Psoroglaena biatorella (Arnold) Lücking

Leucocarpia biatorella (Arnold) Vězda

Microglaena biatorella Arnold

On bryophytes on dolomite.

S ÅsL

N -

F Ks

To *Agonimia gelatinosa*?

Vězda 1969a, Poelt & Vězda 1981, Thor 1992a

Psoroglaena dictyospora (Orange) H.Harada

Leucocarpia dictyospora (Orange) R.Sant.

Macentina dictyospora Orange

On old *Betula lignum* and on an old *Fomes fomentarius*.

S Upl Jmt PL

N Ak

F EH Ks

According to Lücking (2008, p. 193-194) probably conspecific with *P. biatorella*.

Orange 1991b, Kalb & Hafellner 1992, Lücking 2008, Klepsland 2020

Psoroglaena stigonemoides (Orange) A.Henssen

Leucocarpia stigonemoides (Orange) Kalb & Hafellner

Macentina stigonemoides Orange

On bark of *Sambucus nigra*.

S Sk (Hallands Väderö 1990 Arup & Ekman)

N -

F -

Orange 1989, Arup & Ekman 1991b, Kalb & Hafellner 1992, Henssen 1995a

Psoroma hypnorum (Vahl) Gray

Jørgensen 1978, Galloway & Aptroot 1995, Holien & Jørgensen 2000, Jørgensen 2007g, Ahti et al. 2012

Psoroma hypnorum (Vahl) Gray var. *campestre* (Th.Fr.) Räsänen

On sandy or clayey soil.

S Öl Sm Dls Vg Ög Nrk Srm Upl

N -

F -

Probably more closely related to *Psoroma tenue* than *P. hypnorum*.

Elvebakk 2012

Psoroma hypnorum (Vahl) Gray var. hypnorum

Psoroma femsionense (Fr.) Trevis.

On bryophytes and soil, northern.

S Sk-TL

N Ak-Bu Te-Fi

F A V Kn PeP-InL

Fries 1871, Jørgensen 1978, Galloway & Aptroot 1995, Holien & Jørgensen 2000, Jørgensen 2007g, Ahti et al. 2012

Psoroma paleaceum (Fr.) Timdal & Tønsberg

Psoroma hirsutululum Nyl. ex. Crombie

Psoroma hypnorum var. *paleaceum* (Fr.) Rostr.

Parmelia paleacea Fr.

On bryophytes and soil.

S Vg Jmt

N ST No Tr Fi

F -

Jørgensen 1978, Timdal & Tønsberg 2006, Jørgensen 2007g, Arup 2011b, Ahti et al. 2012

Psoroma tenue Henssen

Henssen & Renner 1981, Jørgensen 2000a, Jørgensen 2007g, Ahti et al. 2012

Psoroma tenue Henssen var. boreale

On soil, mainly in alpine regions.

S Ög Jmt LuL TL

N Te Ho ST No-Fi

F SoL

Henssen & Renner 1981, Jørgensen 2000a, Jørgensen 2007g, Ahti et al. 2012

Psoronactis dilleniana (Ach.) Ertz & Tehler

Lecanactis dilleniana (Ach.) Kőr̀b.

Lecanactis dilleniana subsp. *sphaerobola* Lettau

On dry, siliceous rock, primarily under overhangs.

S Sk-Mpd Jmt TL

N Ak Op Ho-Fi

F V U St EH PS PK

Egea & Torrente 1994

Psorotichia diffluens (Nyl.) Arnold

Not in F, N or S.

Psorotichia fuliginascens (Nyl.) Forssell

Collemopsis fuliginascens Nyl.

Saxicolous.

S -

N -

F EH (Norrlin)

Nylander 1873b, Forssell 1885a, Jørgensen 2007e, Ahti et al. 2012

Psorotichia incavata H.Magn.

On shells in a bank of shell gravel.

S Bh (Uddevalla 1942 Magnusson)

N -

F -

A doubtful species.

Magnusson 1945b, Jørgensen 2007d, Ahti et al. 2012

Psorotichia lugubris (A.Massal.) Arnold

On calcareous rocks.

S ÖI Gtl

N -

F V

Prieto et al. 2015, Pykälä 2018

Psorotichia schaeferi (A.Massal.) Arnold

Pannaria schaeferi A.Massal.

Pyrenopsis schaeferi (A.Massal.) Nyl.

On calcareous or calcareous rocks.

S ÖI Ög Nrk Srm Upl Dlr Hrj Jmt LyL LuL

N Ak Bu No Tr

F V U KiL

Elvebakk & Bjerke 2006, Jørgensen 2007e, Ahti et al. 2012

Psorotichia vermiculata (Nyl.) Forssell

On calcareous rocks.

S ÖI Gtl

N -

F -

Forssell 1885a, Prieto et al. 2015

Psorula rufonigra (Tuck.) Gotth.Schneid.

Lecidea rufonigra (Tuck.) Nyl.

On *Spilonema revertens* ("densatulum") on rocks.

S TL

N He Op

F St

Degelius 1945b, Hertel 1970a, Poelt & Vězda 1981, Timdal 1984b, Hafellner 1984, Timdal 1987a, Poelt & Mayrhofer 1988, Schneider 1980

Pterygiopsis concordatula (Nyl.) P.M.Jørg.

Psorotichia assimulans (Nyl.) Forssell

Pyrenopsis concordatula Nyl.

Psorotichia coracodiza (Nyl.) Forssell

Pterygiopsis coracodiza (Nyl.) Henssen

On irrigated rocks or rocks at river shores.

S Bh Vg LyL

N Op ST

F V EH

Magnusson 1937, Jørgensen 1990a, Henssen & Jørgensen 1990, Nordin 2002b, Jørgensen 2007e, Ahti et al. 2012

Pterygiopsis lacustris P.M.Jørg. & R.Sant.

Often submerged on lakeshore rocks.

S Sm Hl Gst

N -

F -

Santesson 1939b, Jørgensen 1990a, Jørgensen 2007e, Ahti et al. 2012

Ptychographa xylographoides Nyl.

On decorticated logs.

S -

N Ho NT

F -

Nordén et al. 2019, Frisch et al. 2020a

Punctelia jeckeri (Roum.) Kalb

Punctelia ulophylla (Ach.) van Herk & Aptroot.

On bark of deciduous trees.

S Sk Vg (Upl)

N VA Ro

F -

Reported as *Parmelia dubia* from Upl by Hasselrot (1945b).

Hasselrot 1945b, van Herk & Aptroot 2000, Gauslaa 2000, Crespo et al. 2004, Christensen & Søchting 2007, Arup 2009b, Thell 2011c, Malmqvist et al. 2012

Punctelia reddenda (Stirt.) Krog

Parmelia reddenda Stirt.

Not in S, N or F; report from S Sk based on a misidentification (Westberg & Thell 2007).

Krog 1982, Westberg & Thell 2007

Punctelia stictica (Duby) Krog

Parmelia dubia var. *stictica* (Duby) Schaer.

Parmelia stictica (Duby) Nyl.

On siliceous rocks, often near streams.

S -

N Op SF

F -

Hale 1965a, Krog 1970, Krog 1982, Tønsberg et al. 1996, Thell 2011c

Punctelia subrudecta (Nyl.) Krog

Parmelia borreri auct., non s.str.

Parmelia dubia (Wulfen) Schaer.

Parmelia subrudecta Nyl.

On bark of deciduous trees.

S Sk Bh Vg

N VA-Ho

F -

The report from Uppland (as *Parmelia dubia*) in Hasselrot (1945b) refers to *Punctelia jeckeri*.

Hasselrot 1945b, Hale 1965a, Krog 1970, Jørgensen & Øvstedal 1975, Krog 1982, Tønsberg et al. 1996, Jørgensen 1996, Adler & Ahti 1996, Thor & Arvidsson 1999, Arup 2009b, Thell 2011c, Arvidsson et al. 2012, Malmqvist et al. 2012

Puttea caesia (Fr.) M.Svensson & T.Sprib.

Agyrium caesium Fr., non *Lecidea caesia* Ach. 1814

Lecidea symmictella Nyl.

On lignum, rarely on bryophytes.

S Sk-Hrj Ång

N Ak

F V EH PH PS PeP

Fries 1874, Malme 1895a, Vainio 1934, Dillman et al. 2012

Puttea duplex (Coppins & Aptroot) M.Svensson

Fellhanera duplex Coppins & Aptroot

On *Betula*.

S Hls

N Ho SF

F -

Tønsberg 2016, Svensson et al. 2017b, Frisch et al. 2020a

Puttea exsequens (Nyl.) Printzen & Davydov

Lecidea exsequens Nyl.

Lecidea gibberosa sensu Th.Fr. non Ach.

Lecidea sapinea, sensu Vain., non (Flörke) Zahlbr.

On conifer lignum.

S Gtl-Ög Vrm Upl Hls LuL

N Vf

F EH

Fries 1874, Nylander 1881a, Nylander 1881b, Vainio 1934, Davydov & Printzen 2012

Puttea margaritella (Hulting) S.Stenroos & Huhtinen

Fellhanera margaritella (Hulting) Hafellner

Lecidea margaritella Hulting

Lecidea symmictella var. *albida* Vain.

On *Ptilidium pulcherrimum* on bark of deciduous trees and decaying wood.

S Sm Dls Ög Srm Vrm Vsm Dlr-Hls Ång Jmt ÅsL TL

N Øf Ak Op-Te ST-Tr

F V PeP

Hulting 1910, Vainio 1934, Degelius 1944c, Poelt & Döbbeler 1975a, Timdal 1982, Hafellner & Türk 2001

Pycnora praestabilis (Nyl.) Hafellner

Hypocenomyce praestabilis (Nyl.) Timdal

Lecidea praestabilis Nyl.

On wood.

S Ög-Jmt

N Øf-Op

F -

Timdal 1984a, Hafellner & Türk 2001

Pycnora sorophora (Vain.) Hafellner

Hypocenomyce sorophora (Vain.) P.James & Poelt

Lecidea xanthococca subsp. *sorophora* Vain.

On conifer wood, rarely on bark of Pinus, etc.

S Sk Gtl Vg-TL

N Øf-VA SF ST-Fi

F V U EH PS Kn PeP Ks SoL

Vainio 1934, Timdal 1984a, Hafellner & Türk 2001

Pycnora xanthococca (Sommerf.) Hafellner

Hypocenomyce xanthococca (Sommerf.) P.James & Gotth. Schneid.

Lecidea xanthococca Sommerf.

On lignum of Pinus sylvestris.

S Nrk-LuL

N He-Bu Te Ho-Fi

F EH PK Kn Ks InL

Fries 1874, Timdal 1984a, Hafellner & Türk 2001

Pycnothelia papillaria (Ehrh.) Dufour

Cladonia papillaria (Ehrh.) Hoffm.

On soil on flat rocks, in heaths, etc., often in somewhat humid habitats.

S Sk-Hls Ång Vb LyL LuL

N Øf-Fi

F A-ES PH-PK Kn Ks EnL

Ahti & Stenroos 2013

***Pyrenidium actinellum Nyl.**

Leptosphaeria baeomycearia (Linds.) Sacc. & Trotter, uncertain synonym

Leptosphaeria caninae (W. Phillips & Plowr.) Sacc.

Leptosphaeria crozalsii Vouaux, uncertain synonym

Phaeospora granulosa Arnold

Leptosphaeria neottizans (Leight.) Zopf

Leptosphaeria oligospora (Vain.) Sacc. & D.Sacc.

Xenosphaeria oligospora Vain.

Leptosphaeria peltigerea G.Merr. ex Vouaux

Dacampiosphaeria rivana (De Not.) D.Hawksw.

Leptosphaeria rivana (De Not.) Sacc.

On *Peltigera collina*, *P. rufescens*, *P. venosa*, *Nephroma expallidum*, *Solorina crocea*, *S. saccata*, *Scytinium lichenoides lichenoides*, *Baeomyces placophyllus*, *B. rufus* (thallus).

S Ög Vsm Upl Hrj LuL TL

N VA Ro SF Fi

F A EH PS Ks SoL EnL InL

Santesson 1949, Santesson 1960, Hawksworth 1980b, Eriksson 1981, Hawksworth 1983b, Triebel 1989, Ihlen 1998, Puolasmaa et al. 2012

***Pyrenidium hyalosporum Alstrup et al.**

On *Placopsis gelida* (thallus).

S -

N No (Rombaksbotn 1959 R. Santesson)

F -

Grube & Hafellner 1990, Alstrup & Hawksworth 1990

Pyrenocarpon thelostomum (Ach. ex J.Harriman) Coppins & Aptroot

Psorotichia flotowiana (Hepp) Müll.Arg.

Pyrenopsis flotowiana (Hepp) Nyl.

Pyrenocarpon flotowianum (Hepp) Trevis.

Thrombium thelostomum (Ach. ex J.Harriman) A.L.Sm.

On acidic, wet rocks, sometimes inundated.

S Vg Ög Jmt

N Vf Ro

F V PeP

Jørgensen & Henssen 1990, Jørgensen 2007e, Coppins & Aptroot 2008, Ahti et al. 2012

Pyrenodesmia alociza (A.Massal.) Arnold

Caloplaca agardhiana (A.Massal.) Clauzade & Cl.Roux

Blastenia albopruinosa (Arnold) Th.Fr.

Caloplaca albopruinosa (Arnold) H.Olivier

Caloplaca alociza (A.Massal.) Mig., "alocyza"

On calcareous stone.

S Öl Gtl TL

N -

F -

Fries 1871, Fries 1874, Wunder 1974, Alstrup 1991

Pyrenodesmia chalybaea (Fr.) A.Massal.

Caloplaca chalybaea (Fr.) Müll.Arg.

On calcareous rocks.

S Öl-Sm Srm

N -

F -

Fries 1871, Malme 1931, Magnusson 1950a, Wunder 1974, Arup et al. 2013

Pyrenodesmia variabilis (Pers.) A.Massal.

Caloplaca alpestris (Ach.) Ozenda & Clauzade

Caloplaca variabilis (Pers.) Müll.Arg.

On calcareous rocks.

S Sk-Upl

N -

F V

Fries 1871, Magnusson 1950a, Wunder 1974, Arup et al. 2013

Pyrenopsis furfurea (Nyl.) Leight.

Pyrenopsidium furfureum (Nyl.) Forssell

Pyrenopsis haematopsis var. *terrigena* Th.Fr.

Pyrenopsis homoeopsis Nyl.

Pyrenopsidium iivaareense (Vain.) Forssell

Pyrenopsis iivaareense Vain.

Pyrenopsidium terrigenum (Th.Fr.) Forssell

On bryophytes, plant debris, and on rock.

S Jmt-TL

N Op Ho NT No Tr Fi

F Ks

Magnusson 1951, Henssen & Jørgensen 1990, Elvebakk & Bjerke 2006, Jørgensen 2007e, Ahti et al. 2012

Pyrenopsis grumulifera Nyl.

Malmgrenia acarosporoides Räsänen

Pyrenopsis subfuliginea Nyl., uncertain synonym

On siliceous rocks.

S Dls NrK LyL

N Ho MR ST Fi

F V U St-Kn PeP EnL InL

Forssell 1885a, Henssen & Jørgensen 1990, Nordin 2002b, Jørgensen 2007b, Ahti et al. 2012

Pyrenopsis haemalella (Nyl.) Blomb. & Forssell

Pyrenopsis sphinctotricha Vain.

On irrigated granitic rocks.

S Bh Vg Vrm Dlr Hls LyL

N ST Fi

F EH

Magnusson 1924a, Jørgensen 2007e, Hermansson 2008a, Ahti et al. 2012

Pyrenopsis haematina P.M.Jørg. & Henssen

Pyrenopsis haematopsis (Sommerf.) Th.Fr., nom. illeg.

On siliceous rocks, crystalline schist, etc.

S Bl-TL

N Ak Op Ho ST No-Fi

F EH Kn KiL

Fries 1860, Forssell 1885a, Henssen & Jørgensen 1990, Jørgensen 2007e, Ahti et al. 2012

Pyrenopsis impolita (Th.Fr.) Forssell

Saxicolous.

S Bl-Upl

N Ak

F EH InL

Forssell 1885a, Jatta 1893a, Foucard 2001, Ahti et al. 2012

Pyrenopsis pleiobola Nyl.

Pyrenopsis separans Hulting

On wet acidic rocks.

S Dls

N -

F EH

Forssell 1885a, Jørgensen 2007e, Ahti et al. 2012

Pyrenopsis reducta Th.Fr.

Saxicolous.

S (Dls?)

N ST Tr

F -

Forssell 1885a, Jørgensen 2007e, Jørgensen & Nordin 2009, Ahti et al. 2012

Pyrenopsis subareolata Nyl.

Pyrenopsis fuscatala Nyl.

Pyrenopsis rhodosticta auct. p.m.p.

On irrigated granitic rocks.

S Sk Bl Sm Bh Vg Nb PL

N Ho No

F -

Forssell 1885a, Magnusson 1924a, Jørgensen 2007e, Ahti et al. 2012

+Pyrenula coryli A.Massal.

Mycopyrenula coryli (A.Massal.) Vain.

On smooth bark of *Corylus* and *Sorbus aucuparia*.

S Sk-Srm Jmt

N Ho MR

F A-U EH Ks

Not lichenized.

Vainio 1921, Aptroot 1991a, Frisch et al. 2020a

Pyrenula laevigata (Pers.) Arnold

On smooth bark of deciduous trees (Corylus, Fagus, Populus, etc.).

S Gtl Vg
N He Vf-AA Ro Ho MR ST
F -

Almborn 1948, Almborn 1955b, Thor & Arvidsson 1999

Pyrenula macrospora (Degel.) Coppins & P.James

Pyrenula nitida var. *macrospora* Degel.

On smooth bark of trees and shrubs.

S -
N Ro Ho
F -

Degelius 1941, Harris 1973, Jørgensen 1996, Blom et al. 2015

Pyrenula nitida (Weigel) Ach.

On bark of deciduous trees, mostly Fagus.

S Sk-Ög (Nrk)
N Vf
F -

Almborn 1948, Arup et al. 1997, Thor & Arvidsson 1999

Pyrenula nitidella (Flörke ex Schaer.) Müll.Arg.

Pyrenula nitida var. *nitidella* (Flörke ex Schaer.) Schaer.

On smooth bark of Fraxinus, Fagus, Corylus, Carpinus, etc.

S Sk Gtl Bh Vg Ög
N Ro
F -

Almborn 1948, Arup et al. 1997, Thor & Arvidsson 1999, Nordén et al. 2013

Pyrenula occidentalis (R.C.Harris) R.C.Harris

Pyrenula harrisii Hafellner & Kalb

Pyrenula neglecta, quoad specim. scand.

On smooth bark of deciduous trees and shrubs, often Corylus or Sorbus.

S Bh
N Ro-ST
F -

Poelt & Vězda 1981, Kalb & Hafellner 1992, Jørgensen 1996, Arvidsson & Hultengren 2005, Blom et al. 2015

Pyrenula porphyria Shaer.

A *Staurothele* sp. reported from N ST.

Pyrrhospora quernei (Dicks.) Körb.

Lecidea quernei (Dicks.) Ach.

Protoblastenia quernei (Dicks.) Clauzade

On bark of deciduous trees, rarely on Juniperus.

S Sk-Hls

N VA-NT

F A V U

Poelt & Vězda 1981, Tønsberg 1992b, Hafellner 1993a

Pyrrhospora rubiginans (Nyl.) P.James & Poelt

Lecidea rubiginans (Nyl.) H.Magn.

On vertical or overhanging rock surfaces.

S Hl-Vrm Upl Dlr

N Ak AA VA Ho

F V EK EH

Magnusson 1923, Vainio 1934, Magnusson 1935b, Poelt & Vězda 1981, Hafellner 1993a

Racodium rupestre Pers.

Rhacodiopsis rupestris (Pers.) Donk

On rocks, mainly on vertical, shaded surfaces of acidic rocks.

S Sk-Jmt (not Öl Gtl)

N Ak Op VA-Ho MR ST No Fi?

F A-U St-KP EnL

Smith 1926, Christiansen 1947, Degelius 1948a, Koch 1962

Ramalina baltica Lettau

On bark of old, sun-exposed Quercus, rarely other deciduous trees.

S Sk-Gst

N -

F A-PH KP

Krog & James 1977, Tønsberg et al. 1996, Arup et al. 1997, Lorentsson 1998, Thor & Arvidsson 1999

Ramalina calicaris (L.) Fr.

On branches and twigs mainly of deciduous trees.

S Sk-Vb

N Øf Ak Vf-AA Ho

F A-U St EH EP PH

Krog & James 1977, Arup et al. 1997, Thor & Arvidsson 1999

Ramalina canariensis J.Steiner

On bark of old, sun-exposed deciduous trees.

S -

N Ro

F -

Krog & James 1977, Jølle 1977a, Tønsberg et al. 1996

Ramalina capitata (Ach.) Nyl.

Ramalina polymorpha var. *capitata* (Ach.) Clauzade & Cl.Roux

Ramalina strepsilis (Ach.) Zahlbr.

Ramalina tinctoria auct.

On tops of boulders (acidic rocks) manured by birds.

S Sk-TL

N (included in *R. polymorpha*)

F St EH EP PeP

Krog & James 1977

Ramalina cuspidata (Ach.) Nyl.

Ramalina armorica Nyl.

Ramalina atlantica W.L.Culb.

Ramalina curnowii Cromb. ex Nyl.

Ramalina stenoclada W.L.Culb.

On seashore rocks, in a zone below the occurrence of *Ramalina siliquosa*.

S Bh-Sk-Upl

N Øf Vf AA-No

F -

Krog & James 1977

Ramalina dilacerata (Hoffm.) Hoffm.

Fistulariella minuscula (Nyl.) Bowler & Rundel

Ramalina minuscula f. *caesiascens* H. Magn.

On twigs and branches mainly of *Picea abies* but also on *Alnus incana*, *Populus tremula*, *Salix caprea*, etc., sometimes on lignum.

S Ög Srm-TL

N Op ST Tr Fi

F A-SoL InL

Ahlner 1948, Krog & James 1977, Bowler & Rundel 1977, Tønsberg et al. 1996

Ramalina elegans (Bagl. & Carestia) Jatta

Ramalina calicaris subsp. *elegans* (Bagl. & Carestia) Stizenb.

On bark of old deciduous trees, often on branches.

S Sm Gtl Ög Srm Upl Gst Hls

N Vf

F A-U EP

Skytén 1993, Arroyo et al. 1995, Tønsberg et al. 1996, Ekman & Ekman 2015

Ramalina farinacea (L.) Ach.

Ramalina fallax Motyka

Ramalina hypoprotocetrarica W.L.Culb.

Ramalina reagens (B.de Lesd.) W.L.Culb.

Mainly on bark of deciduous trees, sometimes on conifers, rarely on lignum or rock.

S Sk-LuL Nb

N Øf-No Fi

F A-Ks SoL InL

Culberson 1966, Krog & James 1977, Bowler & Rundel 1978

Ramalina fastigiata (Pers.) Ach.

Ramalina populina (Hoffm.) Vain.

On bark of old, sun-exposed deciduous trees.

S Sk-Gst

N Øf Ak Op Vf-Ho SF

F A-EP KP

Krog & James 1977

Ramalina fraxinea (L.) Ach.

On bark of old, sun-exposed deciduous trees.

S Sk-Hls Vb

N Øf Vf Ak Ro Ho Bu MR NT

F A-KP

Krog & James 1977

Ramalina intermedia (Delise ex Nyl.) Nyl.

On rockface.

S -

N -

F Ks

Krog & James 1977

Ramalina obtusata (Arnold) Bitter

Mainly on twigs of *Picea*, rarely on deciduous trees.

S Sk-Upl Jmt Nb ÅsL LuL

N Op ST NT

F EH KP Ks SoL

Degelius 1942, Ahlner 1948, Krog & James 1977, Tønsberg et al. 1996, Lorentsson 1998, Thor & Arvidsson 1999, Jonsson & Nordin 2012b

Ramalina pollinaria (Westr.) Ach.

Ramalina europea Gasparyan, Sipman & Lücking

Ramalina intermedia auct., non (Delise ex Nyl.) Nyl.

On shaded, vertical or overhanging rocks and on old, deciduous trees, primarily in open habitats.

S Sk-TL

N Øf-AA Ro-Fi

F A-InL

Krog & James 1977, Gasparyan et al. 2017

Ramalina polymorpha (Lilj.) Ach.

On siliceous rocks manured by birds, especially in coastal areas and in the mountains.

S Sk-TL

N Øf He-Fi (incl. *R. capitata*)

F A-St EP KP EnL InL

Krog & James 1977, Laundon 1984a

Ramalina roesleri (Hochst. ex Schaer.) Hue

Fistulariella roesleri (Schaer.) Bowler & Rundel

Mainly on *Picea*, sometimes on *Alnus*, *Sorbus*, *Populus tremula*, usually on twigs and branches in damp sites.

S Vb Nb

N -

F EH EP KP Ks

Du Rietz 1925a, Ahlner 1948, Krog & James 1977, Thor & Arvidsson 1999

Ramalina siliquosa (Huds.) A.L.Sm.

Ramalina crassa (Delise ex Nyl.) Motyka

Ramalina druidarum W.L.Culb.

Ramalina incrassata (Nyl.) Motyka

Ramalina kullensis Zopf

Ramalina scopulorum (Retz.) Ach.

On siliceous rocks at seashores or, rarely, by large inland lakes, usually in a zone above *R. cuspidata*.

S Bh-Sk-Ång

N Øf Vf-No Fi

F A-St

Culberson 1967, Østhagen et al. 1975, Källsten 1975, Søchting 1976, Krog & James 1977, Sheard 1978

Ramalina sinensis Jatta

Ramalina calicaris f. *fibrillosa* Th.Fr.

Ramalina landroënsis Zopf

Ramalina nervosa Räsänen

Mostly on bark of *Populus tremula*, sometimes on *Salix*, *Alnus* or *Sorbus*.

S Vrm Upl-Nb

N Øf-Bu Te SF ST No

F A-Ks SoL

Magnusson 1955, Sundell 1963, Østhagen 1976, Krog & James 1977, Thor & Arvidsson 1999

Ramalina subfarinacea (Nyl. ex Cromb.) Nyl.

Ramalina angustissima (Anzi) Vain.

Ramalina angustissima f. *corymbosa* Räsänen

Ramalina farinacea var. *angustissima* Anzi

Ramalina farinacea var. *rubescens* Räsänen

On siliceous rocks, in exposed habitats, rarely on deciduous trees.

S Bh-Sk-Upl Ög Ång

N Øf Ak Bu-Fi

F A-EP

Lynge 1921a, Linkola 1932, Krog & James 1977

Ramalina thrausta (Ach.) Nyl.

Evernia arenaria Fr.

Ramalina crinalis (Ach.) Gyeln.

Alectoria thrausta Ach.

Mainly on branches and twigs of *Picea*, rarely on other trees, occasionally lignicolous or saxicolous.

S Sk-LuL Nb

N Ak-Te Ho SF ST-No Fi

F A-SoL

Ahlner 1948, Krog & James 1977, Muhr 1987a, Kuusinen et al. 1995, Tønsberg et al. 1996, Arup et al. 1997, Thor & Arvidsson 1999

Ramalina tinctorius Web.

Nom. non satis nota.

Ramboldia cinnabarina (Sommerf.) Kalb et al.

Lecidea cinnabarina Sommerf.

Protoblastenia cinnabarina (Sommerf.) Räsänen

Pyrrhospora cinnabarina (Sommerf.) M.Choisy

Placodium leucoleprosum Vain.

On bark and lignum of deciduous trees, *Picea*, and *Juniperus*.

S Vrm Upl Dlr-TL

N Ak-Te Ho-Fi

F A EH EP PS-Kn PeP KiL InL

Fries 1874, Brodo 1984b, Tønsberg 1992b, Hafellner 1993a, Kalb et al. 2008

Ramboldia elabens (Fr.) Kantvilas & Elix

Lecidea elabens Fr.

Pyrrhospora elabens (Fr.) Hafellner

Lecidea euphoroides sensu Fr.

Lecidea melancheima Tuck.

On conifer lignum, also fenceposts and wooden walls.

S Sm-TL

N Øf He-Bu Te AA Ro-Fi

F A-U EH EP-PK Kn PeP-KiL InL

Fries 1874, Hafellner 1993a, Kantvilas & Elix 2007

Ramboldia insidiosa (Th.Fr.) Hafellner

Lecidea insidiosa Th.Fr.

At first a parasite on *Lecanora varia*, *Lecanora conizaeoides*, etc., later an autonomous lichen, on lignum.

S Sk-Upl Hls

N Ho

F A V EH

Fries 1868b, Poelt 1974b, Hafellner & Türk 1995, Frisch et al. 2020a

Ramboldia subcinnabarina (Tønsberg) Kalb et al.

Lecidea subcinnabarina Tønsberg

Pyrrhospora subcinnabarina (Tønsberg) Hafellner

On bark of *Alnus incana*, rarely on *Salix* or *Sorbus*.

S -

N ST-No

F -

Tønsberg 1992b, Hafellner 1993a, Holien & Tønsberg 1996, Tønsberg et al. 1996, Kalb et al. 2008, Holien & Tønsberg 2012a

Ramonia chrysophaea (Pers.) Vězda

Stictis chrysophaea (Pers.) Pers.

On bark of old *Quercus* and *Ulmus*.

S Sk Bh Upl

N -

F V

Sherwood 1977, Coppins et al. 1994, Kantvilas 1995

Ramonia interjecta Coppins

On soft bark of deciduous trees and shrubs.

S Sk Öl Sm Vg Srm Vsm Upl

N Vf Ho

F V

Coppins et al. 1994, Nilsson et al. 2003, Nordén & Jordal 2016, Pykälä 2017

Ramonia luteola Vězda

On bark of *Ulmus* and *Fraxinus*.

S Gst

N Ro

F V

Vězda 1967b, Coppins et al. 1994, Ågren 1994, Pykälä 2008, Nordén & Jordal 2016

Ramonia subsphaeroides (Tav.) Vězda

On bark of *Sorbus* and (old trunk of) *Fraxinus*.

S -

N Ro Ho

F -

Vězda 1966a, Botnen 1993, Jørgensen 1996, Frisch et al. 2020a

***Reconditella physconiarum Hafellner & Matzer**

On *Physconia distorta* (thallus).

S Sm

N Ho

F -

Matzer & Hafellner 1990, Matzer & Pelzmann 1991

***Refractohilum galligenum D.Hawksw.**

On *Nephroma bellum*, *N. laevigatum* (thallus).

S Upl Hrj ÅsL

N NT No Tr

F KiL EnL

Hawksworth 1977a, Hawksworth 1979a, Santesson 1984b, Puolasmaa et al. 2008, Frisch et al. 2020a, Suija & Jüriado 2020

***Refractohilum peltigerae (Keissl.) D.Hawksw.**

Ovularia peltigerae Keissl.

On *Peltigera didactyla*, *P. canina*, *P. rufescens*, *P. polydactylon*, *P. collina* (thallus).

S Ög-Jmt

N ST-No Tr

F A-U St-ES

von Keissler 1930, Scholander 1933, Hawksworth 1977a, Hawksworth 1979a, Alstrup et al. 2008

Reichlingia anombrophila (Coppins & P.James) Frisch

Arthonia anombrophila Coppins & P.James

On smooth bark of *Quercus*, *Sorbus aucuparia* and *Sorbus intermedia*.

S Öl

N Ro SF

F -

Coppins 1989a, Knutsson et al. 1999, Frisch et al. 2020a

Reichlingia leopoldii Diederich & Scheid.

On deciduous trees and vertical rocks.

S Sk Bl Sm Hl Ög

N -

F V

Knutsson 2015b, Pykälä et al. 2017c

Reichlingia zwackhii (Sandst.) Frisch & G.Thor

Arthonia zwackhii Sandst.

On smooth bark of *Corylus* and *Fraxinus*.

S Gtl

N -

F -

Redinger 1937, Coppins & James 1978

***Rhagadostoma brevisporum (Navar.-Ros. & Hladun) Navar.-Ros.**

On *Peltigera lepidophora*, *P. rufescens* (thallus).

S Gtl Hrj

N -

F A Kn OP EnL

Navarro-Rosinés et al. 1999, Puolasmaa et al. 2012

***Rhagadostoma lichenicola (De Not.) Keissl.**

Bertia lichenicola De Not.

On *Solorina crocea* (thallus).

S Hlj-TL

N Ho-Fi

F KiL-EnL

von Keissler 1930, Santesson 1949, Magnusson 1952a, Santesson 1984b, Santesson 1986, Øvstedal 1986, Santesson 1994a, Navarro-Rosinés & Hladun 1994, Suija & Jüriado 2020

Rhaphidicyrtis trichosporella (Nyl.) Vain.

Leptorhaphis trichosporella (Nyl.) Riedl

Mycoporellum trichosporellum (Nyl.) Zahlbr.

Mycoporum trichosporellum Nyl.

On bark of *Alnus glutinosa*, *Quercus*, *Fagus*, and *Betula pubescens*.

S Sk Öl Sm

N Ho

F EH

Vainio 1921, Ekman et al. 2013, Frisch et al. 2020a

Rhexophiale rhexoblephara (Nyl.) Hellb.

Rexophiale coronata Th.Fr.

Lecanactis rhexoblephara (Nyl.) H.Olivier

Sagiolechia rhexoblephara (Nyl.) Zahlbr.

On soil and plant debris on calcareous ground.

S Dlr Hlj-TL

N He Ho-ST Tr Fi

F KiL EnL InL

Hellbom 1875, Vězda 1967a, Henssen 1995b, Hermansson 2008a

Rhizocarpon advenulum (Leight.) Hafellner & Poelt

On *Pertusaria flavicans*.

S -

N Ro

F -

Klepsland 2020

Rhizocarpon alpicola (Anzi) Rabenh.

Buellia alpicola Anzi

Rhizocarpon chionophilum Th.Fr.

Rhizocarpon conglomeratum (Fr.) Räsänen

Lecidea geographica f. *conglomerata* Fr.

Rhizocarpon geronticum (Ach.) H.Magn.

Lecidea oreites Vain.

Rhizocarpon oreites (Vain.) Zahlbr.

Rhizocarpon ridniense Räsänen

On rocks, mainly acidic, on exposed localities as well as in late snow patches, etc., especially in mountain regions.

S Sm-TL

N Ak-Bu Te-Fi

F EP Kn PeP-InL

Runemark 1956a, Runemark 1956b, Feuerer 1978

Rhizocarpon amphibium (Fr.) Th.Fr.

On siliceous rocks in the inundation zone by streams and lakes.

S Sm Hl Bh Vg Vrm Jmt LyL LuL TL

N Ho SF Tr

F V

Ihlen 2004b, Elvebakk & Bjerke 2006

Rhizocarpon anaperum (Vain.) Vain.

Lecidea anapera Vain.

On crystalline schist, etc.

S Hrj LyL

N -

F Ks

Vainio 1922, Ihlen 2004b

Rhizocarpon atroflavescens Lyngé

Rhizocarpon atroflavescens subsp. *pulverulentum* (Schaer.) Runemark

Rhizocarpon pulverulentum (Schaer.) Räsänen

Mainly on slightly calcareous rocks.

S Dlr Hrj Jmt LyL-TL

N Ho NT Tr Fi

F EnL

Runemark 1956a, Runemark 1956b, Feuerer 1978, Hertel 1981c, Elvebakk & Bjerke 2006

Rhizocarpon badioatrum (Flörke ex Spreng.) Th.Fr.

On siliceous rocks, crystalline schist, etc.

S Sk-TL

N Ak-Bu Te VA Ho-Fi

F V-Kn PeP-KiL EnL InL

Two different taxa are here included.

Malme 1914a, Magnusson 1946, Feuerer 1978, Timdal & Holtan-Hartwig 1988

Rhizocarpon bolanderi (Tuck.) Herre

Saxicolous.

S -

N AA (Valle 1955 Degelius)

F -

Gelting 1954, Degelius 1956, Feuerer 1991

Rhizocarpon caeruleoalbum (Kremp.) Zahlbr.

Saxicolous.

S Hrj

N No Fi

F -

Hellbom 1884, Feuerer 1978

Rhizocarpon caesium Fryday

Saxicolous, on the shore of a lake.

S Hrj LyL LuL

N -

F -

Fryday 2002, Nordin 2004a

Rhizocarpon carpaticum Runemark

Saxicolous, on overhangs.

S TL

N -

F -

Runemark 1956a, Runemark 1956b, Hertel 1983a

Rhizocarpon chioneum (Norman) Th.Fr.

On calcareous crystalline schists, etc.

S LyL TL

N No Tr Fi

F Ks EnL

Fries 1874, Pykälä 2017, Thomson 1968

Rhizocarpon cinereonigrum Vain.

On siliceous rock.

S Vg Dls Ång Jmt Nb ÅsL PL LuL

N Ak Op Vf SF No Tr

F EH PS

Magnusson 1957, Sundell 1963, Timdal & Holtan-Hartwig 1988

Rhizocarpon cinereovirens (Müll.Arg.) Vain.

Rhizocarpon discoëense Lyngø

Rhizocarpon ignobile Th.Fr.

Catillaria michaudii B.de Lesd. quoad specim. scand.

On crystalline schists, etc.

S Sk-TL

N Ak He Bu Ho ST

F V U St-ES PH-Kn Ks KiL InL

Malme 1914a, Magnusson 1952a, Timdal & Holtan-Hartwig 1988, Fryday 2002

Rhizocarpon confervoides DC.

Nom. non satis nota.

Rhizocarpon copelandii (Körb.) Th.Fr.

Rhizocarpon cyclodes Hellb. ex Th.Fr.

Rhizocarpon elevatum H.Magn.

Rhizocarpon hyperboreum (Vain.) Vain.

On crystalline schists, etc.

S Upl Hls Hrg Ång-TL

N Op Bu Ro Ho-ST No-Fi

F U PS Kn PeP EnL InL

Fries 1874, Malme 1914a, Ahlner 1944

***Rhizocarpon destructans Alstrup**

On Lecanora polytropa (thallus), on crystalline schist.

S Hrg (Ramundberget 1987 R. Santesson)

N -

F -

Determination uncertain, perhaps spec. nov.

Alstrup & Hawksworth 1990, Poelt 1990

Rhizocarpon dinothetes Hertel & Leuckert

On Protoparmelia badia on rocks.

S -

N Op (Lom 1989 Haugan et al.)

F -

Hertel & Leuckert 1979, Haugan 1990, Poelt 1990

Rhizocarpon disporum (Nägeli ex Hepp) Müll.Arg.

Rhizocarpon confervoides sensu A.Massal.

Rhizocarpon montagnei Körb.

On acidic rocks.

S Vg Ög Srm Vrm Vsm Upl Dlr

N Ak Op Ho No Tr Fi

F V U PK EnL

Feuerer 1991, Thor & Arvidsson 1999

Rhizocarpon distinctum Th.Fr.

Rhizocarpon hyalescens Vain.

Lecidea porphyrostrota Vain.

Rhizocarpon porphyrostrotum (Vain) Vain.

On siliceous and sometimes on calcareous rocks.

S Sk-Jmt Nb

N Ak He Bu Te AA Ho-ST No Tr

F A-U EP Kn PeP InL

Magnusson 1942b, Feuerer 1991, Ihlen 2004b

Rhizocarpon drepanodes Feuerer

Rhizocarpon "vermlandicum" in Vězda

On rocks, boulders and pebbles.

S TL

N Ho-MR No

F -

Probably a syn. of *Rhizocarpon ferax*.

Feuerer 1978, Degelius 1982, Timdal & Holtan-Hartwig 1988

Rhizocarpon effiguratum (Anzi) Th.Fr.

Saxicolous.

S Hj

N Op Bu Te Ho

F -

Øvstedal 1986, Timdal & Holtan-Hartwig 1988, Poelt 1990

Rhizocarpon eupetraeoides (Nyl.) Blomb. & Forssell

Rhizocarpon atroalbescens (Nyl.) Zahlbr.

Rhizocarpon chionophiloides (Vain.) Vain.

Lecidea eupetraeoides Nyl.

On siliceous rocks, etc.

S Dlr Vb Nb PL LuL TL

N Bu Ho NT-Fi

F EH PK PeP SoL-InL

Runemark 1956a, Runemark 1956b, Hertel & Ullrich 1976

Rhizocarpon eupetraeum (Nyl.) Arnold

Lecidea eupetraea Nyl.

Rhizocarpon grande f. *eupetraeum* (Nyl.) Th.Fr.

On siliceous rocks, etc.

S Sm-TL

N Ak He Bu Ho MR ST No-Fi

F A-InL

Fries 1874, Malme 1914a, Vainio 1922, Feuerer 1991

Rhizocarpon expallescens Th.Fr.

On crystalline schist, etc.

S H_{rj}-TL
N Ho ST No Tr
F EnL

Fries 1874, Malme 1914a, Thomson 1968

Rhizocarpon ferax H.Magn.

On crystalline schists, basic eruptive rocks, etc., especially on strongly exposed localities in the alpine zone.

S D_{lr} H_{rj}-TL
N He Op Te Ho SF ST No-Fi
F SoL EnL

Runemark 1956a, Runemark 1956b, Thomson 1968

Rhizocarpon frigidum Räsänen

Rhizocarpon geographicum subsp. *frigidum* (Räsänen) Hertel.

Rhizocarpon tinei subsp. *frigidum* (Räsänen) Runemark

Mainly on acidic rocks in the alpine zone.

S S_{rm} D_{lr}-TL
N He-Bu Ho-Fi
F EP Ks EnL InL

Runemark 1956a, Runemark 1956b, Timdal & Holtan-Hartwig 1988

Rhizocarpon furfurosum H.Magn. & Poelt

On copper- and iron-rich rock.

S Sm S_{rm}?
N Ak Op?
F -

Purvis & James 1985, Timdal & Holtan-Hartwig 1988, Ihlen 2004b, Wall & Nicklasson 2010

Rhizocarpon fuscocosquamosum Räsänen

Saxicolous.

S -
N -
F EnL

Räsänen 1947

Rhizocarpon geminatum Körb.

Rhizocarpon concretum (Ach.) Elenkin

Rhizocarpon disporum auct., non (Nägeli ex Hepp) Müll.Arg.

On siliceous rocks, crystalline schist, etc.

S Sk-TL
N Ak-Bu Te Ro-ST No-Fi
F A-ES PH-Kn Ks EnL

Fries 1874, Timdal & Holtan-Hartwig 1988, Feuerer 1991

Rhizocarpon geographicum (L.) DC.

Rhizocarpon vermlandicum Räsänen, cf. Runemark (1956a)

The taxonomy of the subspecies is very uncertain.

Vainio 1922, Runemark 1956a, Runemark 1956b, Feuerer 1978

Rhizocarpon geographicum (L.) DC. subsp. arcticum (Runemark) Hertel

Rhizocarpon tinei subsp. *arcticum* Runemark

Mainly on siliceous, acidic, exposed rocks in the alpine zone.

S Hrtj-TL

N Ho ST Tr Fi

F KP PeP Ks EnL

Runemark 1956a, Runemark 1956b

Rhizocarpon geographicum (L.) DC. subsp. diabasicum (Räsänen) Poelt & Vězda

Rhizocarpon amphiboliticum Räsänen

Rhizocarpon diabasicum Räsänen

Rhizocarpon havaasii Räsänen

Rhizocarpon tinei subsp. *diabasicum* (Räsänen) Runemark

Rhizocarpon umbricolum Räsänen

On acidic rocks but also on basic eruptive rocks.

S Ög-TL

N He-Bu Te AA Ro-Fi

F A U EH EP Kn PeP-KiL EnL InL

Runemark 1956a, Runemark 1956b

Rhizocarpon geographicum (L.) DC. subsp. geographicum

Rhizocarpon geographicum (L.) DC. var. *contigua* f. *fraudans* Räsänen

Rhizocarpon haeyrenii Räsänen

Rhizocarpon semilecanorinum Räsänen

Rhizocarpon subconglomeratum Räsänen

Rhizocarpon tinei subsp. *vulgare* Runemark

On siliceous rock, in mountain areas very rarely corticolous.

S Sk-TL

N Øf-Fi

F A-PK Kn PeP-InL

Vainio 1922, Runemark 1956a, Runemark 1956b, Feuerer 1978

Rhizocarpon geographicum (L.) DC. subsp. kittilense (Räsänen) Ahti

Rhizocarpon lindsayanum subsp. *kittilense* (Räsänen) Runemark

Rhizocarpon olivetorum Räsänen

Rhizocarpon riparium Räsänen

Mainly on siliceous rocks, often in somewhat shaded habitats.

S Ög-TL

N Ak-Bu AA Ro Ho MR NT-Fi

F A-PK Kn PeP Ks-InL

Runemark 1956a, Runemark 1956b, Feuerer 1978

Rhizocarpon geographicum (L.) DC. subsp. lindsayanum (Räsänen) Ahti

Rhizocarpon lindsayanum Räsänen

Rhizocarpon riparium subsp. *lindsayanum* (Räsänen) J.W.Thomson

On siliceous rock, often in dust-enriched sites.

S Sk-TL

N Øf-Fi

F A-Kn PeP SoL

Runemark 1956a, Runemark 1956b

Rhizocarpon geographicum (L.) DC. subsp. prospectans (Räsänen) D.Hawksw. & Sowter

Rhizocarpon tinei subsp. *prospectans* (Räsänen) Runemark

Mainly on exposed, siliceous rocks.

S Sk Hl Bh

N Ro-ST

F -

Runemark 1956a, Runemark 1956b, Hawksworth & Sowter 1969

Rhizocarpon glaucescens (Th.Fr.) Zahlbr.

Rhizocarpon expallescens subsp. *glaucescens* Th.Fr.

On crystalline schist, etc.

S LuL TL

N Op

F -

Fries 1874, Degelius 1948a, Kilius 1981, Timdal & Holtan-Hartwig 1988

Rhizocarpon grande (Flörke) Arnold

Rhizocarpon endamyleum Th.Fr.

Lichen oederi Gunnerus

Rhizocarpon petraeum sensu Körb., p.p.

On acidic rocks, often on vertical, sometimes slightly overhanging rocks.

S Sk-TL

N Ak-Bu Ho-ST No-Fi

F A-PK Kn PeP Ks SoL-InL

Malme 1914a, Feuerer 1978

Rhizocarpon hochstetteri (Körb.) Vain.

Rhizocarpon applanatum (Fr.) Th.Fr.

Rhizocarpon crenulatum H.Magn.

Rhizocarpon massalongii sensu Malme

On siliceous rocks, crystalline schist, etc.

S Sk-TL

N Ak-Bu AA Ro-SF No-Fi

F A-PK PeP-KiL EnL InL

Malme 1914a, Magnusson 1945b, Magnusson 1945b, Magnusson 1951, Timdal & Holtan-Hartwig 1988

Rhizocarpon inarense (Vain.) Vain.

Lecidea chionophila subsp. *inarenensis* Vain.

Rhizocarpon chionophilum sensu Vain.

Mainly on slightly basic rocks, on exposed places in the alpine zone, etc.

S Vrm Dlr Mpd-TL

N He-Bu Te Ho-Fi

F PeP KiL EnL InL

Runemark 1956a, Runemark 1956b

Rhizocarpon infernum (Nyl.) Lyng

Rhizocarpon hochstetteri var. *infernum* (Nyl.) H.Magn.

Catocarpus infernus (Nyl.) Hav.

Rhizocarpon massalongoi, "massalongii" sensu Malme et auct. plur.

On siliceous rocks.

S HI Bh Vg Vrm Upl Hrj Jmt

N Ho

F -

Magnusson 1945b, Magnusson 1948b, Fryday 2002

Rhizocarpon intermediellum Räsänen

Rhizocarpon wulfianum Räsänen

On somewhat calcareous schist and basic eruptive rock in exposed sites, parasitic on other lichens when young.

S Vrm Dlr Hrj-TL

N He Op Ho SF No

F EnL

Runemark 1956a, Runemark 1956b, Holtan-Hartwig & Timdal 1987, Poelt 1990

Rhizocarpon intersitum Arnold

Rhizocarpon birgittae H.Magn.

Rhizocarpon diversisporum Hav., nom. nud.

On acidic rocks and crystalline schist.

S Bh Vrm Hrj Jmt TL

N Ho MR NT Tr

F PK

Referred to *Rhizocarpon eupetraeum* by Feuerer (1991, p. 96).

Malme 1914a, Schade 1939, Magnusson 1952a, Magnusson 1955, Timdal & Holtan-Hartwig 1988

Rhizocarpon jemtlandicum Malme

Rhizocarpon vainioëense Lyng

On crystalline schists, siliceous rocks, etc., mainly in exposed localities.

S Vrm Mpd Hrj-TL

N Op Bu AA Ro-MR NT-Fi

F PK PeP Ks EnL

Malme 1914a, Timdal 1987a, Timdal & Holtan-Hartwig 1988, Malme 1914b

Rhizocarpon lavatum (Fr.) Hazsl.

Rhizocarpon obscuratum f. *lavatum* (Fr.) Th.Fr.

Rhizocarpon orphninum (Vain.) Vain.

Rhizocarpon petraeum sensu Kõrb., p.p.

On siliceous rocks in the inundation zone by streams and shore of lakes.

S Sk-TL

N Ak-Bu Te-Fi

F V U St EH EP-KiL EnL

Malme 1914a, Magnusson 1949a, Feuerer 1991, Ihlen 2004b

Rhizocarpon lecanorinum Anders

Rhizocarpon atrovirens auct.

On rocks exposed to dust, and on fresh stone surfaces, etc.

S Sk-Vb LyL PL

N Øf-Fi

F V-KP

Runemark 1956a, Runemark 1956b

Rhizocarpon leptolepis Anzi

Rhizocarpon "arctogenum"

Rhizocarpon phalerosporum (Vain.) Vain.

On siliceous rocks, on overhangs, seepages, etc.

S Vrm Vsm Dlr Hls Mpd Hrj Jmt LuL

N He-Bu Te NT Tr Fi

F EnL

Gelting 1954, Degelius 1956, Feuerer 1991, Thor & Arvidsson 1999

Rhizocarpon macrosporum Räsänen

Rhizocarpon lecanorinum var. *pseudolecanorinum* Räsänen

Rhizocarpon sphaerosporum Räsänen

On sun-exposed siliceous rock, often in dust-enriched sites.

S Sk-Hrj LuL

N Ak-AA Ho MR No

F V-EP PK

Runemark 1956a, Runemark 1956b, Feuerer 1978, Timdal & Holtan-Hartwig 1988

***Rhizocarpon malenconianum (Llimona & Werner) Hafellner & H.Mayrhofer**

On *Diploschistes* sp. (thallus).

S -

N Op (Vågå, Poelt)

F -

Hafellner & Mayrhofer 1977, Timdal & Holtan-Hartwig 1988, Poelt 1990

Rhizocarpon norvegicum Räsänen

On crystalline schist, slightly calcareous rocks, etc., also parasitic on various lichens (especially *Acarospora sinopica*).

S Hj-TL
N Op-Bu Ho MR-Fi
F -

Runemark 1956a, Runemark 1956b, Holtan-Hartwig & Timdal 1987, Poelt 1990

Rhizocarpon oederi (Weber) Körb.

Lichen koenigii Retz.

Rhizocarpon petraeum sensu Körb., p.p.

On rocks more or less rich in iron minerals.

S Sk-LuL TL
N Øf-Bu VA-Ho ST-Fi
F A-U St-EP PS PK PeP KiL EnL

Fries 1874, Malme 1914a, Vainio 1922, Feuerer 1991, Thomson 1968

Rhizocarpon parvum Runemark

Parasitic on *Tremolecia atrata* on rocks in the alpine zone.

S -
N Ho
F -

Swedish records erroneous.

Runemark 1956a, Runemark 1956b, Holtan-Hartwig & Timdal 1987, Poelt 1990

Rhizocarpon petraeum (Wulfen) A.Massal.

Rhizocarpon concentricum auct.

Rhizocarpon excentricum (Ach.) Arnold

Lecidea persimilis Nyl.

Siegertia petraea (Wulfen) V. Wirth

Rhizocarpon petraeum sensu Körb., p.p.

On more or less acidic as well as calcareous rocks.

S Sk-TL
N Ak-Bu Te Ro-Fi
F V U ES

Feuerer 1991, Ihlen 2004b

Rhizocarpon polycarpum (Hepp) Th.Fr.

Rhizocarpon confervoides sensu Rabenh., Kremp.

Rhizocarpon cyanescens (Hellb.) Zahlbr.

On siliceous rock, rarely corticolous or lignicolous.

S Sk-TL
N Ak-Bu Ro-ST No-Fi
F A-EH EP-PS KP Kn PeP-EnL

Fries 1874, Malme 1914a, Feuerer 1978, Scheidegger 1988, Timdal & Holtan-Hartwig 1988

Rhizocarpon postumum (Nyl.) Arnold

Lecidea postuma Nyl.

On siliceous rocks, crystalline schist, etc.

S Nrk Dlr Hrj LyL LuL

N Ak Ho Tr

F EH

Magnusson 1946, Feuerer 1978, Timdal & Holtan-Hartwig 1988, Ihlen 2004b

Rhizocarpon praebadium (Nyl.) Zahlbr.

Not in F, N or S. Reports from N and S refer to *Orphniospora moriopsis* or *Rhizocarpon copelandii*.

Rhizocarpon pusillum Runemark

Parasitic on *Sporastatia testudinea*, mainly on crystalline schist in exposed places.

S TL

N Op Te Ho SF Tr

F -

Runemark 1956a, Runemark 1956b, Hertel 1975b, Hertel 1975b, Timdal & Holtan-Hartwig 1988, Poelt 1990

Rhizocarpon pycnocarpoides Eitner

On siliceous rocks rich in iron minerals.

S TL

N Op Bu ST NT No

F -

Westberg et al. 2015a

***Rhizocarpon rapax V. Wirth & Poelt**

On *Aspicilia* (thallus).

S -

N -

F V

Hertel 1970b, Poelt 1990

Rhizocarpon reductum Th. Fr.

Lecidea lapillorum Vain.

Rhizocarpon lapillorum (Vain.) Vain.

Lecidea obscurata var. *fuscocinerea* f. *orphina* Vain.

Rhizocarpon obscuratum auct., not (Ach.) A. Massal.

Lecidea ochrotropa Nyl.

Rhizocarpon ochrotropum (Nyl.) A.L.Sm.

Rhizocarpon orphnum (Vain.) Zahlbr.

Lecidea porphyrostrota f. *lapillorum* Vain.

Saxicolous.

S Sk-Jmt

N Øf Ak Bu-Te VA-SF ST-Tr

F V U EH

Timdal & Holtan-Hartwig 1988, Feuerer 1991, Fryday 2000, Ihlen & Fryday 2002, Ihlen 2004b

Rhizocarpon richardii (Lamy ex Nyl.) Zahlbr.

Rhizocarpon atlanticum I.M.Lamb

Rhizocarpon constrictum Malme

On seashore rocks, on overhangs, etc.

S Bh-Sk-Ång

N Øf Bu-Te Ro-No

F A V EK

Magnusson 1948a, Schade 1963, Laundon 1986, Timdal & Holtan-Hartwig 1988

Rhizocarpon ridescens (Nyl.) Zahlbr.

Rhizocarpon solediosum sensu Øvstedal

On siliceous rocks rich in iron minerals.

S -

N He Op Ho SF

F -

Timdal & Holtan-Hartwig 1988

Rhizocarpon rittokense (Hellb.) Th.Fr.

Rhizocarpon melaneimum (Vain.) Zahlbr.

On siliceous rocks, mainly on strongly wind-exposed, alpine sites.

S Vrm Dlr Hjr-TL

N He-Bu Te MR ST Fi

F EnL InL

Vainio 1922, Gelting 1954, Timdal & Holtan-Hartwig 1988

Rhizocarpon roridulum (Th.Fr.) H.Olivier

Rhizocarpon obscuratum spp. roridulum Th.Fr.

On crystalline schist, etc.

S Dlr-TL

N ST Tr Fi

F EH ES PeP Ks

Report of this sp. by Magnusson (1924a, p. 379) refers to *Rhizocarpon amphibium* (Magnusson 1952a, p. 157).

Ahlner 1944, Ihlen 2004b

Rhizocarpon rubescens Th.Fr.

Rhizocarpon plicatile auct., non (Leight.) A.L.Sm.

On siliceous rocks.

S Sk-Dlr Hls Vb

N Ho

F V U St EH PS PK

Degelius 1931, Feuerer 1978, Fryday & Coppins 1996, Ihlen 2004b

Rhizocarpon saanaense Räsänen

Rhizocarpon sublucidum Räsänen

Mainly on calcareous rocks.

S Upl Mpd Hrj-TL

N Op Ho SF ST Tr Fi

F EnL

Runemark 1956a, Runemark 1956b, Feuerer 1978, Timdal & Holtan-Hartwig 1988

Rhizocarpon santessonii Timdal

On Tremolecia atrata mainly on rocks rich in iron minerals.

S Hrj

N He Op ST No Tr Fi

F -

Timdal 1986, Timdal 1987a, Poelt 1990

Rhizocarpon simillimum (Anzi) Lettau

On siliceous rocks and calcareous schist.

S Sm Bh Hrj Jmt

N Ak ST

F -

Schade 1939, Schade 1963, Feuerer 1978

Rhizocarpon subgeminatum Eitner

Rhizocarpon phaeolepis Vain.

Saxicolous.

S Sk Sm Bh Vg Nrk Srm Vrm Upl Hls

N Op VA SF

F V U

Magnusson 1955, Timdal & Holtan-Hartwig 1988, Feuerer 1991, Ihlen 2004b

Rhizocarpon sublavatum Fryday

On siliceous and schistose rocks.

S Dlr LyL

N Ho

F A

Fryday 2000, Ihlen 2004b

Rhizocarpon submodestum (Vain.) Vain.

Lecidea postuma subsp. *subrudecta* Vain.

Lecidea submodesta Vain.

Rhizocarpon subreductum (Vain.) Vain.

On siliceous rocks.

S Srm Vrm Upl Dlr Ång Hrj Jmt

N -

F Kn InL

Feuerer (1991) refers this sp. to *Rhizocarpon obscuratum*.

Vainio 1922, Ahlner 1944, Sundell 1963, Hertel 1974, Feuerer 1978

Rhizocarpon subpostumum (Nyl.) Arnold

On crystalline schist, etc.

S Ög LyL LuL TL

N Ho SF ST

F EH

Magnusson 1946, Feuerer 1978, Timdal & Holtan-Hartwig 1988, Ihlen 2004b

Rhizocarpon suomiense Räsänen

On siliceous rocks.

S Ög Vrm Hrj Jmt LyL PL TL

N Op Bu ST

F St

Ihlen 2004b

Rhizocarpon superficiale (Schaer.) Vain.

Runemark 1956a, Runemark 1956b

Rhizocarpon superficiale (Schaer.) Vain. subsp. boreale Runemark

Rhizocarpon effiguratum sensu Th.Fr., Malme etc.

On acidic rocks on exposed localities in the alpine zone.

S Hrj-TL

N Op SF MR-Fi

F -

Runemark 1956a, Runemark 1956b

Rhizocarpon superficiale (Schaer.) Vain. subsp. splendidum (Malme) Runemark

Rhizocarpon splendidum Malme

On open, acidic rocks.

S Srm

N VA-MR

F -

Runemark 1956a, Runemark 1956b

Rhizocarpon tetramerum (Vain.) Vain.

Rhizocarpon triseptatum H.Magn.

On crystalline schist, etc.

S LyL

N Ak VA

F InL

Feuerer (1991) refers this sp. to *Rhizocarpon obscuratum* (R. reductum).

Vainio 1922, Magnusson 1948b, Timdal & Holtan-Hartwig 1988

Rhizocarpon timdalii Ihlen & Fryday

On siliceous rocks, often near lakes.

S Sm Hl Bh Vg Srm Vrm

N Ak

F V

Ihlen & Fryday 2002, Ihlen 2004b

Rhizocarpon umbilicatum (Ramond) Flagey

Rhizocarpon calcareum (Ach.) Anzi

Siegertia pseudospeirea (Th.Fr.) V.Wirth, comb. non valid

Rhizocarpon pseudospeireum (Th.Fr.) Lynge

Siegertia umbilicata (Ramond) V.Wirth, comb. non valid

On calcareous or calcareous, sometimes acidic (siliceous) rocks.

S Sk-Vg Hrj-TL

N Ak-Op Ho MR NT-Fi

F V PH Ks EnL

Feuerer 1991, Ihlen 2004b

Rhizocarpon umense (H.Magn.) A.Nordin

Buellia umensis H.Magn.

On on coarse-grained sandstone.

S LyL (Sandvik 1924 A. H. Magnusson)

N -

F -

Magnusson 1946, Nordin 2005

Rhizocarpon viridiatrum (Wulfen) Körb.

Rhizocarpon subtile Runemark

On siliceous rocks, sometimes parasitic on *Aspicilia cinerea* and other lichens.

S Sk-Upl Ång Hrj TL

N Øf Ak Bu-ST No Tr

F V U EH Kn PeP Ks

Runemark 1956a, Runemark 1956b, Feuerer 1978, Hertel & Leuckert 1979, Tindal & Holtan-Hartwig 1988, Poelt 1990

Rhizocarpon vorax Poelt & Hafellner

On *Pertusaria* sp. on rocks (and on *Ochrolechia upsaliensis*?).

S -

N Op ST?

F -

Tindal & Holtan-Hartwig 1988, Poelt 1990, Feuerer 1991

Rhizoplaca chrysoleuca (Sm.) Zopf

Lecanora chrysoleuca (Sm.) Ach.

Lecanora rubina ("Vill.") Ach.

On rock; ornithocoprophilous.

S LyL-TL

N He-Bu SF-ST Tr Fi

F EnL InL

Fries 1871, Poelt 1958a, Tindal 1987a

Rhizoplaca melanophthalma (DC.) Leuckert & Poelt

Lecanora melanophthalma (DC.) Ramond

Parmularia melanophthalma (DC.) Räsänen

On boulders, vertical rocks, etc.

S Dlr Jmt-TL

N Op Bu Ho-NT Tr Fi

F EnL InL

Lynge 1937, Lynge 1940, Ahlner 1944

Rhizoplaca subdiscrepans (Nyl.) R.Sant.

Squamaria chrysoleuca var. *subdiscrepans* Nyl.

On calcareous and non-calcareous boulders and vertical rocks.

S Ång LyL TL

N He Op Bu MR ST

F -

Nylander 1863, Poelt 1958a

***Rhymbocarpus geographicus (J.Steiner) Vouaux**

Phacopsis geographicus (J.Steiner) Keissl.

Rhymbocarpus punctiformis Zopf

On Rhizocarpon atroflavescens, R. geminatum (thallus).

S Hjrj TL

N -

F -

Triebel 1989, Diederich & Etayo 2000

***Rhymbocarpus neglectus (Vain.) Diederich & Etayo**

Lecidea neglecta auct., non Nyl.

Llimoniella neglecta (Vain.) Triebel & Rambold

Nesolechia neglecta Vain.

On Lepraria neglecta, L. alpina (thallus).

S Vg Upl Mpd ÅsL LyL LuL TL

N Ho NT Tr Fi

F V U EH PK

Vainio 1934, Kümmerling et al. 1993, Santesson 1998, Diederich & Etayo 2000, Frisch et al. 2020a

***Rhymbocarpus pertusariae Diederich et al.**

On Pertusaria panyrga (thallus).

S Jmt TL

N Op ST Tr Fi

F -

Diederich & Etayo 2000, Alstrup et al. 2008, Frisch et al. 2020a

***Rhymbocarpus pubescens (Etayo & Diederich) Diederich & Etayo**

On Lepraria rigidula (thallus).

S -

N Ho (Osterøy T. Tønsberg 1983)

F -

Diederich & Etayo 2000

***Rhymbocarpus stereocaulorum (Alstrup & D.Hawksw.) Etayo & Diederich**

Geltingia stereocaulorum Alstrup & D.Hawksw.

Llimoniella stereocaulorum (Alstrup & D.Hawksw.) Hafellner

On *Stereocaulon depressum*, *S. rivulorum* (thallus).

S -

N Op Tr

F -

Alstrup & Hawksworth 1990, Zhurbenko & Santesson 1996, Diederich & Etayo 2000, Alstrup et al. 2008

Rimularia badioatra (Kremp.) Hertel & Rambold

Lecanora contracta (Th.Fr.) Zahlbr.

Lecanora corrugatula Nyl.

Mosigia illita (Nyl.) R.Sant.

On siliceous rock.

S Vg-Upl

N Ak No Tr

F -

Fries 1871, Degelius 1982, Hertel & Rambold 1990, Elvebakk & Bjerke 2006, Magnusson 1930b

Rimularia gibbosa (Ach.) Coppins et al.

Aspicilia bockii (Fr.) Boistel

Lecanora bockii (Fr.) Rabenh.

Mosigia gibbosa (Ach.) Fr. ex A.Massal.

Pyrenula gibbosa Ach.

On siliceous rock in damp sites.

S Bh Nrk Vrm Upl

N Ak Op Ho-MR Tr

F -

Hertel & Rambold 1990, Thor & Arvidsson 1999, Magnusson 1930b

Rimularia intercedens (H.Magn.) Coppins

Lecanora intercedens H.Magn.

Mosigia intercedens (H.Magn.) R.Sant.

On more or less sun-exposed acidic rocks.

S Vg-Upl Hls

N Ak Ro Ho-MR

F -

Purvis et al. 1993, Magnusson 1930b

Rimularia limborina Nyl.

Lecidea limborina (Nyl.) Lamy

Lecidea trochodes (Taylor ex Leight.) Cromb.

On siliceous rocks.

S Bl-LuL

N Ak Bu Vf Ro No Fi

F Ks KiL

Fries 1874, Hafellner 1984, Hertel & Rambold 1990

Rinodina albana (A.Massal) A.Massal

On a wide range of deciduous trees.

S -
N Op Te
F -

Klepsland 2020

Rinodina archaea (Ach.) Arnold

Rinodina exigua f. *lecideina* (Nyl.) Th. Fr.

Rinodina lecideoides (Nyl.) Kernst.

Lecanora sophodes var. *lecideoides* Nyl.

Rinodina subobscura H.Magn.

On deciduous trees; somewhat nitrophilous.

S Gtl Sm Bh Dls-Dlr Hls Mpd Jmt-LuL
N Ak Op MR Tr Fi
F U St EH PH PS KP Kn EnL InL

Mayrhofer & Moberg 2002c, Mayrhofer & Sheard 2007

Rinodina arnoldii H.Mayrhofer & Poelt

Not in F, N and S. Nordic reports refer to *Rinodina milvina*.

Rinodina aspersa (Borrer) J.R.Laundon

Rinodina atrocinerea var. *faticens* (Th.Fr.) Malme

Rinodina fatiscens (Th.Fr.) Vain.

Saxicolous, often on pebbles in damp and shaded sites.

S Sk-Upl
N -
F V? U

Mayrhofer & Moberg 2002c

Rinodina atrocinerea (Hook.) Körb.

On siliceous rocks.

S Sk-Upl
N AA-SF ST No
F -

Mayrhofer & Moberg 2002c

Rinodina balanina (Wahlenb.) Vain.

Physcia balanina (Wahlenb.) Th.Fr.

On seashore rocks manured by birds.

S -
N No-Fi
F -

Mayrhofer & Moberg 2002c

Rinodina bischoffii (Hepp) A.Massal.

Rinodina bischoffii var. *immersa* Körb.

Rinodina immersa (Körb.) Zahlbr.

On calcareous rocks.

S Sk-Gst Jmt LyL TL

N Ak Op ST No-Fi

F A V

Mayrhofer & Moberg 2002c, Sheard 2010

Rinodina calcarea (Arnold) Arnold

On calcareous rock.

S Öl Gtl

N -

F V

A report from LyL (Magnusson 1946) is a misidentification and one from TL (Poelt & Mayrhofer 1979) is a misprint.

Mayrhofer & Moberg 2002c, Pykälä 2008

Rinodina calcigena (Th.Fr.) Lyngæ

On calcareous rocks.

S Jmt TL

N Op No Fi

F A

Mayrhofer & Moberg 2002c

Rinodina castanomela (Nyl.) Arnold

Not in F, N or S; incorrectly reported from S. Report refers to *Rinodina endophragma*.

Rinodina castanomelodes H.Mayrhofer & Poelt

Not in F, N or S. Reports from S refer to *Rinodina bischoffii* (LyL) and *Rinodina calcigena* (TL).

Rinodina cinereovirens (Vain.) Vain.

Rinodina turfacea (Wahlenb.) Körb. var. *cinereovirens* (Vain.) H.Mayrhofer

Rinodina turfacea (Wahlenb.) Körb. var. *ecrustacea* (Vain.) H.Olivier

Rinodina turfacea var. *roscida* f. *succedens* (Nyl.) Blomb. & Forssell

On bark of deciduous trees, mainly *Salix*, *Sorbus* and *Populus*, rarely on soil.

S Vrm-TL

N ST-Fi

F V EH PH-Kn PeP-KiL EnL InL

Mayrhofer & Moberg 2002c, Sheard 2018

Rinodina colobina (Ach.) Th.Fr.

On nutrient-rich bark of deciduous trees.

S (Sk) Öl (Gtl) (Sm) (Bh) Ög Nrk Srm Vrm (Vsm) Upl Dlr

N Øf Ak He Bu Te AA Ho

F St EH

Mayrhofer & Moberg 2002c, Hermansson 2008a

Rinodina confragosa (Ach.) Körb.

Rinodina caesiella (Flörke ex Spreng.) Körb.

Rinodina confragosa subsp. *crassescens* Nyl.

Rinodina confragosa var. *exterior* Nyl.

Rinodina confragosa var. *extrusa* Vain.

Rinodina confragosa var. *dispersa* Räsänen

Rinodina crassescens (Nyl.) Arnold

Rinodina firma (Nyl.) Arnold

Mainly on vertical siliceous rocks.

S Sk-TL

N Op Bu Ro-ST No-Fi

F A-U St-PK PeP-KiL EnL InL

Mayrhofer & Moberg 2002c

Rinodina conradii Körb.

Lecanora pyreniospora Nyl.

On bryophytes and plant debris, humus-rich soil, lignum, bone, etc.

S Sk-TL

N Ak Op Ro ST Tr Fi

F V U EH EP PH PK PeP Ks EnL

Mayrhofer & Moberg 2002c

Rinodina consocians H.Magn.

Not in F, N or S. Report from F refers to *Rinodina metaboliza*.

Rinodina deflectens (Nyl.) Blomb. & Forssell

Lecanora deflectens Nyl.

Lecanora griseofusca Nyl.

Rinodina griseofusca (Nyl.) H.Olivier

On siliceous rock.

S -

N -

F EH

Mayrhofer & Moberg 2002c

Rinodina disjuncta Sheard & Tønsberg

On bark of *Salix*, *Sorbus* and *Alnus*, rarely other deciduous trees.

S -

N ST-No

F -

Mayrhofer & Moberg 2002c

Rinodina dubyana (Hepp) J.Steiner

Buellia dubyana (Hepp) Rabenh.

On calcareous rocks.

S Öl Gtl

N -

F -

Mayrhofer & Moberg 2002c

Rinodina efflorescens Malme

Rinodina hueiana (Harm.) Mig, non Vain

On bark of deciduous trees and shrubs, often *Alnus incana*, sometimes on *Picea abies* or epiphytic on *Parmelia sulcata*.

S Vg Srm-Upl Dlr Hls Jmt LyL LuL

N VA-Fi

F V St

Mayrhofer & Moberg 2002c

Rinodina endophragma I.M.Lamb

Saxicolous (on calcareous rocks?).

S Jmt

N Fi

F -

Mayrhofer & Moberg 2002c

Rinodina exigua (Ach.) Gray

On bark of deciduous trees, rarely on conifers, sometimes on lignum.

S Sk-Vb ÅsL LuL

N Ak-Te No Tr

F A-U St-EP PS PK Ks

Mayrhofer & Moberg 2002c

Rinodina fimbriata Körb.

Rinodina exigua var. *inundata* Blomb. ex Th.Fr.

On sometimes inundated siliceous rocks.

S Sk Hl Dls Nrk Vrm

N Ak Ho

F EH

Mayrhofer & Moberg 2002c

Rinodina flavosoralifera Tønsberg

On deciduous trees and shrubs, often *Quercus*.

S -

N AA Ro-SF

F -

Mayrhofer & Moberg 2002c

Rinodina freyi H.Magn.

Rinodina glauca Ropin

Rinodina ramulicola Kernstock ex Arnold, nom. illeg.

On bark of Alnus, Juniperus, Populus, Picea, etc.

S Vrm Jmt

N Ak Op

F U

Ropin & Mayrhofer 1993, Sheard 2010

Rinodina gennarii Bagl.

Rinodina demissa auct.

Rinodina exigua var. *obscurata* H.Magn.

Rinodina pallida H.Magn.

Rinodina salina Degel.

Rinodina subexigua (Nyl.) H.Olivier

On seashore rocks; somewhat nitrophilous; rarely on lignum or in inland sites.

S Sk-Upl Gst Ång

N Ak Ro-SF ST No Fi

F A-EK EP

According to Kaschnik (2006) but not Sheard (2010) conspecific with *Rinodina oleae* Bagl.

Mayrhofer & Moberg 2002c, Kaschik 2006, Sheard 2010

Rinodina granulans Vain.

Not in F, N or S. Reports from F refer to *Rinodina trevisanii*.

Rinodina griseosoralifera Coppins

On bark of deciduous trees in parks, by churches etc.

S -

N VA-SF

F -

Mayrhofer & Moberg 2002c

Rinodina insularis (Arnold) Hafellner

On *Lecanora rupicola* on rocks.

S -

N Op (Vågå 1984 Hafellner & Ochsenhofer)

F -

Mayrhofer & Moberg 2002c

Rinodina interpolata (Stirt.) Sheard

Rinodina diplocheila sensu H.Magn. p.p.

Rinodina diplocheila f. *luxurians* H.Magn.

On overhanging granitic rocks.

S Sk Sm-Vg Nrk-Vrm Hls Mpd LuL

N VA Ro Ho

F V U

Mayrhofer & Moberg 2002c

Rinodina isidioides (Borrer) H.Olivier

On bark of deciduous trees, often Fraxinus.

S -
N Ro Ho
F -

Mayrhofer & Moberg 2002c

Rinodina laevigata (Ach.) Malme

On bark of deciduous trees or Juniperus, rarely lignicolous.

S Sm Dls Ög Nrk Srm Vsm-Ång Jmt
N Ak No
F V U St EH KP Kn PeP EnL InL

Mayrhofer & Moberg 2002c

Rinodina laxa H.Magn.

Not in F, N or S. Report from N refers to *Rinodina archaea*.

Rinodina lecanorina (A.Massal.) A.Massal.

Rinodina ocellata (Hoffm.) Arnold, non (Flot.) Branth & Rostr

On calcareous rock.

S Öl Gtl Vg
N ST
F -

Mayrhofer & Moberg 2002c

Rinodina luridata (Körb.) et al.

Rinodina iodes H.Mayrhofer & Poelt

On calcareous rocks.

S Öl Vg
N Ak ST
F -

Mayrhofer & Moberg 2002c

Rinodina luridescens (Anzi) Arnold

Buellia coniopta (Nyl.) Malme

Rinodina coniopta (Nyl.) Hav.

Rinodina sciodes (Nyl.) H.Olivier

On siliceous seashore rocks.

S Bh-Sk-BI Ög Vg UpI
N Øf Vf Ro-SF ST No
F -

Mayrhofer & Moberg 2002c

Rinodina malangica (Norman) Arnold

On decaying wood of *Alnus*.

S -
N Tr (Målselven, Norman)
F -

Mayrhofer & Moberg 2002c, Jørgensen & Nordin 2009

Rinodina metaboliza Vain.

Lecanora sophodes var. *lecideina* Nyl.

On bark of *Alnus* and *Populus tremula*, rarely on *Salix*, *Sorbus aucuparia*, etc.

S Mpd Hrj Jmt

N Op

F EnL

Mayrhofer & Moberg 2002c

Rinodina milvina (Wahlenb.) Th.Fr.

Rinodina arnoldii auct., non H.Mayrhofer & Poelt

Lecanora sophodes var. *submilvina* Nyl.

Rinodina sophodes var. *scopulina* Nyl.

On granite, mica schist, etc.

S ÖI Ög-TL

N AA Ho-Fi

F V-EH EP PK Kn-Ks EnL InL

Mayrhofer & Moberg 2002c

Rinodina mniaroea (Ach.) Körb.

Rinodina mniaroea (Ach.) Körb., orth. var. (see Sheard et al, 2017, p. 644)

Lecanora mniaroea Ach.

Mayrhofer & Moberg 2002c

Rinodina mniaroea (Ach.) Körb. var. cinnamomea Th.Fr.

Rinodina cinnamomea (Th.Fr.) Räsänen

Rinodina mniaroea var. *cinnamomea* Th.Fr., orth. var. (see Sheard et al, 2017, p. 644)

Terricolous, on dead bryophytes and on plant debris.

S Hrj-TL

N He-Fi

F EH Ks EnL

Mayrhofer & Moberg 2002c, Resl et al. 2016

Rinodina mniaroea (Ach.) Körb. var. mniaroea

Rinodina mniaroea (Ach.) Körb. var. *mniaroea*, orth. var. (see Sheard et al, 2017, p. 644)

Lecidea mniaroeoides Nyl.

Terricolous, on dead bryophytes and on plant debris.

S Ög-TL

N Ak-Bu Te Ho MR-Fi

F V-EH EP PK Kn-Ks EnL InL

Mayrhofer & Moberg 2002c, Resl et al. 2016

Rinodina mniaroea (Ach.) Körb. var. mniaroeiza (Nyl.) H.Magn.

Rinodina mniaroea var. *mniaroeiza* (Nyl.) H.Magn, orth. var. (see Sheard et al, 2017, p. 644)

Rinodina mniaroeiza (Nyl.) Arnold, orth. var. (see Sheard et al, 2017, p. 644)

Lecanora mniaroeiza Nyl.

Rinodina mniaroeiza (Nyl.) Arnold

Terricolous, on dead bryophytes and on plant debris.

S Vsm Dlr-TL

N He-Fi

F V EH Ks KiL EnL

Mayrhofer & Moberg 2002c, Resl et al. 2016

Rinodina muscicola H.Magn.

On decaying bryophytes.

S -

N -

F EH (Hollola 1871 Vainio)

Mayrhofer & Moberg 2002c

Rinodina obnascens (Nyl.) H.Olivier

On rock on shores of lakes and streams.

S Jmt LyL

N -

F -

Mayrhofer & Poelt 1979, Nordin 2004a

Rinodina occulta (Körb.) Sheard

Rinodina diplocheila Vain. ex H.Magn., s. str.

Rinodina verrucarioides H.Magn.

Mainly on overhanging siliceous rock.

S Sk Sm-Nrk Vrm

N VA Ro Ho SF MR

F -

Mayrhofer & Moberg 2002c

Rinodina olivaceobrunnea C.W.Dodge & G.E.Baker

Rinodina arctica H.Magn., In Mayrhofer & Moberg regarded as synonymous with *Rinodina archaea*

Rinodina soredicola Degel.

On bryophytes, *Lobaria scrobiculata*, and plant debris, also on naked soil.

S Dlr Hrj Jmt LuL TL

N Op Ho ST NT Tr Fi

F EH Ks EnL InL

Mayrhofer & Moberg 2002c, Hermansson 2008a

Rinodina orculata Poelt & M.Steiner

On *Alnus incana*, *Salix* sp. and *Sorbus aucuparia*.

S -

N Op NT Fi

F -

Sheard et al. 2010

Rinodina oxydata (A.Massal.) A.Massal.

Rinodina biatorina Körb.

Rinodina discolor (Hepp) Arnold

On moist siliceous rocks.

S Sk-Upl

N Ak Vf ST No

F EH

Mayrhofer & Moberg 2002c

Rinodina parasitica H.Mayrhofer & Poelt

Rinodina milvina var. *amphibolitica* Räsänen

On crustose saxicolous lichens.

S Sk Jmt LyL LuL

N He Te MR No-Fi

F U PeP

Mayrhofer & Moberg 2002c

Rinodina pityrea Ropin & H.Mayrhofer

On nutrient-rich bark of deciduous trees.

S Sk Bl HI Bh Vg Upl

N -

F -

Mayrhofer & Moberg 2002c, Hemberg 2016

Rinodina plana H.Magn.

Not in F, N or S. Reports from N and S refer to *Rinodina laevigata*.

Rinodina polyspora Th.Fr.

Buellia polysporella (Nyl.) Arnold

Lecidea polysporella Nyl.

On bark of deciduous trees, e.g. *Salix*, *Sorbus*, *Fraxinus*, *Populus tremula*, *Alnus incana*.

S Gtl (Nrk) (Srm) (Upl)

N -

F U St EH PH PS

Mayrhofer & Moberg 2002c

Rinodina polysporoides Giralt & H.Mayrhofer

On *Alnus incana* and *Fraxinus excelsior*.

S -

N Te

F -

Klepsland 2020

Rinodina pyrina (Ach.) Arnold

On smooth bark and twigs of deciduous trees, sometimes on *Juniperus* and *Pinus*, or lignicolous.

S Sk-LyL

N Ak-No

F V U St-PS KP OP PeP SoL

Mayrhofer & Moberg 2002c

Rinodina rinodinoides (Anzi) H.Mayrhofer & Scheid.

Rinodina melanocarpa Müll.Arg.

Buellia rinodinoides Anzi

On siliceous rock.

S Öl Gtl Vg Ög Hrj Jmt

N Ho ST Fi

F -

Mayrhofer & Moberg 2002c

Rinodina roboris (Duf. ex Nyl.) Arnold

On trunks of *Corylus*, *Quercus* and *Ulmus*.

S -

N Ro

F -

Sheard et al. 2010

Rinodina roscida (Sommerf.) Arnold

On bryophytes and plant debris, sometimes on naked soil.

S Vrm Dlr Hrj Jmt LyL TL

N He Op Ho ST No-Fi

F PH Ks EnL

Mayrhofer & Moberg 2002c

Rinodina septentrionalis Malme

Rinodina dispersella (Vain.) Vain.

Rinodina hyperborea H.Magn.

Lecanora laevigata f. *dispersella* Vain.

Rinodina phaeostigmella H.Magn.

Rinodina subfusca H.Magn.

On bark, often twigs, of *Alnus incana*, *Salix*, *Sorbus*, *Populus*, *Betula*, *Picea*, *Juniperus* etc.

S Vrm Vsm Upl Dlr Hls-TL

N Ak Op AA Ho MR ST No-Fi

F V St-ES PH PS KP OP-InL

Mayrhofer & Moberg 2002c, Berglund & Andersson 2008

Rinodina sheardii Tønsberg

Mainly on *Populus tremula*, sometimes on other deciduous trees or *Picea*.

S Dlr

N Ak Op Ro-No

F -

Mayrhofer & Moberg 2002c

Rinodina sicula H.Mayrhofer & Poelt

Rinodina orculariopsis H.Mayrhofer

On siliceous rocks.

S Sk Bl Sm Bh Vg NrK Vrm

N -

F -

Mayrhofer & Moberg 2002c, Mayrhofer & Sheard 2007

Rinodina sophodes (Ach.) A.Massal.

On smooth bark, mainly twigs, of deciduous trees.

S Sk-Gst Hls Nb

N AA Ho Te-Tr

F A-PH PK-Kn PeP EnL InL

Mayrhofer & Moberg 2002c

Rinodina sophodioides H.Magn.

Not in F, N or S. Report from F refers to *Rinodina turfacea* v. *ecrustacea*.

Rinodina stictica Sheard & Tønsberg

On twigs of *Picea abies*.

S -

N Op (Nordre Land 1989 Holtan-Hartwig)

F -

Mayrhofer & Moberg 2002c

Rinodina subparieta (Nyl.) Zahlbr.

Rinodina degeliana Coppins

On bark of deciduous trees (often *Alnus incana*) and *Picea*.

S Vrm Dlr Hls Jmt LuL

N Øf-Bu Te-VA Ho SF ST-No

F St Kn

Mayrhofer & Moberg 2002c, Resl et al. 2016

Rinodina teichophila (Nyl.) Arnold

Rinodina arenaria auct., non (Hepp) Arnold

On sandstone, calcareous rock, etc.

S Sk Gtl Sm Hl Vg Ög Nrk Vrm

N Ak Ho

F -

Mayrhofer & Moberg 2002c

Rinodina tephrae (Nyl.) Herre

Rinodina arenaria (Hepp) Arnold

Lecanora badiella Nyl.

Rinodina badiella (Nyl.) Th.Fr.

Rinodina turfacea subsp. *arenaria* (Hepp) Th.Fr.

On siliceous rocks in damp sites.

S Vg Nrk Vrm Upl Hls Ång-Vb LyL-LuL

N ST Tr Fi

F EH PH-PK Kn OP Ks InL

Mayrhofer & Moberg 2002c

Rinodina terrestris Tomin

Rinodina mucronatula H.Magn.

On plant debris.

S -

N Op

F -

Mayrhofer & Moberg 2002c

Rinodina trachytica (A.Massal.) Bagl. & Carestia

Not in F, N or S. Report from S refers to *Rinodina oxydata*.

Rinodina trevisanii (Hepp) Körb.

Rinodina archaea f. *cinerascens* H.Magn.

Rinodina convexula H.Magn.

Rinodina laevigata f. *subathallina* H.Magn.

Rinodina lignaria H.Magn.

Rinodina norrlandica H.Magn.

Psora trevisanii Hepp

On bark of deciduous trees or *Juniperus*, sometimes on lignum.

S Sk-HI Vg-Dlr Hls-Vb LuL

N Ak Op No Fi

F V U EH PH PS Kn PeP

Magnusson 1947, Mayrhofer & Sheard 2007

Rinodina turfacea (Wahlenb.) Körb.

Rinodina orbata (Ach.) Vain.

Rinodina turfacea (Wahlenb.) Körb. var. *turfacea*

On decaying bryophytes and plant debris.

S Ög Vrm Mpd-TL

N Ho-Fi

F V EH PH-PK Kn PeP-InL

Mayrhofer & Moberg 2002c

Roccellographa sorediata (Sparrius et al.) Coppins & Friday

Peterjamesia sorediata Sparrius et al.

On shaded, overhanging rock.

S -

N Ho

F -

Frisch et al. 2020a

Romjularia lurida (Ach) Timdal

Lecidea lurida Ach.

Mycobilimbia lurida (Ach.) Hafellner & Türk

Psora lurida (Ach.) DC.

On calcareous soil.

S Sk-TL

N Øf-AA Ro-Fi

F EnL InL

Timdal 1984b, Hafellner & Türk 2001, Timdal 2007, Schneider 1980

Ropalospora atroumbrina (H.Magn.) S.Ekman

Fuscidea atroumbrina (H.Magn.) Poelt et al.

Lecidea atroumbrina H.Magn.

On siliceous, N-facing rocks, etc.

S Gtl Hl Bh Vg-Ång

N -

F V EP

By Fryday and Coppins (2012) regarded as a soresiate form of *Ropalospora lugubris*.

Magnusson 1935b, Degelius 1943c, Poelt & Vězda 1981

Ropalospora hibernica (P.James & Poelt) Tønsberg

Fuscidea hibernica P.James & Poelt

On more or less vertical, siliceous rocks.

S -

N Ro Ho MR NT No

F -

Poelt & Vězda 1981, Botnen 1984, Cannon et al. 1985, Coppins et al. 1992, Coppins et al. 1992, Ekman 1993, Jørgensen 1996

Ropalospora lugubris (Sommerf.) Poelt

Lecidea caudata Nyl.

Toninia caudata (Nyl.) Arnold

Lecidea funera Sommerf.

Bacidia lugubris (Sommerf.) Zahlbr.

Bilimbia lugubris (Sommerf.) Th.Fr.

Fuscidea lugubris (Sommerf.) P.James & Purvis

Lecidea lugubris Sommerf.

Toninia lugubris (Sommerf.) Th.Fr.

On siliceous rocks.

S Nrk-TL

N He-Bu Ho SF ST-Fi

F A V EH PK Ks KiL EnL InL

Fries 1874, Vainio 1934, Skjolddal 1983, Ekman 1993

Ropalospora viridis (Tønsberg) Tønsberg

Fuscidea viridis Tønsberg

On bark and lignum of deciduous trees and conifers.

S Sk-Ång Vb
N Øf-Bu Te-No
F V EH ES

Culberson et al. 1984, Muhr 1987a, Tønsberg 1992b, Ekman 1993

***Roselliniella atlantica Matzer & Hafellner**

On Xanthoparmelia verruculifera (thallus).

S Gtl (Burgsvik 1951 R. Santesson)

N -

F -

Matzer & Hafellner 1990

***Roselliniella cladoniae (Anzi) Matzer & Hafellner**

Adelococcus cladoniae (Anzi) Keissl.

On Cladonia arbuscula, C. crispata, C. rangiformis, C. ciliata v. tenuis, C. rangiferina (thallus).

S Sk ÖI Gtl Dls Vrm Upl

N -

F U EH

Santesson 1949, Matzer & Hafellner 1990, Matzer & Pelzmann 1991, Santesson 1994b, Zhurbenko & Pino-Bodas 2017

***Roselliniella pannariae Matzer & Hafellner**

On Fuscopannaria confusa (thallus).

S -

N NT (Snåsa 2002 A. Zavarzin)

F -

Matzer & Hafellner 1990, Zavarzin & Alstrup 2005

***Roselliniopsis gelidaria (Mudd) Matzer**

Didymosphaeria gelidarium (Mudd) A.L.Sm.

Polycoccum gelidarium (Mudd) D.Hawksw.

On Placopsis gelida, P. lambii (thallus).

S -

N No

F -

Hawksworth & Diederich 1988, Matzer 1993

***Roselliniopsis groedensis (Zopf) Matzer & Hafellner**

Adelococcus groedensis (Zopf) Keissl.

On Pertusaria corallina (thallus).

S -

N Ho (Etne 1984 Hafellner & Ochsenhofer)

F -

Matzer & Hafellner 1990, Hafellner 1993b, Matzer 1993

* **Roselliniopsis ventosa (Rostr.) Alstrup**

Synaptospora tartaricola auct., non (Nyl.) Cain

Sphaeria ventosa Rostr.

On *Placopsis lambii* (thallus).

S Vg (Angered 1932 Stenholm)

N -

F -

Rostrup 1870, Alstrup et al. 1994

* **Rosellinula frustulosae (Vouaux) R.Sant.**

Roselliniella frustulosae (Vouaux) Hafellner

On *Lecanora argopholis* (thallus).

S -

N Op

F -

Hafellner 1985a, Øvstedal 1986, Santesson 1988

* **Rosellinula haplospora (Th.Fr. & Almq. ex Th.Fr.) R.Sant.**

Muellerella haplospora Th.Fr.

Rosellinella haplospora (Th.Fr.) Hafellner

On *Aspicilia cinerea*, *A. caesiocinerea*, *Bellemeria alpina*, *B. cinereorufescens* (thallus).

S Vg Hrj LyL TL

N Op Tr

F -

Mayrhofer & Leuckert 1985, Triebel 1989, Hafellner 1993b, Alstrup et al. 2008

Rostania ceranisca (Nyl.) Otálora et al.

Collema arcticum Lyngé

Collema ceraniscum Nyl.

On plant debris., especially on calcareous and slightly moist ground.

S Hrj-TL

N Op Ho ST No-Fi

F Ks EnL

Degelius 1954, Jørgensen 2007c, Ahti et al. 2012, Otálora et al. 2014

Rostania occultata (Bagl.) Otálora et al.

Collema coccophylloides Hepp ex Müll.Arg.

Collema occultatum Bagl.

Collema occultatum Bagl. var. *occultatum*

Collema occultatum var. *populinum* (Th.Fr.) Degel.

Leptogium occultatum (Bagl.) Zahlbr.

Collema quadratum J.Lahm ex Körb.

Leptogium quadratum (J.Lahm ex Körb.) Nyl. ex Norrl.

On more or less smooth bark of *Salix*, *Sorbus*, *Alnus incana*, *Fraxinus*, *Populus tremula* etc.

S (Sk) Sm-TL

N Ak He Bu Te-VA SF ST-Fi

F V-ES PH-PK Kn-Ks SoL InL

Degelius 1954, Gilenstam 1969, Arup et al. 1997, Thor & Arvidsson 1999, Jørgensen 2007c, Ahti et al. 2012, Otalora et al. 2014

Rufoplaca arenaria (Pers.) Arup et al.

Caloplaca arenaria (Pers.) Müll.Arg.

Caloplaca lamprocheila (DC.) Flagey

On stone, especially sun-exposed siliceous rocks.

S Sk-TL

N Op Ho-ST

F V U St-ES Ks EnL

Magnusson 1944, Hansen et al. 1987, Arup et al. 2013

Rufoplaca oxfordensis (Fink) Arup et al.

Caloplaca oxfordensis Fink in J.Hedrick

Not i F, N or S. Earlier reports refer to *Rufoplaca subpallida*.

Arup 2011a, Arup et al. 2013

Rufoplaca scotoplaca (Nyl.) Arup et al.

Caloplaca caesiorufa auct.

Caloplaca scotoplaca (Nyl.) H.Magn.

On siliceous rocks.

S Sk-Upl

N Øf Ak Bu Vf Te Ro Ho ST

F -

Magnusson 1944, Arup 2011a, Arup et al. 2013

Rufoplaca subpallida (H.Magn.) Arup et al.

Caloplaca scotoplaca f. *depauperata* H.Magn.

Caloplaca subpallida H.Magn.

On siliceous rocks.

S Sk-Dlr

N Øf Op Bu Ro Ho ST? No

F V

Is not a syn. of *Caloplaca arenaria*.

Magnusson 1945b, Hermann et al. 1973, Wetmore 1996, Pykälä 2008, Arup et al. 2013

Rufoplaca tristiuscula (H.Magn.) Arup et al.

Caloplaca tristiuscula H.Magn.

On siliceous rocks.

S Hl Bh Vg
N Te AA VA
F -

Magnusson 1944, Arup 2011a, Arup et al. 2013

Rusavskia elegans (Link) S.Y.Kondr. & Kärnefelt

Xanthoria ectanoides sensu Hakulinen

Caloplaca elegans (Link) Th.Fr.

Placodium elegans (Link) DC.

Xanthoria elegans (Link) Th.Fr.

Caloplaca tegularis (Ehrh.) Sandst.

On basic rock or siliceous rock manured by birds.

S Sk-TL (rare in southern part)
N Øf-Bu Te AA Ro-Fi
F A-EK EH ES PH PK Kn-InL

Poelt 1954, Hakulinen 1966, Arup et al. 2013

Rusavskia sorediata (Vain.) S.Y.Kondr. & Kärnefelt

Placodium granulosum (Schaer.) Vain.

Xanthoria scandinavica B.de Lesd.

Caloplaca sorediata (Vain.) Du Rietz

Xanthoria sorediata (Vain.) Poelt

On calcareous rock, often on vertical surfaces.

S Nrk-TL (rare in southern part)
N Øf-Vf Ho SF ST-Fi
F A V PK PeP-InL

Poelt 1954, Hakulinen 1966, Arup et al. 2013

Sagedia mastrucata (Wahlenb.) A.Nordin et al.

Lecanora lyckselensis H.Magn.

Aspicilia mastrucata (Wahlenb.) Th.Fr.

Lecanora mastrucata (Wahlenb.) Ach.

Aspicilia subreagens (H.Magn.) R.Sant.

Lecanora subreagens H.Magn.

On siliceous rocks.

S Htj-TL
N ST NT Tr Fi
F A PeP EnL InL

Fries 1871, Magnusson 1946, Elvebakk & Bjerke 2006, Nordin et al. 2007a

Sagedia simoënsis (Räsänen) A.Nordin et al.

Lecanora bahusiensis H.Magn.

Lecanora isidiata (H.Magn.) H.Magn.

Aspicilia montana (H.Magn.) Crevelde

Lecanora montana H.Magn.

Aspicilia protuberans Räsänen

Aspicilia simoënsis Räsänen

Lecanora simoënsis (Räsänen) Zahlbr

Lecanora simoënsis var. *isidiata* H.Magn.

Lecanora variegatula H.Magn.

On siliceous rocks, especially in sun-exposed places.

S Sk-Upl Vb

N VA Ro SF No

F V EP PeP EnL InL

Magnusson 1949a, Degelius 1982, Skjolddal 1983, Nordin et al. 2007a, Magnusson 1930b

Sagedia zonata Ach.

Aspicilia curvabilis (Nyl.) Hue
Lecanora curvabilis Nyl.
Lecanora dalecarlica H.Magn.
Aspicilia haerjedalica (H.Magn.) Creveld
Lecanora haerjedalica H.Magn.
Aspicilia inconspicua (H.Magn.) Räsänen, comb. ined.
Lecanora inconspicua H.Magn.
Aspicilia litorea (H.Magn.) Räsänen
Lecanora litorea H.Magn.
Aspicilia malmeana (H.Magn.) Ozenda & Clauzade
Lecanora malmeana H.Magn.
Aspicilia obscurascens (H.Magn.) Clauzade & Rondon
Lecanora obscurascens H.Magn.
Aspicilia obscurata (Fr.) Arnold
Lecanora obscurata (Fr.) Nyl.
Aspicilia pleiocarpa (H.Magn.) Oxner
Lecanora pleiocarpa H.Magn.
Aspicilia subarctica (H.Magn.) Creveld
Lecanora subarctica H.Magn.
Lecanora tenebrica H.Magn.
Aspicilia tromsoeënsis (H.Magn.) Räsänen
Lecanora tromsoeënsis H.Magn.
Aspicilia waldrastensis (H.Magn.) Clauzade & Rondon
Lecanora waldrastensis H.Magn.
Lecanora xyloxena H.Magn.
Aspicilia zonata (Ach.) R.Sant.
Lecanora zonata (Ach.) H.Magn, non Bagl. 1871

On siliceous rock.

S Sm Vrm UpI Dlr Gst Hls Mpd Jmt LyL LuL TL
N Ak Op Ro Ho MR ST No Tr Fi
F A U St EH EP PK PeP KiL? InL

Magnusson 1939a, Magnusson 1950b, Nordin et al. 2007a

***Sagediopsis aquatica (Stein) Triebel**

Belonia aquatica (Stein) Riedl
Gongylia aquatica Stein
Leptorhaphis koerberi Stein

On *Koerberiella wimmeriana* (thallus).

S LyL
N Tr
F -

Triebel 1989, Rambold et al. 1990, Alstrup et al. 2008

***Sagediopsis barbara (Th.Fr.) R.Sant. & Triebel**

Segestria barbara Th.Fr.

Ophiobolus barbarus (Th.Fr.) Keissl.

Gongylia nadvornikii Servit

Gongylia norvegica H.Magn., nom. nud.

Leptorhaphis steinii Körb. ex Stein

On *Porpidia rugosa* (thallus).

S Vg Vrm Dlr LyL LuL

N Ak Ro-SF NT No

F -

Magnusson 1946, Triebel 1989

***Sagediopsis campsteriana (Linds.) D.Hawksw. & R.Sant.**

Verrucaria campsteriana Linds.

Metasphaeria tartarina (Nyl.) Keissl.

Sagediopsis tartarina (Nyl.) Vain.

Verrucaria tartarina Nyl.

Sphaeria verrucarioides Norman, nom. nud.

On *Ochrolechia frigida* (thallus).

S Hrj Jmt Nb ÅsL LuL TL

N Op Ho ST Tr Fi

F InL

Magnusson 1952a, Hawksworth 1975a, Triebel 1989, Alstrup & Hawksworth 1990

***Sagediopsis fissurisedens Hafellner**

On *Aspilidea myrinii* (thallus).

S Hrj Jmt ÅsL

N He SF No

F -

Hafellner 1993b, Santesson 1994b

***Sagediopsis lomnitzensis (Stein) Orange**

Arthopyrenia lomnitzensis Stein

On *Hymenelia epulotica*, *Ionaspis odora* (thallus).

S Hrj Jmt LyL TL

N SF

F -

Nordin 2002b, Orange 2002b

Sagiolechia monoseptata Ertz & Tønsberg

On shaded siliceous rock.

S -

N No

F -

Ertz & Tønsberg 2021

Sagiolechia protuberans (Ach.) A.Massal.

Gyalecta protuberans (Ach.) Anzi

On calcareous rocks, sometimes on calcareous schist, etc.

S ÖI Gtl Vg-TL

N Ak Ho No-Fi

F V U EnL

Lettau 1937b, Vězda 1967a

Santessoniella arctophila (Th.Fr.) Henssen

Pannaria arctophila Th.Fr.

Parmeliella arctophila (Th.Fr.) Malme

Pannaria decifiens Nyl.

Among bryophytes on the ground; alpine.

S Jmt-TL

N Ho SF ST Tr Fi

F Kn EnL

Magnusson 1938, Magnusson 1952a, Jørgensen 1978, Henssen 1997, Jørgensen 2007g, Ahti et al. 2012

Sarcogyne algoviae H.Magn.

On soft, calcareous schist in alpine“subalpine habitats.

S Htrj Jmt LuL TL

N Op No Tr

F InL

Earlier report from Finnmark refers to *Sarcogyne urceolata*.

Magnusson 1935c, Westberg et al. 2015a, Svensson et al. 2017b

Sarcogyne clavus (DC.) Kremp.

Biatorella clavus (DC.) Th.Fr.

Sarcogyne eucarpa (Nyl.) Hellb.

Stereopeltis macrocarpa De Not.

On siliceous rocks, on seepages, overhangs, etc.

S Sk-Upl Dlr Hls Ång Jmt LyL PL LuL?

N Øf-Op Te AA Ro-MR No Tr

F V EH PS PK Kn Ks InL

Fries 1874, Magnusson 1935c

Sarcogyne cyclocarpa (Anzi) J.Steiner

Lithographa cyclocarpa Anzi

Polysporina cyclocarpa (Anzi) Vězda

On calcareous rocks.

S -

N He Bu

F -

Vězda 1978a, Poelt & Vězda 1981

Sarcogyne distinguenda Th.Fr.

Sarcogyne fallax H.Magn.

Biatorella platycarpoides, sensu Th.Fr., p.p. non *Sarcogyne platycarpoides* Anzi

Sarcogyne platycarpoides Anzi

On calcareous rocks, calcareous schist, etc.

S Dls Jmt

N Ak He Bu VA NT Fi

F V

Magnusson 1927, Magnusson 1935c, Magnusson 1939b, Botnen & Tønsberg 1988, Karlsson 1998, Thor & Arvidsson 1999

Sarcogyne hypophaea (Nyl.) Arnold

Lecanora hypophaea Nyl.

Biatorella privigna auct.

Sarcogyne privigna auct.

On acidic or calcareous rocks.

S Sk-Hrj LyL

N Ak Ho ST-Tr

F V U EH PK

Magnusson 1935c, Karlsson 1998, Knudsen et al. 2013

Sarcogyne hypophaeoides Vain. ex H.Magn.

Lecanora hypophaea, sensu Vainio 1870, non Nyl. 1870

On granitic rock.

S Bh Dls Vrm Vsm Up1 Dlr Gst LyL PL

N Ro

F EH

Magnusson 1935c, Westberg et al. 2015a

Sarcogyne lapponica (Ach. ex Schaer.) K.Knudsen & Kocourk.

Acarospora lapponica (Ach. ex Schaer.) Th.Fr.

Biatorella lapponica (Ach. ex Schaer.) Almq.

Polysporina lapponica (Ach. ex Schaer.) Degel.

Acarospora sermanderi H.Magn.

Acarospora sordida Wedd.

Sarcogyne sphaerospora J.Steiner

Acarospora tromsoeënsis Norman

On rock or lignum, often in exposed sites; starting as lichenicolous on other lichens.

S Vg TL

N Tr

F U

Magnusson 1929a, Magnusson 1935c, Degelius 1961, Degelius 1986, Arup & Ekman 1991b, Rambold & Triebel 1992, Knudsen & Kocourková 2008

Sarcogyne regularis Körb.

Sarcogyne pruinosa auct.

Sarcogyne pruinosa var. *psimmythina* (Nyl.) H.Magn.

Lecanora psimmythina Nyl.

On calcareous rocks, calcareous schist, etc.

S Sk-TL

N Øf Ak Op Bu Ho ST-Fi

F V U KP EnL

Magnusson 1935c, Karlsson 1998

Sarcogyne urceolata Anzi

Biatorella urceolata (Anzi) J.Steiner

Polysporina urceolata (Anzi) Brodo

Sarcogyne urceolata var. *herpes* Norman

On calcareous rocks.

S Jmt

N Fi

F -

Magnusson 1935c, Santesson 1984a, Ahti et al. 1987

***Sarcopyrenia gibba (Nyl.) Nyl.**

Navarro-Rosinés & Hladun 1990, Thor 1993a

***Sarcopyrenia gibba (Nyl.) Nyl. var. geisleri Beckh. ex Körb.**

On concrete.

S Vg (Göteborg 1992 G. Thor)

N -

F -

Navarro-Rosinés & Hladun 1990, Thor 1993a

Sarcosagium campestre (Fr.) Poetsch & Schied.

Biatorella campestris (Fr.) Almq.

On soil, dead bryophytes and lichens, decaying wood, etc.

S Sk-TL

N Op NT

F V ES PS InL

Fries 1874, Magnusson 1935c, Poelt & Vězda 1977, Holien & Hilmo 1991, Gilbert 2004

Schadonia alpina Körb.

The reported specimen (in C) is too scanty for a conclusive determination.

Alstrup 1986b

Schadonia fecunda (Th.Fr.) Vězda & Poelt

Lopadium fecundum Th.Fr.

Lopadium sociale Körb.

On bryophytes and plant debris, especially in the alpine and subalpine regions.

S Hrj-TL

N ST Fi

F -

Fries 1874, Vainio 1922

Schaereria cinereorufa (Schaer.) Th.Fr.

Lecidea cinereorufa Schaer.

Psora cinereorufa (Schaer.) Hellb.

On siliceous, often high and steep rocks.

S BI-TL

N Ak Op Bu Te AA Ro-MR NT-Tr Fi

F V U St EH PH Kn Ks EnL InL

Poelt & Vězda 1977, Hafellner 1984, Schneider 1980

Schaereria corticola Muhr & Tønsberg

On bark of deciduous trees, often *Alnus incana*.

S Sm Vrm Dlr Jmt Vb LuL

N Ak Bu Vf AA Ro-Tr

F -

Tønsberg 1992b, Gustavsson 1995

Schaereria fabispora Hertel & Zürn

On granitic rock.

S -

N No (Vega 1980 Degelius).

F -

Hertel & Zürn 1986

Schaereria fuscocinerea (Nyl.) Clauzade & Cl.Roux

Lecidea atrocinerea (Schaer.) Vain.

Schaereria endocyanea (Stirt.) Hertel & Gotth. Schneid.

Lecidea epiiodiza Nyl.

Lecidea fuscocinerea Nyl.

Lecidea griseoatra auct.

Lecidea lygaeiza Vain.

Lecidea rhizocarpoides Malme

Lecidea somphotera (Vain.) H.Olivier

Lecidea tenebrosa Flot.

Lecidea tenebrosa var. *lygaeoides* Vain.

Schaereria tenebrosa (Flot.) Hertel & Poelt in Hawksworth P.James & Coppins

On siliceous rocks.

S Sk-TL

N Øf-ST No-Fi

F A-U St EH EP PK Kn-InL

Some authors regard *Schaereria endocyanea* as a distinct species.

Hertel 1977a, Hertel 1981b, Rambold 1989, Hertel & Rambold 1990, Svensson & Owe-Larsson 2019

Schaereria parasemella (Nyl.) Lumbsch

Hafellnera parasemella (Nyl.) Houmeau & Cl.Roux

Lecidea parasemella Nyl.

On bryophytes, plant debris, etc. (on *Biatora vernalis*?).

S LuL TL

N Te

F EnL

Magnusson 1952a, Houmeau & Roux 1982, Triebel 1989, Lumbsch 1997

Schaereria serenior (Vain.) Vitik.

Lecidea serenior (Vain.) Vain., nom. illeg.

Lecidea tenebrosa subsp. *somphotera* var. *serenior* Vain.

On siliceous rocks.

S LyL (Tärna 1924 Magnusson)

N -

F InL

Vainio 1934, Magnusson 1946, Vitikainen et al. 1997, Santesson et al. 2004

Schismatomma graphidioides (Leight.) Zahlbr.

Enterographa graphidioides (Leight.) Almb.

Enterographa rimata (Nyl.) Zwackh, nom. illeg.

Platygrapha rimata Flot. ex Nyl., nom. illeg.

Schismatomma rimatum (Nyl.) Almq., nom. illeg.

On dry and hard bark of *Fagus*, *Fraxinus*, *Quercus* and *Populus*.

S (Sk) Bl Gtl Bh

N -

F -

Almborn 1948, Coppins & James 1979c, Arup et al. 1997, Thor & Arvidsson 1999, Johansson et al. 2000

Schismatomma pericleum (Ach.) Branth & Rostr.

Verrucaria abietina Humb.

Schismatomma abietinum (Humb.) Almq, non (Ach.) A.Massal

Schismatomma dolosum (Fr.) Flot. & Körb.

Lecanora periclea Ach.

Schismatomma pericleum var. *farinosum* (Stenh.) Lettau

On bark, rarely lignum, of *Quercus*, *Picea*, *Juniperus*, etc.

S (Sk) Bl-Jmt LyL LuL

N He-Te MR-NT

F A-EH PH-Kn PeP

Botnen & Tønsberg 1988, Arup et al. 1997, Thor & Arvidsson 1999

Schismatomma umbrinum (Coppins & P.James) P.M.Jørg. & Tønsberg

Lecanactis umbrina Coppins & P.James

On dry siliceous rock under overhangs, rarely on trees.

S Gtl Nrk Upl

N Bu Te-No

F -

Coppins & James 1979b, Tønsberg 1983, Muhr 1987b, Jørgensen & Tønsberg 1988, Tønsberg 1992b, Thor & Arvidsson 1999, Hagström 2008

Schizotrema quercicola (Coppins & P.James) Ertz, Frisch & Sanderson

Schismatomma quercicola Coppins & P.James

On *Pinus sylvestris* in oceanic, coastal pine forests.

S -

N Ho SF

F -

Ertz et al. 2019

Schizoxylon albescens Gilenstam et al.

On trunks of *Populus tremula*.

S Vsm Dlr Hls Ång Vb Nb LyL LuL

N Tr

F -

Wedin et al. 2006

***Sclerococcum aeruginosum (Holien & Ihlen) Ertz & Diederich**

Dactylospora aeruginosa Holien & Ihlen

On *Biatora efflorescens*, *Japewia tornoenensis*, *Lopadium disciforme*, *Micarea prasina* (thallus). Also saprobic on bark and wood.

S -

N Ho MR-No

F -

Ihlen et al. 2004a, Diederich et al. 2018

***Sclerococcum amygdalariae (Triebel) Ertz & Diederich**

Dactylospora amygdalariae Triebel

On *Amygdalaria consentiens*, *A. elegantior*, *A. panaeola*, *A. pelobotryon* (thallus).

S Vg-TL

N Ak? Op Ho MR-Fi

F PeP EnL InL

Triebel 1989, Diederich et al. 2018

***Sclerococcum athallinum (Müll.Arg.) Ertz & Diederich**

Dactylospora athallina (Müll.Arg.) Hafellner

Karschia athallina (Müll.Arg.) Vouaux

Buellia peculiaris H.Magn.

Abrothallus placophyllus Anzi

Leciographa sphyridii (Stein) Lettau

On *Baeomyces carneus*, *B. rufus* (thallus).

S Vrm Vsm Jmt

N Ak Ho

F -

Magnusson 1948c, Hafellner 1979, Muhr 1987b, Ihlen 1998, Berglund & Andersson 2008, Diederich et al. 2018

***Sclerococcum attendendum (Nyl.) Ertz & Diederich**

Dactylospora attendenda (Nyl.) Arnold

Leciographa attendenda (Nyl.) Arnold

On *Pilophorus cereolus*, *P. dovrensis*, *Icmadophila ericetorum*, *Amygdalaria consentiens*, *A. pelobotryon*, *Porpidia melinodes*, *P. ochrolemma* (thallus).

S Bh Nrk Vrm Dlr-TL

N Ak-Bu Te Ho NT No Fi

F EH Ks KiL EnL

Triebel 1989, Ihlen 1998, Diederich et al. 2018

***Sclerococcum australe (Triebel & Hertel) Ertz & Diederich**

Dactylospora australis Triebel & Hertel

On *Porpidia contraponenda*, *P. macrocarpa* (thallus).

S LyL TL

N -

F -

Triebel 1989, Nordin 2002b, Diederich et al. 2018

***Sclerococcum boreale (Holien & Ihlen) Ertz & Diederich**

Dactylospora borealis Holien & Ihlen

On *Japewia tornoenis*, *Loxospora elatina*, *Mycoblastus affinis*, *M. sanguinarius*, *Ochrolechia androgyna* (thallus, apothecia).

S Jmt ÅsL

N ST NT No

F -

Anamorph a *Lichenodiplis lecanorae* form.

Ihlen et al. 2004a, Diederich et al. 2018

***Sclerococcum deminutum (Th.Fr.) Ertz & Diederich**

Dactylospora deminuta (Th.Fr.) Triebel

Celidium lopadii auct., non Anzi

Leciographa triplicantis (Vain.) Räsänen

Buellia urceolata var. *deminuta* (Th.Fr.) Th. Fr

Buellia urceolata var. *majuscula* Th.Fr.

On *Biatora cuprea*, *B. vernalis*, *Gyalecta peziza*, *Lecanora epibryon*, *Lopadium pezizoides*, *L. corallinum*, *Bacidia rubella*, *Mycobilimbia berengeriana*, *M. carneoalbida*, *M. tetramera*, *Amygdalaria consentiens*, *Micarea* sp., *Protopannaria pezizoides*, *Pannaria* sp. (thallus).

S Vg Vsm Dlr-Hls Hrj-TL

N Ak Ho ST NT Tr Fi

F V PK Ks EnL

Fries 1860, Santesson 1984b, Triebel 1989, Berglund & Andersson 2008, Diederich et al. 2018

***Sclerococcum frigidum (Hafellner) Ertz & Diederich**

Dactylospora frigida Hafellner

On *Brigantiaea fuscolutea* (thallus).

S Jmt LyL

N No Tr Fi

F -

Hafellner 1985b, Alstrup et al. 2008, Diederich et al. 2018

***Sclerococcum homoclinellum (Nyl.) Ertz & Diederich**

Dactylospora homoclinella (Nyl.) Hafellner

Karschia homoclinella (Nyl.) Arnold

Karschia pertusariae in Keissler 1923, specimen from N Tr.

Buellia procervula Norman, nom. nud.

On *Lecanora campestris*, *L. cenisia*, *Protoparmeliopsis muralis*, *Tephromela atra* (thallus).

S Vg Ög Upl Vb LyL LuL TL

N Tr

F V ES

Hafellner 1979, Diederich et al. 2018

***Sclerococcum leuckertii Diederich & P.Scholz**

On *Buellia aethalea* (thallus).

S Bh Vg NrK Srm

N -

F -

Santesson 1994b, Diederich & Scholz 1995

***Sclerococcum lobariellum (Nyl.) Ertz & Diederich**

Dactylospora lobariella (Nyl.) Hafellner

Abrothallus lobariellus (Nyl.) Zopf

Karschia ricasoliae Vouaux

Abrothallus viduus Körb. ex Stein

On *Lobaria pulmonaria* (thallus).

S Gtl Sm Upl LuL

N AA Ho ST No

F -

Hafellner 1979, Karström & Thor 1991, Diederich et al. 2018, Frisch et al. 2020a

***Sclerococcum microsporum (Etayo) Ertz & Diederich**

Dactylospora microspora Etayo

On *Megalaria pulverea* (thallus).

S -

N SF MR ST NT

F -

Etayo 1991, Holien 2001, Diederich et al. 2018, Frisch et al. 2020a

***Sclerococcum parasiticum (Flörke) Ertz & Diederich**

Karschia dispersa auct.

Leciographa dispersa (Tul.) Rehm, uncertain synonym

Dactylospora parasitica (Flörke) Zopf

Buellia thioconis Norman

On *Pertusaria* spp., *Ochrolechia pallescens*, *O. subviridis*, *O. turneri*, *O. upsaliensis* (thallus).

S Sk-TL

N MR ST No Tr?

F OP

Santesson 1960, Hafellner 1979, Diederich et al. 2018

***Sclerococcum parellarium (Nyl.) Ertz & Diederich**

Dactylospora parellaria (Nyl.) Arnold

On *Ochrolechia parella* (thallus).

S Sk (Kullen 1947 R. Santesson)

N -

F -

Clauzade et al. 1989, Diederich et al. 2018

***Sclerococcum pertusariicola (Tuck.) Ertz & Diederich**

Dactylospora pertusariicola (Willey ex Tuck.) Hafellner

On *Pertusaria aspergilla* (thallus).

S Bh (Näverkärr 1983 S. Wall).

N -

F -

Hafellner 1979, Arvidsson et al. 1988, Diederich et al. 2018

***Sclerococcum protothallinum (Anzi) Ertz & Diederich**

Dactylospora protothallina (Anzi) Hafellner

Karschia protothallina (Anzi) Körb.

On *Pannaria praetermissa*, ?*Parmeliella* sp. (thallus).

S Hrj LyL TL

N -

F Ks

Magnusson 1952a, Hafellner 1979, Diederich et al. 2018

***Sclerococcum purpurascens (Triebel) Ertz & Diederich**

Dactylospora purpurascens Triebel

On *Amygdalaria consentiens*, *A. panaeola*, *A. pelobotryon*, *Pilophorus dovrensis*, *Porpidia rugosa* (thallus).

S Nrk Jmt LyL TL

N Ak Ho ST Tr Fi

F -

Triebel 1989, Diederich et al. 2018, Diederich et al. 2018

***Sclerococcum rhyparizae (Arnold) Ertz & Diederich**

Dactylospora rhyparizae Arnold

Leciographa rhyparizae (Arnold) Rehm

On *Bryodina rhypariza* (thallus, apothecia).

S Jmt LyL

N Op ST

F -

The specimen from N Ak called *Leciographa rhyparizae* (von Keissler 1923, p. 21) is *Dactylospora attendenda* on *Amygdalaria* sp.

Triebel 1989, Poelt & Obermayer 1991, Diederich et al. 2018

***Sclerococcum rimulicola (Müll.Arg.) Ertz & Diederich**

Dactylospora rimulicola (Müll.Arg.) Hafellner

On thallus of *Amygdalaria panaeola*, *Lecanora* spp., *Pertusaria* sp. and *Pleopsidium chlorophanum*.

S TL

N -

F -

Ihlen & Wedin 2008, Diederich et al. 2018

+Sclerococcum rubiginosum (Hafellner) Olariaga et al.

Dactylospora rubiginosa Hafellner

On wood.

S -

N -

F St

Hafellner 1979

***Sclerococcum saxatile (Schaer.) Ertz & Diederich**

Lecidea protrusa Fr.

Buellia saxatilis (Schaer.) Körb.

Dactylospora saxatilis (Schaer.) Hafellner

Karschia saxatilis (Schaer.)Rehm

On saxicolous Pertusaria and Ochrolechia spp. (thallus).

S Upl Ång Hrj Jmt

N Ak Op Bu Ho-ST

F KiL

Fries 1874, Hafellner 1979, Øvstedal 1986, Santesson 1994a, Diederich et al. 2018

***Sclerococcum sphaerale (Ach.) Fr.**

Arthonia efflorescens Räsänen

Spilomium lichenicola (Linds.) Vouaux

Lecanora micraspis Sommerf.

Coniothecium sphaerale (Ach.) Keissl.

On Pertusaria corallina (thallus) on rocks.

S Sk-LyL

N Ho ST No

F A EH PH

Sommerfelt 1826, Hawksworth 1975b, Hawksworth 1979a, Hawksworth & Jones 1981, Santesson 1986

***Sclerococcum urceolatum (Th.Fr.) Ertz & Diederich**

Lecidea sociella Nyl.

Dactylospora urceolata (Th.Fr.) Arnold

Leciographa urceolata (Th.Fr.) Körb.

On Protothelenella sphinctrinoides, Gyalecta peziza (thallus).

S Hls Jmt TL

N ST Tr Fi

F V KiL

Fries 1860, Triebel 1989, Alstrup et al. 2008, Diederich et al. 2018

***Sclerococcum verrucisporum Alstrup**

On Bellemerea diamarta (thallus).

S Gst TL

N Op

F -

Alstrup 1993

Sclerophora amabilis (Tibell) Tibell

Coniocybe amabilis Tibell

On bark and lignum of old deciduous trees.

S Sk Bl Sm HI Dls Vg Upl

N Op MR-No

F -

Tibell 1984a, Gustavsson 1995, Holien 1998a, Thor & Arvidsson 1999, Tibell 1999a

Sclerophora coniophaea (Norman) J.Mattsson & Middelb.

Coniocybe coniophaea Norman

Coniocybe obscuripes Nyl.

In the south on rough bark of old, deciduous trees (often *Quercus*), in the north on conifers (mainly *Picea*) and *Betula pubescens*.

S Sk ÖL Sm Vg Ög Srm Vrm-Hls Ång Jmt ÅsL-TL

N Ak-AA MR-Fi

F V-EH PK-OP Ks KiL InL

Norman 1868, Tibell 1978d, Middelborg & Mattsson 1987, Thor & Arvidsson 1999, Tibell 1999a, Skarp 1999

Sclerophora farinacea (Chevall.) Chevall.

Coniocybe farinacea (Chevall.) Nyl.

Coniocybe nivea var. *farinacea* (Chevall.) Sydow

On bark of old deciduous trees.

S (Sk) Vg Ög Srm Vsm UpL Jmt

N Ak Bu-Te SF MR NT

F A

Tibell 1973, Tibell 1978d, Tibell 1984a, Middelborg & Mattsson 1987, Arup et al. 1997, Thor & Arvidsson 1999, Tibell 1999a

Sclerophora pallida (Pers.) Y.J.Yao & Spooner

Coniocybe curta H.Magn.

Coniocybe nivea (Hoffm.) Arnold, non Tuck. & Mont

Sclerophora nivea (Hoffm.) Tibell

Trichia nivea Hoffm., (1790) non *Trichia nivea* O.F.Müll (1778)

On bark of old deciduous trees.

S Sk Gtl Sm Bh-Gst

N Øf-NT

F A-U EH

Magnusson 1932a, Tibell 1978d, Tibell 1984a, Middelborg & Mattsson 1987, Tibell 1999a

Sclerophora peronella (Ach.) Tibell

Coniocybe hyalinella Nyl.

Roesleria hyalinella (Nyl.) Sacc.

Coniocybe peronella (Ach.) Tibell

On bark and lignum of old deciduous trees.

S Sk Sm Bh-Ög Srm-Gst Mpd Jmt

N Øf Ak Op Vf Te Ro-No

F A-U EH

Tibell 1978d, Tibell 1984a, Middelborg & Mattsson 1987, Arup et al. 1997, Thor & Arvidsson 1999, Tibell 1999a

Scoliosporum chlorococcum (Graewe ex Stenh.) Vězda

Bacidia chlorococca (Graewe ex Stenh.) Lettau

Bacidia interspersula (Nyl. in Brenner) Zahlbr.

On bark and lignum of deciduous trees.

S Sk-LuL

N Øf-He Bu Vf AA Ro Ho ST-No Fi

F A-Ks SoL InL

Magnusson 1946, Ahti & Vitikainen 1974, Vězda 1978a

Scoliciosporum curvatum Sérus.

Lilliputeana curvata Sérus., nom. nud.

On needles and twigs of *Picea* and *Abies*.

S Sk ÖI Bh Vg Ög Srm Upl

N Øf Ak VA Ho ST

F V

Sérusiaux 1989, Tønberg 1992a, Sérusiaux 1993, Sérusiaux 1993, Moberg 1996

Scoliciosporum gallurae Vězda & Poelt

Corticolous.

S -

N Ho ST

F V

Nimis & Poelt 1987, Tønberg 1992b, Jørgensen 1996, Pykälä et al. 2017c

Scoliciosporum intrusum (Th.Fr.) Hafellner

Lecidea contrusa Vain., nom. illeg.

Carbonea intrusa (Th.Fr.) Rambold & Triebel

Catillaria intrusa (Th.Fr.) Th.Fr.

Lecidea intrusa Th.Fr.

Micarea intrusa (Th.Fr.) Coppins & H.Kilias

Lecidea melaphana Nyl.

On siliceous rocks on or among other lichens (*Calvitimela melaleuca*, *Amygdalaria panaeola*, *Rhizocarpon geographicum*, etc.).

S HI-TL

N Ak AA Ro SF No Tr Fi

F V U EH PK InL

Magnusson 1946, Magnusson 1952a, Hertel 1970a, Kilias 1981, Hertel 1991, Rambold & Triebel 1992, Hafellner 2004c, Elvebakk & Bjerke 2006, Hafellner 2006

Scoliciosporum ophiosporum (Hellb.) Hav.

Bacidia kuopioënsis (Vain.) Vain.

Lecidea kuopioënsis Vain.

Bacidia ophiospora (Hellb.) Th.Fr.

Scalidium ophiosporum Hellb.

Bacidia podicellata Hellb.

On siliceous rocks (overhangs?).

S Nrk Upl Hls (Jmt?)

N Ho ST Tr

F EH PS

Magnusson 1942b, Vězda 1978a

Scoliciosporum pruinosum (P.James) Vězda

Bacidia pruinoso P.James

On bark of deciduous trees.

S Bl-Bh Ög Srm Vrm Upl

N -

F V

James 1971, Vězda 1978a, Gustavsson 1989, Arup et al. 1997, Thor & Arvidsson 1999

Scoliciosporum sarothamni (Vain.) Vězda

Bacidia sarothamni Vain.

On bark, mainly twigs, of deciduous trees and shrubs.

S Sk-Hls

N Ak Ho

F V U OP?

Vainio 1922, Vězda 1978a, Gustavsson 1989, Muhr 1989, Tønsberg 1992b

Scoliciosporum umbrinum (Ach.) Arnold

Scoliciosporum compactum Körb.

Bacidia perpusilla auct. scand.

Scoliciosporum perpusillum auct. scand.

Bacidia turgida (Körb.) Hellb.

Scoliciosporum turgidum Körb.

Bacidia umbrina (Ach.) Bausch

On siliceous rocks and pebbles, sometimes on lignum or tree bark.

S Sk-TL

N Ak Op Bu Te VA-SF ST-No Tr Fi?

F V U St-ES PH-PK Kn OP InL

Degelius 1939a, Vězda 1978a, Elvebakk & Bjerke 2006

Scutula circumspecta (Vain.) Kistenich et al.

Bacidia bacillifera (Nyl.) Arnold p.p.

Lecidea bacillifera f. *circumspecta* Nyl. in Norrlin & Nylander, nom. nud.

Bacidia circumspecta (Nyl. ex Vain.) Malme

Bacidia quercicola (Nyl.) Vain.

On bark of deciduous trees, rarely on Juniperus.

S Sk-Ång Vb

N He Op Vf Te Ho MR ST-No Fi

F V U EK EH ES PH Kn-PeP

Hedlund 1892, Ekman 1996, Kistenich et al. 2018

***Scutula curvispora (D.Hawksw. & Miqdl.) Diederich**

Libertiella curvispora D.Hawksw. & Miqdl.

On *Peltigera canina*, *P. membranacea*, *P. praetextata*, *P. rufescens*.

S -

N AA

F A-Ks

Hawksworth & Miadlikowska 1997, Puolasmaa et al. 2012, Diederich et al. 2018, Klepsland 2020

***Scutula dedicata Triebel et al.**

Catillaria heeri auct., non (Hepp) H.Olivier

On *Peltigera didactyla*, *P. neckeri*, *P. rufescens* (thallus).

S Vg (Hemsjö 1931 Magnusson)

N -

F V-EH PH PS OP Ks SoL

Triebel et al. 1997, Puolasmaa et al. 2012

Scutula effusa Rabenh.) Kistenich et al.

Bacidia auerswaldii (Hepp ex Stizenb.) Mig.

Bacidia effusa (Auersw. ex Rabenh.) Stizenb., non (Sm.) Trevis.

Bilimbia effusa Rabenh.

Bacidia effusella Zahlbr.

On rough bark of old deciduous trees.

S Sk Sm Öl Gtl Bh Srm Upl

N Ak

F -

Malme 1924, Almborn 1948, Almborn 1948, Thor & Arvidsson 1999, Kistenich et al. 2018

***Scutula epiblastematica (Wallr.) Rehm**

Scutula aggregata (Bagl. & Carestia) Rehm

On *Peltigera aphthosa*, *P. canina*, *P. leucophlebia*, *P. neckeri*, *P. praetextata*, *P. rufescens* (thallus).

S Nrk Srm Upl Hls

N ST

F A-St EH-Kn Ks KiL

Santesson 1949, Santesson 1984b, Santesson 1986, Clauzade et al. 1989, Triebel et al. 1997, Holien 2005, Puolasmaa et al. 2012

***Scutula heeri (Hepp) Trevis.**

Scutula epiblastematica sensu Vain.

Catillaria heeri (Hepp) H.Olivier

On *Peltigera rufescens* (thallus).

S Upl

N -

F V U EH PeP Ks EnL

Triebel et al. 1997, Puolasmaa et al. 2012

Scutula igniarii (Nyl.) S.Ekman

Bacidia abbrevians (Nyl.) Th.Fr.

Bacidia igniarii (Nyl.) Oxner

Lecidea igniarii Nyl.

Bacidia invertens Vain.

On bark of deciduous trees (primarily *Betula*), sometimes on polypores, lignum or *Juniperus*.

S Sm-TL

N Op Te ST NT Tr Fi

F V-ES PH-PK Kn OP Ks KiL InL

Vainio 1922, Ekman 1996, Elvebakk & Bjerke 2006, Svensson et al. 2017b

***Scutula leptogica (Nyl.) Zopf**

Specimen från TL undeterminable.

Magnusson 1952a

***Scutula miliaris (Wallr.) Trevis.**

Lecidea epigena Nyl.

Scutula miliaris var. *epigena* (Nyl.) Vain.

Scutula miliaris var. *versicolor* Vain.

Karsteniomyces peltigerae (P.Karst.) D.Hawksw., anamorph

Stagonopsis peltigerae P.Karst.

Scutula tuberculosa auct.

On *Peltigera canina*, *P. leucophlebia*, *P. malacea*, *P. praetextata*, *P. rufescens* (thallus).

S Sm Ög-Jmt Vb

N Ak Tr

F A-PK Kn PeP Ks SoL InL

Fries 1860, Santesson 1984b, Santesson 1986, Triebel et al. 1997, Puolasmaa et al. 2012

***Scutula tuberculosa (Th.Fr.) Rehm**

Scutula krempehuberi Körb.

Scutula solorinaria (Nyl.) P.Karst.

Scutula solorinicola (Vain.) Rehm

Karsteniomyces tuberculosus Alstrup & D.Hawksw., anamorph

On *Solorina saccata* (thallus).

S Ång Hrj Jmt LuL

N No Tr Fi

F V ES

Santesson 1949, Santesson 1984b, Hawksworth 1986a, Alstrup & Hawksworth 1990, Wedin et al. 2007

Scytinium aquale (Arnold) Otálora et al.

Leptogium aquale (Arnold) P.M.Jørg.

On calcareous rock in the inundation zone of lakes and streams.

S LyL LuL TL

N NT

F -

Nordin 2002b, Jørgensen 2007c, Ahti et al. 2012, Otalora et al. 2014, Westberg et al. 2016, Holien et al. 2016a

Scytinium aragonii (Otálora) Otálora et al.

Leptogium aragonii Otálora

On bryophytes on tree bases and calcareous rocks.

S Sk Öl Gtl Bh-Nrk Vrm-Dlr Jmt LyL

N Op Ro Ho MR NT

F A KP Ks

Otalora et al. 2014

Scytinium biatorinum (Nyl.) Otálora et al.

Leptogium biatorinum (Nyl.) Leight.

Leptogium pusillum Nyl.

On calcareous soil.

S Sk Öl Gtl Bh Vg Srm Upl LyL

N -

F V EH KiL

Degelius 1944b, Jørgensen 2007c, Ahti et al. 2012, Otalora et al. 2014

Scytinium callopismum (A.Massal.) Otálora et al.

Collema callopismum A.Massal.

Collema callopismum A.Massal. var. *callopismum*

Collema callopismum A.Massal. var. *rhyparodes* (Nyl.) Degel

Leptogium rhyparodes Nyl.

On calcareous rocks.

S Gtl Ög Srm Upl TL

N Ho

F -

Degelius 1954, Botnen 1997, Jørgensen 2007c, Ahti et al. 2012, Otálora et al. 2014

Scytinium fragrans (Sm.) Otálora et al.

Collema fragrans (Sm.) Ach.

Collema microphyllum Ach.

Leptogium microphyllum (Ach.) Leight.

Mainly on bark of *Fagus*, also on *Populus*, *Ulmus*, etc., sometimes on wood.

S (Sk) Gtl-Upl Hls Jmt LuL

N SF

F U OP

Degelius 1954, Ingelög 1994, Tønsberg et al. 1996, Arup et al. 1997, Thor & Arvidsson 1999, Jørgensen 2007c, Ahti et al. 2012, Otálora et al. 2014, Nordén & Jordal 2016

Scytinium gelatinosum (With.) Otálora et al.

Leptogium gelatinosum (With.) J.R.Laundon

Leptogium scotinum (Ach.) Fr.

Leptogium sinuatum (Huds.) A.Massal.

On sandy soil and on mossy rocks.

S Bl-TL

N Øf-Fi

F A-U EH PS-KiL EnL InL

Albertson 1946, Laundon 1984a, Arup et al. 1997, Thor & Arvidsson 1999, Jørgensen 2007c, Ahti et al. 2012, Otálora et al. 2014

Scytinium imbricatum (P.M.Jørg.) Otálora et al.

Leptogium imbricatum P.M.Jørg.

On naked soil and on bryophytes on soil.

S ÖI Gtl Bh Srm Vrm Upl Dlr Hls Hlj ÅsL LyL LuL TL

N Øf Ak Op Bu Te Ho ST-Fi

F V U Kn OP Ks EnL

Thor 1992a, Jørgensen 2007c, Hermansson 2008a, Ahti et al. 2012, Otálora et al. 2014

Scytinium intermedium (Arnold) Otálora et al.

Leptogium intermedium (Arnold) Arnold

Leptogium minutissimum auct.

Terricolous, or at base of old tree trunks.

S Sk Gtl Bh Dls Ög Dlr Hls Hlj Jmt TL

N Øf Op Te Ro Ho No

F V U EH EnL InL

Jørgensen 2007c, Hermansson 2008a, Ahti et al. 2012, Otálora et al. 2014

Scytinium lichenoides (L.) Otálora et al.

Leptogium atrocaeruleum (Schaer.) A.Massal.

Leptogium lacerum (Retz.) Gray

Leptogium lichenoides (L.) Zahlbr.

Tremella lichenoides L.

Lichen tremelloides Weiss

On (acidic and calcareous rock, on the ground, and on deciduous trees.

S Sk-TL

N Øf-Fi

F A-U EH PK KP Ks

Jørgensen 2007c, Ahti et al. 2012, Otálora et al. 2014

Scytinium magnussonii (Degel. & P.M.Jørg.) Otálora et al.

Leptogium magnussonii Degel. & P.M.Jørg.

On seepages on siliceous rock near the sea.

S Sk Hl Bh Vg Ög Vsm

N Øf Ro Ho

F V

Arup & Ekman 1991b, Tønsberg et al. 1996, Thor & Arvidsson 1999, Karlsson 2002, Jørgensen 2007c, Ahti et al. 2012, Otálora et al. 2014

Scytinium palmatum (Huds.) Gray

Leptogium corniculatum (Hoffm.) Minks

Leptogium palmatum (Huds.) Mont.

On mossy rocks.

S Sk Bl (Sm) Hl Bh Dls Vg Ög Srm

N AA-No

F -

Degelius 1935, Albertson 1946, Löfgren & Moberg 1984, Laundon 1984a, Arup et al. 1997, Thor & Arvidsson 1999, Hoffmann & Hafellner 2000, Jørgensen 2007c, Ahti et al. 2012, Otálora et al. 2014

Scytinium parvum (Degel.) Otálora et al.

Collema leptogioides auct.

Collema parvum Degel.

On calcareous rocks, also on dolomite or calcareous schists.

S Öl-Upl LyL-TL

N Bu Ho NT-Fi

F V Ks

Degelius 1954, Jørgensen 2007c, Ahti et al. 2012, Otálora et al. 2014

Scytinium plicatile (Ach.) Otálora et al.

Leptogium hydrocharum (Ach.) Zahlbr.

Leptogium plicatile (Ach.) Leight.

On sometimes submerged calcareous rocks and on acidic rocks irrigated by calcareous water.

S Sk Bh Vg Ög Srm Upl Dlr LyL TL

N Øf Ak Bu-Te Ro Ho ST-Fi

F V

Albertson 1946, Degelius 1955b, Jørgensen 2007c, Ahti et al. 2012, Otálora et al. 2014

Scytinium pulvinatum (Hoffm.) Otálora et al.

Collema pulvinatum Hoffm.

Leptogium pulvinatum (Hoffm.) Otálora

Over bryophytes on tree bases and calcareous rocks and soil.

S Sk ÖI Gtl Sm Bh-Mpd Hrx Jmt ÅsL-TL

N Ak-Op Ro-No Fi

F A V U EH KP Ks EnL InL

Otalora et al. 2008, Otálora & Wedin 2014

Scytinium schraderi (Bernh.) Otálora et al.

Leptogium schraderi (Bernh.) Nyl.

Terricolous, on dry, calcareous soil.

S (Sk) (ÖI) Gtl Bh (Dls) (Vg)

N Øf Bu VA Ro Ho MR

F V? Ks

Albertson 1946, Christiansen et al. 1979, Thor & Arvidsson 1999, Westberg & Fröberg 2007, Jørgensen 2007c, Pykälä 2010b, Ahti et al. 2012, Jørgensen 2012a, Otálora et al. 2014

Scytinium subtile (Schrad.) Otálora et al.

Leptogium byssinum (Hoffm.) Zwackh, nom. illeg.

Leptogium minutissimum (Flörke) Fr.

Leptogium subtile (Schrad.) Torss.

On gravel, sand or clay (often calcareous), among bryophytes on calcareous rock, mortar or sandstone, or on bryophytes or directly on bark of deciduous trees and shrubs.

S Sk-Jmt LyL TL

N He Ho-ST No Tr

F V-EK EH PH-Kn Ks KiL

Albertson 1946, Jørgensen 2007c, Ahti et al. 2012, Otálora et al. 2014

Scytinium tenuissimum (Dicks.) Otálora et al.

Leptogium humosum Nyl.

Leptogium spongiosum (Sm.) Nyl.

Leptogium tenuissimum (Dicks.) Körb.

On clayey and calcareous soil.

S Sk-LuL TL?

N Ak Op Bu Ho SF ST No Tr Fi

F V U EH ES PS-Kn PeP-KiL EnL

Jatta 1893b, Albertson 1946, Ahti et al. 2012, Otálora et al. 2014

Scytinium teretiusculum (Wallr.) Otálora et al.

Leptogium teretiusculum (Wallr.) Arnold

On bark of deciduous trees, rarely on rock, lignum or soil.

S Sk-Gst Dlr Hls Mpd ÅsL LyL TL

N Øf-ST No

F V-EH EP PS Kn-EnL

Magnusson 1934, Jørgensen & Øvstedal 1975, Jørgensen 2007c, Ahti et al. 2012, Otálora et al. 2014

Scytinium tetrasporum (Th.Fr.) Otálora et al.

Leptogium tetrasporum Th.Fr.

Among bryophytes on soil.

S (Hls)

N (Op)

F -

Jørgensen 2007c, Ahti et al. 2012, Otalora et al. 2014

Siphula ceratites (Wahlenb.) Fr.

Pycnothele ceratites (Wahlenb.) Sommerf.

Terricolous, on soil rich in humus in seasonal pools on acidic rock, on peat in bogs, etc.

S PL LuL (western parts)

N Ro-Fi

F InL

Degelius 1932b, Arwidsson 1936, Hasselrot 1942b, Faegri 1952, Hakulinen 1965, Østhagen 1976

***Skyttea caesii Diederich & Etayo**

On the thallus of *Mycoblastus caesius*.

S -

N Ho SF

F -

Frisch et al. 2020a

***Skyttea dacampiae Zhurb.**

On *Dacampia hookeri* (thallus).

S -

N Tr (Skibotn 2003 M. Zhurbenko)

F -

Zhurbenko 2007

***Skyttea gregaria Sherwood et al.**

Rhymbocarpus gregarius (Sherwood et al.) Triebel

On *Violella fucata* (thallus and soralia).

S Hl Bh UpI Jmt ÅsL

N Ho-NT Tr

F Ks

Sherwood et al. 1980, Triebel 1989, Tønsberg 1992b, Frisch et al. 2020a

***Skyttea lecanorae Diederich & Etayo**

On *Lecanora* sp. (thallus).

S -

N Ro Ho MR NT No Tr

F InL

Diederich & Etayo 2000, Frisch et al. 2020a

***Skyttea nitschkei (Körb.) Sherwood et al.**

Beloniella nitschkei (Körb.) Rehm
Rhymbocarpus nitschkei (Körb.) Triebel
On *Thelotrema lepadinum* (thallus).

S -
N Ro Ho SF
F -

Sherwood et al. 1980, Triebel 1989, Diederich & Etayo 2000, Frisch et al. 2020a

***Skyttea tephromelarum Kalb & Hafellner**

Skyttea elachistophora auct., non (Nyl.) Sherwood & D.Hawksw.
On *Tephromela atra* (thallus).

S Bh
N Ho Tr
F -

Sherwood et al. 1980, Kalb 1988, Triebel 1989, Triebel et al. 1991, Hafellner 1993b, Nash et al. 2004, Alstrup et al. 2008

***Skyttella mulleri (Willey) D.Hawksw. & R.Sant.**

Agyrium flavescens Rehm
On *Peltigera aphthosa*, *P. praetextata*, *P. rufescens* (thallus).

S Vsm Upl
N Ho NT No
F PH

von Keissler 1923, von Keissler 1930, Santesson 1984b, Hawksworth & Santesson 1988

Solenopsora olivacea (Dufour) H.Kilius

Biatorina michelettiana A.Massal.
Catillaria olivacea (Fr.) Zahlbr.

Not in F, N or S. Reports in Magnusson (1936b) and Havaas (1909) are incorrect.

***Solenopsora vulturiensis* A.Massal.**

On maritime schistose rocks.

S -
N Ho (Bømlo 1993 Tønsberg)
F -

Tønsberg 1994a, Jørgensen 1996

***Solitaria chrysophthalma* (Degel.) Arup et al.**

Caloplaca chrysophthalma Degel.
On sun-exposed, old deciduous trees.

S Sk Öl Gtl Vg-Upl
N Te
F V U

Degelius 1944a, Laundon 1963, Ihlen 1997b, Thor & Arvidsson 1999, Arup et al. 2013

Solorina bispora Nyl.

On calcareous soil in alpine (and subalpine) areas.

S Hrj-TL
N He-Bu Te Ro-Fi
F EnL

Vitikainen 2007b, Ahti et al. 2012

Solorina crocea (L.) Ach.

On open, naked, calcareous as well as non-calcareous soil.

S Vrm Dlr-TL
N He-Bu Te AA Ro-Fi
F PH-PK Kn-InL

Vitikainen 2007b, Ahti et al. 2012

Solorina octospora Arnold

On calcareous soil in alpine areas.

S TL
N Op Ho ST Tr
F EnL

Krog & Swinscow 1986, Vitikainen 2007b, Ahti et al. 2012, Westberg et al. 2016

Solorina saccata (L.) Ach.

On calcareous soil, mainly in shaded sites.

S Sk Öl-Sm Bh-TL
N Øf-Te VA Ro-Fi
F A V EH ES PS-InL

Krog & Swinscow 1986, Vitikainen 2007b, Ahti et al. 2012

Solorina spongiosa (Ach.) Anzi

Neosolorina spongiosa (Ach.) Gyeln.

On calcareous soil.

S Öl Gtl Bh Vg Srm-TL
N Øf-Op Ro Ho ST No-Fi
F A-U PS KP Kn PeP-KiL EnL

Magnusson 1925b, Albertson 1946, Pettersson 1958, Laundon 1984a, Vitikainen 2007b, Vitikainen 2007b

***Sphaerellothecium abditum Triebel**

On *Lecidea atrobrunnea*, L. *praenubila* (thallus).

S Dls TL
N Fi
F -

Triebel 1989

***Sphaerellothecium araneosum (Rehm ex Arnold) Zopf**

Discothecium araneosum (Rehm) Vouaux

Sphaerellothecium araneosum (Rehm ex Arnold) Zopf var. *araneosum*

Endococcus araneosus (Rehm) H.Olivier

Echinothecium glabrum M.S.Christ. et al.

On *Ochrolechia frigida*, *O. grimmiae*, *O. pallescens*, *O. upsaliensis*, *Pertusaria bryontha* (thallus).

S Hrj Jmt ÅsL LyL PL LuL TL

N Op SF MR ST NT Tr Fi

F EnL

von Keissler 1930, Alstrup et al. 2008, Suija & Jüriado 2020

***Sphaerellothecium cladoniae (Alstrup & Zhurb.) Hafellner**

Sphaerellothecium araneosum var. *cladoniae* Alstrup & Zhurb.

On *Cladonia* sp. (thallus).

S TL

N Fi

F Ks EnL

Zhurbenko & Alstrup 2004

***Sphaerellothecium cladoniicola E.S.Hansen & Alstrup**

On *Cladonia mitis*, *C. rangiferina*, *C. stygia* (thallus).

S Sk Sm Vg Ög Vrm

N -

F St

Hansen & Alstrup 1995, Santesson 1998

***Sphaerellothecium coniodes (Nyl.) Cl.Roux & Diederich**

Pharcidia coniodes (Nyl.) Sacc. & D.Sacc.

Stigmidium coniodes (Nyl.) Triebel in Hertel et al.

On *Baeomyces rufus* (thallus).

S Vrm (2 loc.)

N Ak

F EH PH

Vouaux 1912, Ihlen 1998

***Sphaerellothecium contextum Triebel**

On *Rhizocarpon alpicola*, *Sporastatia polyspora*, *S. testudinea* (thallus), *Protoparmelia badia* (apothecia).

S Hrj Jmt TL

N Tr

F -

Triebel 1989, Alstrup et al. 2008

***Sphaerellothecium minutum Hafellner**

On *Sphaerophorus fragilis*, *S. globosus* (thallus).

S Bh Hrj Jmt LyL LuL

N Op SF NT Tr

F EnL

Hafellner 1993b, Alstrup et al. 2008, Suija & Jüriado 2020

***Sphaerellothecium parietinarium (Linds.) Hafellner & V.John**

Microthelia parietinaria Linds.

Endococcus parietinus, lapsus in Hawksworth

Discothecium physciicola (Nyl.) Vouaux.

On *Xanthoria parietina* (apothecia, thallus).

S ÖI Gtl

N -

F -

Hawksworth 1982a, Hawksworth 1985b, Santesson 1994b, Roux & Triebel 1994, Hafellner & John 2006

***Sphaerellothecium parmeliae Diederich & Etayo**

On *Parmelia saxatilis*, *P. sulcata* (thallus).

S Vg Upl Hrj

N Tr

F U? EH? PS KP

Santesson 1998, Etayo & Diederich 1998, Alstrup et al. 2008

***Sphaerellothecium propinquellum (Nyl.) Cl.Roux & Triebel**

Sphaeria propinquella Nyl.

On *Lecanora carpineae*, etc.

S Sk Gtl Bh Vg Ög Srm Upl Hrj

N Op SF

F A

Santesson 1984b, Santesson 1988, Roux & Triebel 1994

***Sphaerellothecium reticulatum (Zopf) Etayo**

Echinothecium reticulatum Zopf

On *Parmelia saxatilis*, *P. fraudans* (thallus).

S Sm Vg Hls Hrj

N Op Tr Fi

F EH

Santesson 1949, Triebel 1989, Alstrup et al. 2008

***Sphaerellothecium siphulae Zhurb.**

On *Siphula ceratites*.

S PL

N ST NT No Tr Fi

F -

Motiejūnaitė et al. 2019, Ekman et al. 2019a

***Sphaerellothecium soechtingii Zhurb.**

On *Arthrorhaphis alpina* (thallus).

S -

N Tr Fi

F -

Zhurbenko 2007

***Sphaerellothecium thamnoliae Zhurb.**

On *Thamnolia vermicularis*.

S -

N ST Tr

F -

Specimens reported from N belong to var. *thamnoliae*.

Zhurbenko 2012, Zhurbenko & Ohmura 2018

***Sphaeropezia cucularis (Norman) Baloch & Wedin**

Odontotrema cuculare (Norman) Diederich

Lethariicola cucularis (Norman) Lumbsch & D.Hawksw.

Limborina cucularis Norman

On *Parmeliopsis hyperopta* (thallus).

S -

N Fi

F -

Norman 1870, Lumbsch & Hawksworth 1990, Diederich et al. 2002, Baloch et al. 2013a

***Sphaeropezia figulina (Norman) Baloch & Wedin**

Lethariicola figulina (Norman) Lumbsch & D.Hawksw.

Limborina figulina Norman

Odontotrema figulinum (Norman) Diederich

On *Lecanora polytropa* (ap.).

S -

N Tr

F -

Norman 1870, Lumbsch & Hawksworth 1990, Diederich et al. 2002, Baloch et al. 2013a

***Sphaeropezia melaneliae (Diederich & Zhurb.) Baloch et al.**

Odontotrema melaneliae Diederich & Zhurb.

On *Melanohalea olivacea* (ap.).

S Hrj TL

N -

F -

Diederich et al. 2002, Baloch et al. 2013a

***Sphaeropezia mycoblasti Diederich et al.**

On *Mycoblastus* (thallus, rarely apothecia).

S Nb PL

N -

F -

Baloch et al. 2013a

***Sphaeropezia ochrolechia (Diederich et al.) Baloch & Wedin**

Odontotrema ochrolechia Diederich et al.

On *Ochrolechia frigida* (thallus).

S Hrj

N ST Fi

F -

Diederich et al. 2002, Baloch et al. 2013a

***Sphaeropezia sipei (Grumann) Baloch & Wedin**

Lethariicola sipei Grumann

Odontotrema sipei (Grumann) Diederich

Not in F, N or S.

***Sphaeropezia thamnoliae (Zhurb. et al.) Baloch & Wedin**

Odontotrema thamnoliae Zhurb. et al.

On *Thamnolia vermicularis* (thallus).

S TL (Låktatjåkka 1947 R. Santesson)

N -

F EnL

Diederich et al. 2002, Baloch et al. 2013a, Sujja & Jüriado 2020

Sphaerophorus fragilis (L.) Pers.

On acidic rock, rarely on the ground.

S Sk-TL

N Øf-Fi

F A-EP PK OP-InL

Tibell 1980b, Tibell 1999a

Sphaerophorus globosus (Huds.) Vain.

Sphaerophorus coralloides Pers.

On tree bark (deciduous trees as well as conifers) or on acidic rock, rarely on the ground.

S Sk-TL

N Øf-Fi

F A-PH PeP-InL

Tibell 1980b, Tibell 1981a, Tibell 1999a

***Sphaerulina dolichotera (Nyl.) Vouaux**

Metasphaeria dolichotera (Nyl.) Sacc. & D.Sacc.

Sphaerulina intermedia Vouaux

On *Lathagrium fuscovirens*, "*Leptogium* sp." (thallus).

S Hrj TL

N -

F -

Determination uncertain.

von Keissler 1930, Magnusson 1952a, Hoffmann & Hafellner 2000

***Sphaerulina dubiella (Nyl.) Keissler**

Pharcidia dubiella (Nyl.) A.L.Sm.

Verrucaria dubiella Nyl.

On *Pertusaria bryontha* (thallus).

S -

N Tr (Skibotn 2003 A. Nordin)

F -

Determination uncertain.

Alstrup et al. 2008

***Sphinctrina anglica Nyl.**

Phacotiella microcephala (Sm.) Vain.

Sphinctrina microcephala (Sm.) Kõrb, non Nyl.

Parasitic on *Protoparmelia oleagina* (or rarely *P. hypotremella*).

S (Sk) Ö1 (Sm) (DIs) (Ög-Srm) (Vsm) (Upl) Dlr Hls Jmt

N -

F U EH PH

Löfgren & Tibell 1979, Thor & Arvidsson 1999, Tibell 1999a, Nordin & Hermansson 1999

***Sphinctrina leucopoda Nyl.**

Sphinctrina kylemoriensis (Larbal. ex Leight.) Cromb.

Sphinctrina obscurata sensu Nádv.

Sphinctrina pedata (Stenh.) R.Sant.

On *Pertusaria pertusa*, *P. coccodes*, *Lecanora swartzii* (thallus).

S Sk (Bl) Gtl Sm Hl Bh Vg-Srm Vsm Upl Hls (Ång) Jmt

N -

F -

Löfgren & Tibell 1979, Tibell 1980b, Arvidsson et al. 1988, Arup et al. 1997, Thor & Arvidsson 1999, Tibell 1999a

***Sphinctrina porrectula Nyl.**

Embolidium porrectulum (Nyl.) Vain.

On twigs of *Picea abies*..

S -

N -

F EH SoL

Löfgren & Tibell 1979, Tibell 1999a

***Sphinctrina tubiformis A.Massal.**

Sphinctrina microcephala Nyl.

Sphinctrina "tubaeformis"

Not in F, N or S.

***Sphinctrina turbinata (Pers.:Fr.) De Not.**

Sphinctrina gelasinata (With.) Zahlbr.

Calicium stigonellum Ach.

On *Pertusaria pertusa*, *P. coronata*, *Opegrapha gyrocarpa* (thallus).

S Sk-Upl Ång Jmt

N Vf Te

F EH

Tibell 1979, Tibell 1980b, Arvidsson et al. 1988, Santesson 1988, Arup et al. 1997, Thor & Arvidsson 1999, Tibell 1999a

Spilonema paradoxum Bornet

Spilonema tenellum Vain.

On wet rocks (granite, sandstone, schist, etc.).

S Vg Vrm TL

N Ak Op Ho

F St EH PH-PK PeP InL

Henssen 1963a, Jørgensen 2007b, Ahti et al. 2012

Spilonema revertens Nyl.

Asirosiphon densatum Nyl.

Spilonema subsimile Nyl.

On wet siliceous rocks, sometimes epiphytic on other lichens.

S Ög-TL

N He Op No Tr

F V U St-ES PS PK Kn OP Ks InL

Henssen 1963a, Jørgensen 2007b, Ahti et al. 2012

***Spirographa fusisporella (Nyl.) Zahlbr.**

Pleospilis ascaridiella (Nyl.) D.Hawksw.

Graphis fusisporella Nyl.

Opegrapha spiralis Müll.Arg.

Spilomela vermifera (Leight.) Keissl.

On *Fuscidea gothoburgensis*, *Ochrolechia tartarea*, *Pertusaria amara*, *P. corallina*, (thallus), *Xylographa vitiligo* (thallus and soralia), *Melanohalea septentrionalis* (apothecia).

S Dls Vg Hrj Jmt

N Ho NT

F -

Hawksworth 1980a, Hawksworth 1983a, Sherwood-Pike 1987, Santesson 1988, Triebel 1989, Hafellner 1993b, Kalb et al. 1995

Sporastatia polyspora (Nyl.) Grumann

Sporastatia cinerea (Schaer.) Körb.

On siliceous rocks in alpine areas.

S Jmt-TL

N Op Bu Ho-MR NT-Fi

F EnL InL

Magnusson 1935c, Poelt 1969, Hertel 1987

Sporastatia testudinea (Ach.) A.Massal.

Biatorella coracina Lyngé

Lecidea coracina Sommerf., non Ach.

Sporastatia morio auct.

On siliceous rocks in alpine areas.

S Vrm Dlr-TL

N Ak Op Bu Ho-ST Tr Fi

F EnL

Magnusson 1935c, Poelt 1969

Sporodictyon cruentum (Körb.) Körb.

Polyblastia cruenta (Körb.) P.James & Swinscow

Polyblastia henscheliana (Körb.) Lönnr.

Verrucaria subumbrina Nyl.

On rocks and boulders (mainly siliceous) in streams and at the shores of lakes.

S Sm-TL

N Ro-SF ST No Tr Fi

F EH EnL

Swinscow 1971, Elvebakk & Bjerke 2006, Jørgensen & Nordin 2009, Savić & Tibell 2009

Sporodictyon minutum Savić & Tibell

On schist and calcareous rocks in humid situations.

S Hrj Jmt LyL

N Tr

F Ks KiL

Savić & Tibell 2009, Pykälä 2013

Sporodictyon schaererianum A.Massal.

Polyblastia theleodes auct. p.p.

On calcareous schist and calcareous rocks in humid situations.

S Ög Hrj Jmt LyL LuL TL

N Ho ST NT No Tr Fi

F Ks

Stålberg 1939, Magnusson 1952a, Savić & Tibell 2009

Sporodictyon terrestre (Th.Fr.) Savić & Tibell

Polyblastia inumbrata (Nyl.) Arnold

Polyblastia sommerfeltii Lyngé

Polyblastia terrestris Th.Fr.

On naked soil, rarely saxicolous.

S Hrj Jmt LyL LuL TL

N Op Ho ST NT No Tr Fi

F Ks

Magnusson 1946, Swinscow 1971, Savić & Tibell 2009

Sporodophoron cretaceum (Hue) Ertz & Frisch

Schismatomma cretaceum (Hue) J.R.Laundon

On old Quercus.

S Öl Gtl Sm

N -

F -

Johansson et al. 2004, Frisch et al. 2015, Knutsson 2015b

Squamarina cartilaginea (With.) P.James

Lichen cartilagineus With.

Lecanora crassa (Huds.) Ach.

Squamarina crassa (Huds.) Poelt

On bryophytes on calcareous rock.

S Öl Gtl Dls Ög-Upl (Jmt?)

N Ak He Bu-Te Ro

F -

Fries 1871, Poelt 1958a, Poelt & Krüger 1970, Timdal 1983

Squamarina degelii Poelt

On calcareous rock.

S Upl

N Ak-Bu Tr

F -

Poelt 1958a, Poelt & Krüger 1970, Poelt & Buschardt 1978, Timdal 1982, Timdal 1983, Elvebakk & Bjerke 2006, Westberg et al. 2009

Squamarina gypsacea (Sm.) Poelt

Lecanora fragilis (Scop.) Zahlbr.

Lecanora gypsacea (Sm.) Th.Fr.

On *Mycobilimbia lurida* on calcareous rocks.

S Öl Gtl Srm

N Bu

F -

Fries 1871, Poelt 1958a, Pettersson 1958, Poelt & Krüger 1970, Rodenberg 1972, Thor 1982, Timdal 1983, Thor & Arvidsson 1999, Westberg & Fröberg 2007, Westberg et al. 2008c

Squamarina lentigera (Weber) Poelt

Lecanora lentigera (Weber) Ach.

On calcareous soil or on bryophyte tufts on calcareous rock or soil.

S Sk Öl Gtl Vg

N Op No-Fi

F -

Fries 1871, Poelt 1958a, Poelt & Krüger 1970, Trass 1970

Squamarina magnussonii Frey & Poelt

Lecanora magnussoniana Hafellner & Türk

On calcareous schist.

S -

N He Op

F -

Poelt 1958a, Timdal 1983, Hafellner & Türk 2001

Squamarina pachylepidea (Hellb.) Poelt

Lecanora crassa subsp. *pachylepidea* (Hellb.) Th.Fr.

Placodium saxicolum subsp. *pachylepideum* Hellb.

On siliceous rocks and calcareous schist.

S Nrk

N Op

F -

The report from N Fi refers to *Squamarina scopulorum*.

Fries 1871, Hellbom 1871a, Poelt 1958a, Poelt & Krüger 1970, Timdal 1983, Thor & Arvidsson 1999, Westberg & Berglund 2009

Squamarina scopulorum Haugan & Timdal

Saxicolous.

S Jmt LuL

N He Op Ho MR ST Fi

F -

Haugan & Timdal 1992, Westberg 2006

Staurolemma omphalarioides (Anzi) P.M.Jørg. & Henssen

Lempholemma omphalarioides (Anzi) Arnold

Physma omphalarioides (Anzi) Arnold

Mostly on bark of *Populus tremula*, rarely on *Sorbus aucuparia* or *Fraxinus excelsior*.

S -

N MR ST NT No

F -

Degelius 1955a, Tønberg et al. 1996, Jørgensen 2004b, Jørgensen 2007d, Holien & Jørgensen 2010, Ahti et al. 2012

Staurothele arctica Lynge

On calcareous rocks.

S TL

N SF

F -

Lynge 1937, Magnusson 1950b, Klepsland 2020

Staurothele areolata (Ach.) Lettau

Staurothele clopima, sensu Th.Fr., non (Wahlenb.) Th.Fr.

Staurothele turgidella Vain.

On siliceous as well as calcareous rocks, dolomite, etc.

S Sk-TL

N Ak Ho ST Tr Fi

F EH Kn Ks KiL EnL InL

Malme 1919a, Vainio 1921, Zschacke 1934, Swinscow 1963, Elvebakk & Bjerke 2006

Staurothele bacilligera (Arnold) Arnold

On calcareous rocks.

S Gtl Dlr?

N -

F -

Malme 1919a, Zschacke 1934, Swinscow 1963

Staurothele caesia (Arnold) Arnold

On calcareous rocks.

S ÖI Gtl

N -

F -

Malme 1919a, Zschacke 1934, Swinscow 1963

Staurothele clopima (Wahlenb.) Th.Fr.

Staurothele drummondii (Tuck.) Tuck.

Staurothele fuscocuprea (Nyl.) Zschacke

Staurothele perradiata Lynge

Staurothele septentrionalis Lynge

Mainly on crystalline schists in moist localities in alpine and subalpine regions.

S Htrj-TL

N Op Bu Te Ho SF ST Tr Fi

F InL

Malme 1919a, Zschacke 1934, Gueidan et al. 2009

Staurothele clopimoides (Arnold) J.Steiner

On crystalline schist, etc. by streams and lakes in the alpine region.

S Htrj-TL

N Op No Tr

F -

Zschacke 1934, Magnusson 1952a

Staurothele fissa (Taylor) Zwackh

Staurothele hazslinszkyi (Körb.) Blomb. & Forssell

Staurothele inconversa (Nyl.) Blomb. & Forssell

Verrucaria inconversa Nyl.

Staurothele lithina sensu Zahlbr.

Staurothele silesiaca (A.Massal.) Zschacke

Staurothele umbrina (Wahlenb.) Tuck.

Staurothele viridis Zschacke

On siliceous rocks, mainly by streams and lakes, on seepages, etc.

S Sk-TL

N AA Ho MR ST No Tr

F A-PK Kn Ks KiL EnL InL

Malme 1919a, Vainio 1921, Zschacke 1934, Swinscow 1963

Staurothele frustulenta Vain.

Staurothele catalepta, sensu Malme, non (Ach.) Blomb. & Forssell (= *Verrucaria* sp.)

Staurothele elegans (Wallr.) Zwackh

On siliceous rocks, sometimes on slightly calcareous rocks.

S Sk-LyL (LuL?)

N AA Ak No Tr Fi

F V U St EH PH PS OP PeP

Malme 1919a, Zschacke 1934, Magnusson 1942b, Magnusson 1945b, Degelius 1956, Swinscow 1963

Staurothele geoica Zschacke

Terricolous.

S TL

N -

F -

Svensson & Palice 2009

Staurothele guestphalica (J.Lahm ex Körb.) Arnold

Staurothele orbicularis auct.

On calcareous rocks.

S Öl Gtl Vg Nrk Gst LyL

N -

F V

In Fennoscandian publications often referred to as *Staurothele orbicularis* which seems to be a separate species.

Fries 1864, Malme 1919a, Zschacke 1934, Pykälä 2008

Staurothele hymenogonia (Nyl.) Th.Fr.

On calcareous rocks.

S Vg Ög Srm Dlr(?)

N Tr

F EnL

Malme 1919a, Zschacke 1934, Swinscow 1963, Pykälä 2010c

Staurothele rupifraga (A.Massal.) Arnold

On calcareous rocks.

S Sk ÖI Gtl Ög Nrk Srm Upl Dlr LyL
N Ho No Tr
F V

Malme 1931, Zschacke 1934, Degelius 1942, Swinscow 1963, Pykälä 2010b

Staurothele succedens (Rehm ex Arnold) Arnold

On calcareous rocks in moist localities.

S ÖI? Ög Hrj ÅsL LyL LuL TL
N Ho NT
F Ks

Zschacke 1934, Swinscow 1963, Botnen & Tønsberg 1988, Frøberg 1989, Pykälä 2013

Steinia geophana (Nyl.) Stein

Lecidea boreella Nyl.

Biatora geophana (Nyl.) Th.Fr.

Biatorella geophana (Nyl.) Rehm

Lecidea geophana Nyl.

Pleolecis geophana (Nyl.) Clem.

Lecidea trichogena Norman

On sandy or clayey often calcareous soil, on decaying wood, etc.

S Sk-Jmt TL
N Ak Op Ho ST Tr Fi
F V-EH PH PS Kn PeP KiL-EnL

Fries 1874, Vainio 1934, Faurel & Schotter 1954

+Stenocybe flexuosa Selva & Tibell

On *Picea abies*.

S -
N NT (Overhalla 1977 Holien)
F -

Selva & Tibell 1999, Holien 2001

+Stenocybe nitida (Mont.) R.Heim

Stenocybe bryophila Walt. Watson

On hepatics (*Plagiochila* and *Frullania*).

S -
N Ho
F -

Jørgensen 1996, Tibell 1999a, Döbbeler & Feuerer 2004, Blom et al. 2015, Blom et al. 2015

+Stenocybe pullatula (Ach.) Stein

Stenocybe byssacea (Fr.) Körb.

Calicium byssaceum Fr.

Calicium pullatulum Ach.

On twigs of *Alnus*.

S Sk-Öl Sm-Hls Hrj-ÅsL PL-TL

N VA-No

F V U St-PS Kn-KiL SoL InL

Tibell 1981b, Tibell 1999a

Stereocaulon alpinum Laurer

Stereocaulon alpinum var. *erectum* Frey, ined.

Stereocaulon alpinum var. *gracilentum* (Th.Fr.) H.Magn., ined.

Stereocaulon paschale var. *alpinum* (Laurer) Du Rietz

Terricolous, especially in alpine and subalpine areas, also on sand dunes.

S Gtl Ång Vb Hrj-TL

N Ak-Bu Te AA Ro-SF ST-Fi

F A U KP Ks-InL

Magnusson 1926b, Lamb 1977, Kivistö 1998

Stereocaulon arcticum Lynge

Terricolous in mountain heaths.

S Jmt LyL

N No Tr Fi

F EnL InL

Perhaps conspecific with *Stereocaulon vesuvianum*.

Lynge 1938, Dahl 1950, Lamb 1977, Elvebakk & Bjerke 2006

Stereocaulon arenarium (L.I.Savicz) I.M.Lamb

Terricolous.

S -

N No Tr Fi

F ?EnL InL

Lamb 1972, Lamb 1977

Stereocaulon botryosum Ach.

Stereocaulon fastigiatum Anzi

On siliceous and often damp rocks and boulders (crystalline schist, etc.) in alpine and subalpine areas.

S Hrj-TL

N He-Bu Te Ho-ST No-Fi

F EnL InL

Magnusson 1926b, Østhagen 1976, Lamb 1977

Stereocaulon capitellatum H.Magn.

Stereocaulon farinaceum H.Magn.

On rock in mountain areas.

S ÅsL LyL TL

N Ho-Fi

F OP EnL

Magnusson 1926b, Lamb 1977, Carlin & Carlin-Silväng 1982, Carlin 1985

Stereocaulon cephalocrustatum McCune et al.

On the ground; alpine.

S TL

N -

F -

Svensson et al. 2020

Stereocaulon condensatum Hoffm.

Terricolous, mainly on open, sandy soil.

S Sk-TL

N Øf He-Bu Te Ho SF ST No-Fi

F V U St-ES PH-InL

Magnusson 1926b, Lamb 1977

Stereocaulon coniophyllum I.M.Lamb

On rock or soil in damp sites.

S Jmt

N He Op VA Ho-ST Tr Fi

F EnL

Vevle 1975, Lamb 1977, Thor & Arvidsson 1999

Stereocaulon cumulatum (Sommerf.) Tindal

Lecidea conglomerata Sommerf.

Toninia cumulata (Sommerf.) Th.Fr.

Thalloedaema cumulatum (Sommerf.) Vain.

Lecidea paracarpa Nyl.

Biatorella perfidiosa (Nyl.) Räsänen, nom. sed non planta

Tromera perfidiosa (Nyl.) Räsänen

Lecidea perfidiosa Nyl.

On calcareous soil or rock, mainly in alpine areas.

S Ög Vrm Dlr Ång-TL

N He-Bu Ho MR-Fi

F St Kn PeP-InL

Fries 1874, Vainio 1922, Tindal 1991, Tindal 2002

Stereocaulon dactylophyllum Flörke

Stereocaulon coralloides Fr.

Stereocaulon spissum Nyl. ex Hue

On siliceous rock.

S Sk-Ång Jmt ÅsL LuL

N Øf-Tr

F A-PK Kn PeP Ks

Magnusson 1926b, Lamb 1977

Stereocaulon delisei Bory ex Duby

Siliceous maritime rocks, on rocks in strems or on strem banks, or on pebbles in coastal heath depressions.

S Bh Vg

N VA-MR

F -

Magnusson 1926b, Østhagen 1976, Lamb 1977, Tønsberg et al. 1996, Jørgensen 1996, Thor & Arvidsson 1999

Stereocaulon depressum (Frey) I.M.Lamb

Stereocaulon botryosum f. *depressum* Frey

Stereocaulon fastigiatum f. *confluens* H.Magn.

Stereocaulon fastigiatum f. *depressum* H.Magn.

Saxicolous, in mountain areas.

S Jmt PL LuL LyL TL

N Op Ho ST No-Fi

F EnL InL

Magnusson 1926b, Lamb 1977

Stereocaulon evolutum Graewe

Stereocaulon lusitanicum H.Magn.

Stereocaulon spissum var. *laxum* Frey

On siliceous rock.

S Sk-Upl esp. in Bh

N Øf Ak Bu-Tr

F A-U St EH EP

Magnusson 1926b, Lamb 1977

Stereocaulon glareosum (Savicz) H.Magn.

On sandy or gravelly soil (roadsides, stream banks, etc.).

S Vg? Vrm Dlr Ång-TL

N He-Bu AA Ro Ho ST-Fi

F V St EP KP OP-InL

Magnusson 1926b, Lamb 1977

Stereocaulon grande (H.Magn.) H.Magn.

Stereocaulon paschale var. *grande* H.Magn.

Stereocaulon saxatile f. *paschaleoides* (Hav.) I.M.Lamb

Among bryophytes or directly on the ground in acidic habitats.

S Sm-TL

N Øf-Bu Te-VA Ho SF ST NT Tr Fi

F V U St EH EP-InL

Magnusson 1926b, Lamb 1977, Kivistö 1998

Stereocaulon groenlandicum (E.Dahl) I.M.Lamb

Saxicolous.

S -

N Tr

F -

Elvebakk & Bjerke 2006

Stereocaulon incrustatum Flörke

Stereocaulon abduanum Anzi

Terricolous, on sandy soil, usually near streams and lakes.

S Bl Bh Vg Dlr Jmt TL

N Op NT

F V KP-Ks InL

Magnusson 1926b, Lamb 1977, Arup et al. 1997, Thor & Arvidsson 1999

Stereocaulon leucophaeopsis (Nyl.) P.James & Purvis

Toninia leucophaeopsis (Nyl.) Th.Fr.

Bacidia viarum (H.Magn.) Zahlbr.

Bilimbia viarum H.Magn.

On rocks and soil rich in copper and iron minerals.

S Hvj Jmt LyL

N Ho MR ST Tr

F -

Purvis & James 1985, Timdal 1991, Moberg 1991, Elvebakk & Bjerke 2006

Stereocaulon nanodes Tuck.

Stereocaulon hypopetraeum Vain.

Stereocaulon ostrobottniae H.Magn.

Stereocaulon tyroliense (Nyl.) Lettau

On metal-rich rocks, boulders, and pebbles.

S Sk-TL

N Øf Ak Op Bu Te AA Ho SF ST No-Fi

F V St EH EP PK KP OP-KiL EnL InL

Magnusson 1926b, Magnusson 1936c, Degelius 1939b, Degelius 1939c, Lamb 1977

Stereocaulon paschale (L.) Hoffm.

Terricolous, often among bryophytes, in thin forests (of Pinus, etc.), open heaths, etc.

S Sk-TL
N Øf-AA Ho-Fi
F A-InL

Magnusson 1926b, Lamb 1977

Stereocaulon pileatum Ach.

Stereocaulon condensatum var. *sorediatum* Harm.

Stereocaulon saxonicum Bachm.

On siliceous rock, often in damp sites.

S Sk-Dlr Hls Htj Jmt Vb ÅsL
N Øf-Bu Te AA Ro-MR NT-Tr
F V U St-ES PS PK Ks

Magnusson 1926b, Lamb 1977

Stereocaulon plicatile (Leight.) Fryday & Coppins

Rhizocarpon plicatile Leight.

On rock.

S Jmt (Handöl 2007-08 A. Nordin)
N -
F -

Högnabba et al. 2014

Stereocaulon rivulorum H.Magn.

On unstable soil and gravel in snowbeds or on banks of streams in alpine localities.

S Ög Dlr-TL
N He-Bu Te Ro Ho-Fi
F EnL InL

Magnusson 1926b, Lamb 1977, Tønsberg 1977, Tønsberg 1980, Sørensen Schei 1984

Stereocaulon saxatile H.Magn.

Stereocaulon evolutoides (H.Magn.) Frey

Stereocaulon saxatile var. *paschaleoides* ined., sensu Carlin & Carlin-Silväng

Stereocaulon saxatile var. *evolutoides* (H.Magn.) Carlin & Carl.-Silv.

Stereocaulon saxatile var. *serpens* (Th.Fr.) Carlin & Carl.-Silv.

Stereocaulon squamescens (Nyl.) Räsänen

Stereocaulon tomentosum f. *graphiticola* Räsänen

On exposed, siliceous rock.

S Sk-TL
N Øf-AA Ro Ho ST No Tr Fi
F A-Ks SoL EnL

Magnusson 1926b, Lamb 1977, Carlin & Carlin-Silväng 1982, Elvebakk & Bjerke 2006

Stereocaulon spathuliferum Vain.

Stereocaulon botryosum var. *dissolutum* (H. Magn.) Frey

On rock, mainly in alpine and subalpine areas.

S Hrj-TL
N He-Bu Te-Fi
F InL

Magnusson 1926b, Lamb 1977

Stereocaulon subcoralloides (Nyl.) Nyl.

Stereocaulon conglomeratum (Th.Fr.) Vain.

On siliceous rock, not in alpine areas.

S Sk-LuL
N Ak-Bu Te-SF ST No-Fi
F A-InL

Magnusson 1926b, Lamb 1977

Stereocaulon subdenudatum Hav.

Saxicolous.

S -
N Ho NT No
F -

Perhaps only a form of *Stereocaulon vesuvianum*.

Havaas 1954, Lamb 1977, Degelius 1982, Hassel & Holien 2007, Spribille et al. 2010

Stereocaulon subintricans Nyl.

A doubtful species according to Lamb (1977).

Lamb 1977

Stereocaulon symphycheilum I.M.Lamb

Among bryophytes or directly on rock (primarily schistose rock) or on the ground, mainly in alpine areas.

S Vrm Ång Hrj-TL
N Ak Op Bu ST No-Fi
F PK OP Ks SoL? EnL InL

Lamb 1961, Lamb 1977

Stereocaulon taeniarum (H.Magn.) Kivistö

Stereocaulon paschale f. *taeniarum* H.Magn.

On thin soil on siliceous rocks.

S ÖI Gtl Bh Srm Vsm Upl Vb
N -
F A-PH KP? OP

Kivistö 1998

Stereocaulon tennesseense H.Magn.

On sun-exposed, siliceous boulders in a stream.

S LuL (Jokkmokk 1990 Carlin)
N -
F -

Carlin 1998

Stereocaulon tomentosum Fr.

Stereocaulon botryocarpum H.Magn.

Stereocaulon cupriniforme Nyl.

On sandy or gravelly soil in more or less open localities, often on roadsides.

S Sk-TL

N Øf-Bu Te-Fi

F A-InL

Magnusson 1926b, Lamb 1977

Stereocaulon tornense (H.Magn.) P.James & Purvis

Tonia leucophaeopsis f. *farinacea* Hav.

Bacidia tornensis H.Magn.

On rocks rich in copper and iron minerals.

S Vrm Hrj Hrj Jmt LyL TL

N Ho ST NT Tr

F -

Magnusson 1952a, Havaas 1954, Purvis & James 1985, Jahns et al. 1995, Elvebakk & Bjerke 2006

Stereocaulon uliginosum I.M.Lamb

A Swedish specimen from TL was tentatively assigned to this species (Lamb 1977).

Lamb 1977

Stereocaulon urceolatum (P.M.Jørg. & Jahns) Högnabba

Muhria urceolata P.M.Jørg. & Jahns

On damp, siliceous rock.

S Nrk Vrm-Dlr Hls LuL

N Ak Te

F -

Muhr 1987a, Jørgensen & Jahns 1987, Moberg 1989, Högnabba 2006, Högnabba et al. 2014

Stereocaulon vesuvianum Pers.

Stereocaulon denudatum Nyl., uncertain synonym

Stereocaulon denudatum Flörke

On siliceous rock or on gravel or soil, often in damp sites.

S Sk-TL

N Øf-Fi

F A-EP PK-InL

Magnusson 1926b, Lamb 1977

Sticta canariensis (Bory) Bory ex Delise

Sticta dufourii Delise, photomorph

On schistose wet rocks.

S -

N Ho (the photomorph with cyanobacteria dominant)

F -

Østhagen 1976, James & Henssen 1976, Tønsberg 1990b, Tønsberg et al. 1996, Jørgensen 1996, Jørgensen & Tønsberg 2007, Ahti et al. 2012

Sticta ciliata Taylor

Sticta fuliginosa f. *ciliata* Degel.

Sticta fuliginosa auct. europ. p.p., non (Hoffm.) Ach.

Epiphytic on trees, overgrowing bryophytes.

S -

N Ro Ho

F -

Gaarder & Jordal 2016, Ekman et al. 2019b

Sticta fuliginoides Magain & Sérus.

Sticta fuliginosa f. *propagulifera* Vain. ex H. Magn.

In humid places on shaded, mossy rocks and occasionally on mossy trunks of predominantly *Salix caprea* and *Sorbus aucuparia*.

S (Sk) (Bl) (Sm) (Hl) (Bh) Dls (Vg) Ög Vrm Dlr

N He Bu Te VA-No

F -

All Swedish specimens formerly identified as *Sticta fuliginosa* belong to *S. fuliginoides*.

Ekman et al. 2019b

Sticta fuliginosa (Hoffm.) Ach.

On shaded, mossy rocks and tree trunks.

S -

N Ro-No

F -

All records from Sweden belong to *Sticta fuliginoides*.

Degelius 1935, Laundon 1984a, Arup et al. 1997, Jørgensen & Tønsberg 2007, Ahti et al. 2012, Hagström 2012a, Ekman et al. 2019b

Sticta limbata (Sm.) Ach.

On shaded, mossy rocks and tree trunks.

S (Sm) (Bh) (Dls)

N VA-MR

F -

Degelius 1935, Lindqvist 1986, Jørgensen 1996, Arup et al. 1997, Jørgensen & Tønsberg 2007, Ahti et al. 2012

Sticta sylvatica (Huds.) Ach.

On shaded, mossy rocks and tree trunks.

S (Sk) (Bl) Sm (Bh-Vg) Ög Vrm

N VA-MR Te Ak

F -

Degelius 1935, Jørgensen & Ryvarden 1970, Thor & Kannesten 1990, Arup et al. 1997, Jørgensen & Tønsberg 2007, Ahti et al. 2012, Hagström 2012a

***Stictis cladoniae (Rehm) Sacc.**

Schmitzonia cladoniae Rehm

On Cladonia "gracilis elongata".

S Lappland (Stenholm)

N -

F -

Is not a Stictis.

Sandstede 1931, Sherwood 1977

Stictis confusa Gilenstam et al.

On trunks of *Populus tremula*.

S Dlr Jmt Vb LyL

N -

F -

Saprotrophic morph on wood of *Populus* and *Salix caprea*.

Wedin et al. 2006

Stictis mollis Pers.

On young trunks of *Populus tremula*.

S Hls Jmt Ång Vb Nb LyL LuL

N Tr

F -

Saprotrophic morph on dead twigs of *Populus* and *Salix caprea*.

Wedin et al. 2006

Stictis populorum (Gilenstam) Gilenstam

Conotrema populorum Gilenstam

On trunks of *Populus tremula*.

S Srm-LuL

N -

F InL

Saprotrophic morph on wood of *Populus* and *Salix caprea*.

Gilenstam 1969, Poelt & Vězda 1977, Poelt & Vězda 1977, Sherwood 1977, Thor & Arvidsson 1999, Wedin et al. 2005

***Stigmatidium aggregatum (Mudd) D.Hawksw.**

Not in F, N or S.

***Stigmatidium arthoniae (Arnold) Hafellner**

On the thallus of *Arthonia radiata*.

S -

N Ro Ho

F -

Frisch et al. 2020a

***Stigmidium cerinae Cl.Roux & Triebel**

Stigmidium caloplacae Alstrup & Olech

On *Caloplaca cerina* ("C. stillicidiorum") (thallus).

S Jmt (Skurdalsporten 1914 Magnusson)

N -

F -

Roux & Triebel 1994, Roux et al. 1995

***Stigmidium congestum (Körb.) Triebel**

Pharcidia congesta Körb.

Pharcidia epicymatia (Wallr.) G. Winter

Pharcidia schaeereri auct.

Stigmidium schaeereri auct., non (A.Massal.) Trevis.

On *Lecanora allophana*, *L. leptacina*, *L. pulicaris*, *L. septentrionalis* (apothecia).

S Sm-Upl Jmt TL

N Øf Tr

F V U St

Hawksworth 1983a, Triebel 1989, Lumbsch & Feige 1994, Roux et al. 1995, Fox & Scannell 2000, Alstrup et al. 2008

***Stigmidium conspurcans (Th.Fr.) Triebel & R.Sant.**

Arthopyrenia conspurcans Th.Fr.

On *Psora rubiformis* (thallus).

S Hrj Jmt TL

N Op ST NT Fi

F -

Fries 1867, Timdal 1987c, Triebel 1989

***Stigmidium degelii R.Sant.**

On *Degelia plumbea* (thallus).

S Sm Vg

N Ho MR No

F -

Santesson 1993a, Santesson 1994a, Roux & Triebel 1994

***Stigmidium ephebes (Henssen) D.Hawksw.**

Pharcidia ephebes Henssen

On *Ephebe lanata*, *E. hispidula* (thallus).

S Vg Srm Vrm Upl

N Ak VA NT Fi

F A V U EH PH KiL EnL InL

Henssen 1963a, Hawksworth 1975a

* **Stigmatidium eucline (Nyl.) Vězda**

Stigmatidium aggregatum auct., not (Mudd). D.Hawksw.

Mycoporum eucline Nyl.

On *Pertusaria lactea* (thallus).

S Dlr

N Op Tr Fi

F -

Hawksworth 1983a, Sérusiaux et al. 2003, Sérusiaux et al. 2003, Kocourková & Knudsen 2010

* **Stigmatidium frigidum (Sacc.) Alstrup & D.Hawksw.**

Pharcidia frigida (Sacc.) Vouaux

On *Thamnotia vermicularis* (thallus).

S Öl Hrt Jmt

N Op Ho SF Tr

F -

Alstrup & Hawksworth 1990, Hafellner 1993b, Ihlen 1995a

* **Stigmatidium fuscatae (Arnold) R.Sant.**

Arthopyrenia fuscatae Arnold

On *Acarospora fuscata* (thallus).

S Sk Hl Vg Srm Vsm Upl Dlr Hls

N -

F U

Arnold 1874, Santesson 1986, Santesson 1988, Santesson 1994b

* **Stigmatidium glebarum (Arnold) Hafellner**

On *Toninia sedifolia* (thallus).

S -

N Op (Vågå 1985 V. Alstrup)

F -

Nimis & Poelt 1987, Alstrup 2004

* **Stigmatidium gyrophorarum (Arnold) D.Hawksw.**

Endococcus gyrophorarum (Arnold) J.C.David & D.Hawksw.

Pharcidia gyrophorarum (Arnold) Zopf

On *Umbilicaria vellea* (thallus).

S Hrt Jmt LuL TL

N ST Tr

F -

Santesson 1949, Hawksworth & Diederich 1988, Roux & Triebel 1994

***Stigmidium haesitans (Nyl.) Diederich**

Pharcidia haesitans (Nyl.) Vouaux
Stigmidium haesitans (Nyl.) Hafellner ined., comb. ined.
Verrucaria haesitans Nyl.

On *Protothelenella sphinctrinoides* (thallus).

S LuL (Muddus 1984 Kalb & Schrögl)

N -

F -

Vouaux 1912, Mayrhofer 1987a, Diederich et al. 2018

***Stigmidium hygrophilum (Arnold) R.Sant.**

Pharcidia dispersa f. *hygrophila* (Arnold) Keissl.
Endococcus hygrophilus Arnold

On *Porpidia melinodes*, *Porpidia* sp. (thallus).

S -

N No (Rombaksbotn 1986 R. Santesson)

F -

von Keissler 1930

***Stigmidium icmadophilae R.Sant.**

On *Icmadophila ericetorum* (thallus).

S Dlr Hrj Jmt LyL PL TL

N Op Bu Ho ST Tr Fi

F -

Santesson 1984b, Santesson 1986, Ihlen 1998

***Stigmidium lecidellae Triebel et al.**

On *Lecidella elaeochroma* (ap).

S Gtl (Gotska Sandön 1962 Tibell)

N ST

F -

Roux & Triebel 1994, Roux et al. 1995, Roux et al. 1995, Frisch et al. 2020a

***Stigmidium leprariae Zhurb.**

On *Lepraria neglecta* (thallus).

S -

N Tr (Skibotn 2003 M. Zhurbenko)

F -

Zhurbenko 2007

***Stigmidium leucophlebiae Cl.Roux & Triebel**

On *Peltigera leucophlebia* (thallus).

S Jmt (Storlien 1948 Santesson)

N -

F V U EH OP Ks EnL InL

Santesson 1986, Roux & Triebel 1994, Puolasmaa et al. 2012, Suija & Jüriado 2020

***Stigmatidium marinum (Deakin) Swinscow**

Arthopyrenia leptotera (Nyl.) Arnold

Thelidium leptoterum (Nyl.) Hellbom

Arthopyrenia marina (Deakin) A.L.Sm.

On *Verrucaria erichsenii*, *V. halophila*, *Wahlenbergiella mucosa* (thallus).

S Sk HI

N VA MR

F -

Swinscow 1962b, Swinscow 1965a

***Stigmatidium microspilum (Körb.) D.Hawksw.**

Arthopyrenia microspila Körb.

Pharcidia microspila (Körb.) G.Winter

On *Graphis scripta* (thallus).

S Sk Vg Nrk

N Ho

F -

Santesson 1949, Santesson 1984b, Santesson 1986

***Stigmatidium mycobilimbiae Cl.Roux et al.**

On *Mycobilimbia carneoalbida*, *M. epixanthoides*, *M. tetramera* (thallus).

S Hvj TL

N NT Fi

F -

Roux & Triebel 1994

***Stigmatidium parvum (Henssen) Diederich**

Pharcidia parva Henssen

On *Ephebe lanata* (thallus).

S Vrm Mpd

N -

F St

Henssen 1963a, Diederich et al. 2018

***Stigmatidium peltideae (Vain.) R.Sant.**

Sphaerulina nephromiaria (Linds.) Vouaux, specimen from N Fi on *Solorina* (von Keissler 1923, p. 16)

Pharcidia peltideae Vain.

On *Peltigera aphthosa*, *P. canina*, *P. membranacea*, *P. praetextata*, *P. rufescens*, *P. venosa* (thallus).

S Vsm Upl Hvj Jmt ÅsL TL

N Bu Ho ST-No Tr Fi

F V U EK EH ES PH-KP PeP Ks KiL EnL

Santesson 1960, Hawksworth 1975a, Hawksworth 1983a, Hawksworth 1986a, Roux & Triebel 1994, Alstrup et al. 2008, Puolasmaa et al. 2012

***Stigmidium psorae (Anzi) Hafellner**

Arthopyrenia psorae (Anzi) Müll.Arg.

Pharcidia psorae (Anzi) Winter

On *Psora decipiens* (thallus).

S Jmt

N Fi

F -

Triebel 1989, Calatayud & Triebel 1999, Granbo 1999

***Stigmidium pumilum (Lettau) Matzer & Hafellner**

Rosellinia pumila Lettau

On *Physcia caesia*, *P. dubia*, *P. phaea* (thallus).

S Sm Nrk Srm Upl Dlr ÅsL TL

N Fi

F V U St EP PH PeP Ks EnL InL

Matzer & Hafellner 1990, Puolasmaa et al. 2008

***Stigmidium rivulorum (Kernst.) Cl. Roux & Nav.-Ros.**

On thallus of aquatic *Verrucaria* spp.

S Hl (Dörestorp 2002 U. Arup)

N -

F -

Arup 2006c

***Stigmidium schaeferi (A.Massal.) Trevis.**

On *Dacampia hookeri* (thallus).

S -

N No Fi

F EnL

Roux & Triebel 1994, Henssen 1995d

***Stigmidium solorinarium (Vain.) D.Hawksw.**

On *Solorina bispora*, *S. saccata* (thallus).

S Vrm Hvj ÅsL LyL TL

N Tr Fi

F EH ES EnL

Santesson 1984b, Roux & Triebel 1994, Alstrup & Ahti 2007, Alstrup et al. 2008

***Stigmidium stygnospilum (Minks) R.Sant.**

Pharcidia arnoldiana Zopf

Cyrtidula stygnospila Minks

On *Dermatocarpon miniatum*, *D. leptophyllum*, *D. deminuens*, *D. meiphyllizum* (thallus).

S Öl Gtl Bh Ög Upl Mpd

N -

F EH

Santesson 1960

***Stigmidium superpositum (Nyl.) D.Hawksw.**

Pharcidia superposita (Nyl.) Sacc. & D.Sacc.

Thelidium superpositum (Nyl.) Th.Fr.

On Sporodictyon terrestre and thallus of undetermined lichen.

S Ång Jmt

N Tr

F -

Fries 1866b, von Keissler 1923, Santesson 1949, Hawksworth 1975a

***Stigmidium tabacinae (Arnold) Triebel**

Sphaerulina tabacinae Arnold

On *Toninia tristis* (thallus).

S -

N Op (Vågå, Viste 1961 Santesson)

F -

Triebel 1989

***Stigmidium vezdae Matzer**

On *Fellhanera subtilis* (thallus).

S Hls (Trönö 2008 A. Nordin)

N -

F -

Zhurbenko & Nordin 2010

Strangospora deplanata (Almq.) Clauzade & Cl.Roux

Biatorella deplanata Almq.

On bark of deciduous trees, mainly *Populus tremula*, sometimes on *Juniperus*.

S Sk-Ång

N Ak

F V U EH Kn EnL

Malme 1895a, Magnusson 1935c, Poelt & Vězda 1977

Strangospora microhaema (Norman) R.A.Anderson

Biatorella microhaema Norman

Corticolous and lignicolous.

S Vg Dls-TL

N Ro SF No Tr Fi

F EnL

Magnusson 1935c, Cramer 1975, Poelt & Vězda 1977

Strangospora moriformis (Ach.) Stein

Biatorella improvisa (Nyl.) Almq.

Biatorella moriformis (Ach.) Th.Fr.

Biatorella nitens Th.Fr.

On fence posts, wooden walls, on bark or lignum of conifers, sometimes on deciduous trees.

S Sk-TL

N Ak Op Vf AA MR ST No Fi

F A-InL

Magnusson 1935c, Poelt & Vězda 1977

Strangospora pinicola (A.Massal.) Körb.

Biatorella pinicola (A.Massal.) Anzi

On bark of deciduous trees, sometimes on conifer lignum.

S Sk Gtl Hl Bh Vg Srm(Kvarsebo) Vrm-Gstr Vb

N Ak Te VA ST NT

F PH PS

Possibly conspecific with *Strangospora moriformis*.

Magnusson 1935c, Magnusson 1935a, Magnusson 1955, Poelt & Vězda 1977, Holien & Hilmo 1991

Strangospora torvula (Nyl.) R.A.Anderson

Biatorella almquistii H.Magn.

Biatorella torvula (Nyl.) Blomb. & Forssell

Lecidea torvula Nyl.

On shaded siliceous vertical rock surfaces.

S Vrm Vsm Dlr Hls Mpd Hrj

N -

F V EH InL

Magnusson 1935c, Poelt & Vězda 1977, Thor & Arvidsson 1999, Svensson 2012

Strigula jamesii (Swinscow) R.C.Harris

Geisleria jamesii Swinscow

On bark of *Ulmus*, *Fagus*, *Quercus* and *Sorbus*.

S Bl Öl Gtl Bh

N AA ST NT

F -

Swinscow 1967b, Arvidsson et al. 1988, Thor & Arvidsson 1999, Hultengren & Stenström 2007, Hemberg 2011, Nordén & Jordal 2016

Strigula muscicola F.Berger et al.

On ground-dwelling bryophytes.

S -

N Tr

F EnL

Sérusiaux et al. 2005, Pykälä 2010c

Strigula phaea (Ach.) R.C.Harris

On old *Ulmus* trunks.

S -

N Ho

F -

Nordén & Jordal 2016

Strigula stigmatella (Ach.) R.C.Harris

Arthopyrenia faginea (Schaer.) Swinscow

Porina faginea (Schaer.) Arnold

Sagedia illinita (Nyl.) Hav.

Arthopyrenia stigmatella (Ach.) A.Massal.

Corticolous, often at the base of old or dead deciduous trees.

S Vsm Hls

N Ak Te Ho(?) ST-No

F V U

Havaas 1909, Swinscow 1965b, Harris 1975, Poelt & Vězda 1977, Ågren 1995, Poelt 1986

Strigula sychnogonioides (Nitschke) R.C.Harris

Geissleria sychnogonioides

Not in F, N or S.

Harris 1975

Strigula taylori (Carroll ex Nyl.) R.C.Harris

On deciduous tree in low-herb forest.

S -

N Ho

F -

Nordén et al. 2019, Frisch et al. 2020a

Synalissa ramulosa (Hoffm.) Fr.

Synalissa symphorea auct.

On calcareous rocks.

S ÖI Gtl Ög Srm Vrm UpI Dlr Hrlj

N Ak Op-Vf Ro Ho ST-No Fi

F V Kn Ks

Duncan 1970, Jørgensen 2007e, Ahti et al. 2012

Szczawinskia leucopoda Holien & Tønsberg

Mainly on twigs of *Picea abies* in old *Picea* forests.

S (Vrm)

N ST-No

F -

Holien & Tønsberg 1996, Aptroot et al. 1997a, Holien & Tønsberg 2002

Szczawinskia tsugae Funk

Not in F, N or S. Reports from N refer to *Szczawinskia leucopoda*.

***Taeniolella arthoniae (M.S.Christ. & D.Hawksw.) Heuchert & U.Braun**

Cladosporium arthoniae M.S.Christ. & D.Hawksw.

On *Arthonia pruinata* (apothecia).

S Sk (Häckeberga 1946 Skytte Christiansen)

N -

F -

Hawksworth 1979a, Heuchert et al. 2018

***Taeniolella caespitosa M.S.Cole & D.Hawksw.**

On *Pertusaria* sp. on rock.

S Htj

N -

F -

Heuchert et al. 2018

***Taeniolella christiansenii Alstrup & D.Hawksw.**

On *Stereocaulon* spp.

S -

N ST

F -

Heuchert et al. 2018

***Taeniolella chrysothricis Diederich**

Erronously reported from Sweden (see Ihlen & Wedin 2008).

Diederich 1990

***Taeniolella cladinicola Alstrup**

On *Cladonia arbuscula*, *C. mitis*, *C. portentosa*, *C. rangiferina*, *C. uncialis*, *C. zopfii*.

S -

N -

F U

Heuchert et al. 2018

***Taeniolella delicata M.S.Christ. & D.Hawksw.**

On *Arthonia pruinata*, *Amandinea punctata*, ?*Psilolechia lucida* (thallus).

S Sk Gtl Sm Upl?

N -

F -

Hawksworth 1979a, Heuchert et al. 2018

***Taeniolella pertusariicola D.Hawksw. & H.Mayrhofer**

On *Pertusaria carneopallida*, *P. bryontha*.

S Htj-TL

N Ak Op ST-Fi

F EnL InL

Magnusson 1952a, Alstrup & Hawksworth 1990, Heuchert et al. 2018

***Taeniolella phaeophysciae D.Hawksw.**

On *Phaeophyscia orbicularis* (thallus).

S -

N -

F OP

Hawksworth 1979a

***Taeniolella punctata M.S.Christ. & D.Hawksw.**

On *Graphis scripta* (thallus).

S Sk (Skärälid 1947 R. Santesson)

N -

F -

Hawksworth 1979a, Heuchert et al. 2018

***Taeniolella rolfii Diederich & Zhurb.**

On *Cetraria aculeata*, *C. nigricans*, *C. odontella* (thallus).

S Sm Upl Ång Hrj? TL

N (Lyng 1921: 186. *Cetraria odontella* "sometimes sorediate" Ak or Op)

F EH KiL InL

Kärnefelt 1979, Søchting & Gjelstrup 1985, Diederich & Zhurbenko 1997, Diederich & Zhurbenko 2001

***Taeniolella umbilicariae Heuchert & Etayo**

On *Umbilicaria virginis*.

S Jmt

N -

F -

Heuchert et al. 2018

***Taeniolella verrucosa M.S.Christ. & D.Hawksw.**

On *Arthonia pruinata* (thallus).

S Sk Gtl

N -

F -

Hawksworth 1979a, Tibell & Hultengren 2015, Heuchert et al. 2018

***Talpapellis beschiana (Diederich) Zhurb. et al.**

Taeniolella beschiana Diederich

On *Cladonia botrytes*, *C. coccifera*, *C. digitata*, *C. uncialis* (phyllocladia).

S Vrm Upl Hrj Nb TL

N Op

F EnL

Diederich 1992, Ihlen & Wedin 2006, Heuchert et al. 2018, Suija & Jüriado 2020

***Teloggalla olivieri (Vouaux) Nik.Hoffm. & Hafellner**

Guignardia olivieri (Vouaux) Sacc.

Laestadia olivieri Vouaux

On *Xanthoria parietina* (thallus).

S Sk-Upl Vb

N Bu Ho No

F V

Santesson 1949, Hawksworth 1975a, Santesson 1984b, Santesson 1986, Santesson 1986, Santesson 1988, Hoffmann & Hafellner 2000

Tephromela atra (Huds.) Hafellner

Lecanora atra (Huds.) Ach.

On siliceous as well as calcareous rock, sometimes on bark of deciduous trees.

S Sk-TL

N Øf-Fi

F A-Kn PeP Ks

Fries 1871, Poelt & Vězda 1981

Tephromela grumosa (Pers.) Hafellner & Cl.Roux

Lecanora atra var. *grumosa* (Pers.) Ach.

Lecanora grumosa (Pers.) Du Rietz

On siliceous rock.

S Sk-Upl Gst Hls Ång Vb

N Op

F V U St EH PH PS

Fries 1871, Westberg et al. 2015a

***Tephromela koliensis (Räsänen) Rambold & Triebel**

Nesolechia koliensis Räsänen

On *Lecanora argopholis* (thallus).

S -

N -

F PK

Rambold & Triebel 1992, Hawksworth & Atienza 1994

Tephromela pertusarioides (Degel.) Hafellner & Cl.Roux

Lecanora pertusarioides Degel.

On siliceous rock.

S Sk(?) Bh Vg Vrm

N -

F V

Degelius 1939a, Degelius 1968, Wirth 1972

Tetramelas chloroleucus (Körb.) A.Nordin

Buellia chloroleuca Körb.

Buellia poeltii T.Schauer

Tetramelas poeltii (T.Schauer) Kalb

On trunks of deciduous trees (*Alnus*, *Betula*, *Sorbus* etc.) and also on *Juniperus*.

S Dlr Hrj Jmt LyL LuL TL

N He Op AA SF ST-Tr

F PeP

Nordin 2000a, Foucard et al. 2002, Nordin 2004b, Kalb 2004

Tetramelas concinnus (Th.Fr.) Giralt

Buellia concinna Th.Fr.

Buellia nodulosa (Lyng.) H.Magn.

Buellia papillata var. *nodulosa* Lyng

Lecidea papillata var. *subviridescens* Ny. ex Th.Fr.

Lecidea perlutescens Nyl.

Buellia subconcinna (Vain.) Zahlbr.

Buellia subviridescens (Nyl. ex Th.Fr.) Vain.

On granite, etc.

S TL

N Fi

F V EnL InL?

Fries 1874, Leuckert & Mathey 1975, Scheidegger 1988, Scheidegger & Rued 1988, Scheidegger 1993, Foucard et al. 2002

Tetramelas geophilus (Flörke ex Sommerf.) Norman

Buellia geophila (Flörke ex Sommerf.) Lyng

Diplotomma geophilum (Flörke ex Sommerf.) Szatala ex D.D.Awasthi & S.R.Singh

Buellia lauricassiae auct. scand., p.p.

Buellia trifracta J.Steiner

Buellia triphragmia (Nyl.) Arnold

On more or less dead bryophytes and lichens.

S Jmt LyL-TL

N Ak-Op Te Ho ST No-Fi

F V Ks EnL

Sommerfelt 1826, Magnusson 1946, Nordin 1996a, Nordin 2000b, Foucard et al. 2002

Tetramelas insignis (Nägeli ex Hepp) Kalb

Buellia insignis (Nägeli ex Hepp) Körb., incl. v. *alboinsecta* Th.Fr.

Buellia parasema var. *muscorum* (Schaer.) Th.Fr.

On more or less dead bryophytes and lichens.

S Upl Hls Ång-TL

N Ak Op Te SF-Fi

F PeP-KiL EnL InL

Fries 1874, Malme 1927, Degelius 1945b, Foucard et al. 2002, Kalb 2004, Nordin 2004b

Tetramelas papillatus (Sommerf.) Kalb

Buellia papillata (Sommerf.) Tuck.

Buellia parasema var. *papillata* (Sommerf.) Th.Fr.

On bryophytes.

S LyL TL

N He Ho ST No-Fi

F -

Degelius 1945b, Foucard et al. 2002, Nordin 2004b, Kalb 2004

Tetramelas phaeophysciae A.Nordin & Tibell

Parasitic on saxicolous *Phaeophyscia* and *Physcia* spp.

S Dlr Jmt LyL LuL

N Tr Fi

F -

Moberg 2005, Nordin & Tibell 2005

Tetramelas pulverulentus (Anzi) A.Nordin & Tibell

Buellia convexa Th.Fr.

Leciographa muscigenae (Anzi) Rehm

Buellia pulverulenta (Anzi) Jatta

Karschia pulverulenta (Anzi) Körb.

Diplotomma pulverulentum (Anzi) Crespo & D.Hawksw.

Parasitic on *Physconia muscigena*, rarely also in *Physcia* spp. etc.

S LyL LuL TL

N Op ST Fi

F EnL

Hafellner & Poelt 1980, Nordin 1996a, Nordin 2000b, Foucard et al. 2002, Molina et al. 2002, Nordin & Tibell 2005, Puolasmaa et al. 2008

Tetramelas triphragmioides (Anzi) A.Nordin & Tibell

Buellia triphragmia subsp. *thionella* Norman

Buellia triphragmioides Anzi

On bark of, e.g., *Alnus*, *Populus tremula* and *Salix*.

S Dlr Hrj Jmt LyL LuL TL

N He-Bu SF ST No-Fi

F -

Fries 1874, Leuckert & Mathey 1975, Nordin 1996a, Nordin 2000b, Foucard et al. 2002, Nordin & Tibell 2005

Thallinocarpon nigrillum (Lettau) P.M.Jørg.

Gonohymenia nigrillum (Lettau) Henssen

Lichinella nigrillum (Lettau) Moreno & Egea

Thyrea nigrillum Lettau

On irrigated calcareous and acidic rocks.

S Ög Srm

N Ak Op Bu

F -

Degelius 1968, Vězda 1970b, Moreno & Egea 1992a, Schultz & Büdel 2002, Jørgensen 2007e, Ahti et al. 2012

Thalloidima albilabrum (Dufour) Flagey

Lecidea albilabra (Dufour in Fr.) Körb.

Psora albilabra (Dufour) Körb.

Toninia albilabra (Dufour) H.Olivier

Not in F, N or S.

Kistenich et al. 2018

Thalloidima alutaceum Anzi

Toninia alutacea (Anzi) Jatta

Toninia intermedia (A.Massal. ex Arnold) H.Olivier

On calcareous rock, inhabiting cyanolichens when young.

S Jmt LuL TL

N He Op Ho ST No-Fi

F EnL

Baumgärtner 1979, Timdal 1991

Thalloidima candidum (Weber) A.Massal.

Toninia candida (Weber) Th.Fr.

On bryophytes or directly on vertical, calcareous rock surfaces, on cyanolichens when young.

S Srm

N Ak-Bu Te Ho

F -

Baumgärtner 1979, Timdal 1991, Thor 1992b

Thalloidima diffractum (A.Massal.) A.Massal.

Toninia diffracta (A.Massal.) Zahlbr.

Not in F, N or S. Incorrectly reported from N and S.

Thalloidima opuntioides (Vill.) Kistenich et al.

Toninia opuntioides (Vill.) Timdal

On bryophytes or directly on calcareous rock or soil, associated with cyanolichens.

S Jmt PL

N Op

F -

Timdal 1991

Thalloidima physaroides (Opiz) Kistenich et al.

Toninia lurida (Arnold) H.Olivier

Toninia physaroides (Opiz) Zahlbr.

On bryophytes or directly on calcareous rock or soil, associated with cyanolichens when young.

S Sk Öl Gtl Vg Ög

N Op

F V Ks

Timdal 1991, Westberg 2012

Thalloidima rosulatum Anzi

Toninia rosulata (Anzi) H.Olivier

Terricolous and in fissures of calcareous rocks.

S Hrtj-TL

N He Op Ho-ST No-Fi

F EnL

Baumgärtner 1979, Timdal 1991

Thalloidima sedifolium (Scop.) Kistenich et al.

Toninia caeruleonigricans auct., non (Lightf.) Th.Fr.

Toninia sedifolia (Scop.) Timdal

Toninia vesicularis (Hoffm.) Boistel

On bryophytes or directly on calcareous rock or soil.

S Sk-TL

N Øf-Bu Te AA Ro Ho MR-Fi

F -

Baumgärtner 1979, Buschardt 1979, Timdal 1991

Thalloidima taurica Szatala

Toninia taurica (Szatala) Oxner

Mainly in fissures of calcareous rock, sometimes on soil, associated with cyanolichens when young.

S -

N Op

F -

Timdal 1991

***Thamnogalla crombiei (Mudd) D.Hawksw.**

Pharcidia crombiei (Mudd) Sacc. & D.Sacc.

Stegia vermicularis (Arnold) Keissl.

On *Thamnia vermicularis* (thallus).

S Öl Gtl Hrj Jmt LyL PL TL

N Op Te-Fi

F -

Santesson 1949, Magnusson 1952a, Hawksworth 1980a, Santesson 1984b, Øvstedal 1986, Ihlen 1995a

Thamnia vermicularis (Sw.) Schaer.

Hasselrot 1953a, Hakulinen 1962d, Culberson 1963, Sheard 1977, Ihlen 1995a, Kärnefelt & Thell 1995

Thamnia vermicularis (Sw.) Schaer. subsp. tundrae (Onut-Brännström & Tibell) P.M.Jørg.

Thamnia tundrae Onut-Brännström & Tibell

Terricolous, on wind-exposed heaths in alpine regions.

S Jmt

N Fi

F -

Onut-Brännström et al. 2018, Jørgensen 2019

Thamnia vermicularis (Sw.) Schaer. subsp. vermicularis

Thamnia subuliformis (Ehrh.) Culb.

Thamnia subvermicularis Asahina

Thamnia vermicularis (Sw.) Schaer. var. *subuliformis* (Ehrh.) Schaer.

Terricolous, mainly on wind-exposed heaths in alpine regions and on limestone pavements (alvar).

S Öl Gtl Dlr Hrj-TL

N He-Bu Te Ro-Fi

F SoL-InL

Hasselrot 1953a, Hakulinen 1962d, Culberson 1963, Sheard 1977, Ihlen 1995a, Kärnefelt & Thell 1995

Thelenella modesta (Nyl.) Nyl.

Microglæna modesta (Nyl.) A.L.Sm.

Thelenella modesta var. *grisella* (Nyl.) Kickx

Phlyctis norvegica Norman

Microglæna wallrothiana Körb.

Microglæna wallrothiana var. *septentrionalis* Th.Fr.

On smooth bark of Sorbus, Betula, Salix, Alnus, etc.

S Dls-Ång

N Ak

F EH

Norman 1884, Høeg 1923, Mayrhofer & Poelt 1985, Mayrhofer 1987b

Thelenella muscorum (Fr.) Vain.

Verrucaria muscicola Nyl.

Chromatochlamys muscorum (Fr.) H.Mayrhofer & Poelt

Microglæna muscorum (Fr.) Th.Fr.

Magnusson 1946, Mayrhofer & Poelt 1985, Mayrhofer 1987b

Thelenella muscorum (Fr.) Vain. var. muscorum

Microglæna leucothelioides (Vain.) Zahlbr.

Chromatochlamys muscicola (Ach. ex Nyl.) Trevis.

Microglæna muscicola Lönnr.

Chromatochlamys muscorum var. *muscorum* (Fr.) H.Mayrhofer & Poelt

On bryophytes on rock or soil.

S Sk-LuL

N Ak Te Ho SF ST No Tr

F V EH PH PK

Magnusson 1946, Mayrhofer & Poelt 1985, Mayrhofer 1987b

Thelenella muscorum (Fr.) Vain. var. octospora (Nyl.) Coppins & Fryday

Microglæna bella Th.Fr.

Microglæna cimbrica Th.Fr. in Grönlund nom, nom. nud.

Chromatochlamys muscorum var. *octospora* (Nyl.) H.Mayrhofer & Poelt

On dead bryophytes, lichens and plant debris.

S Upl TL

N Op

F Kn

Morgan-Jones & Swinscow 1965, Mayrhofer & Poelt 1985, Mayrhofer 1987b, Alstrup 1991, Fryday & Coppins 2004

Thelenella pertusariella (Nyl.) Vain.

Gyalidea fruticola M.Svensson & G.Thor

Microglaena pertusariella (Nyl.) Norman

Verrucaria pertusariella Nyl.

Phlyctis submuriformis H.Magn.

On soft bark of deciduous trees and shrubs.

S Ög Srm Vsm Upl Dlr Hls Hrj Jmt ÅsL LyL TL

N Op Te SF Tr Fi

F U EnL

Magnusson 1946, Mayrhofer & Poelt 1985, Mayrhofer 1987b, Svensson & Thor 2007, Pykälä 2008, Stridvall & Stridvall 2008, Svensson et al. 2017b

Thelidiopsis lapponica Servit

On acidic rocks.

S LyL (Tärna 1924 Magnusson)

N -

F -

A very uncertain sp., a parasymbiont?

Servit 1955

Thelidium acrotelloides Servit

On calcareous schist in a shaded place.

S Jmt (Jorm 1934 Magnusson)

N -

F -

A doubtful species.

Magnusson 1935e, Servit 1953

Thelidium acrotellum Arnold

Thelidium ochrobaeum Norman ex Zschacke

On siliceous rocks in shade.

S -

N Ho SF Tr

F -

Zschacke 1920, Zschacke 1933c

Thelidium aethioboloides Zschacke

On siliceous rocks by streams and lakes.

S LyL TL

N -

F -

Zschacke 1933c, Nordin 2002b

Thelidium anisomerum Hellb.

Thelidium "anisomoron"

On calcareous rocks.

S Gtl (Lindeklint 1857 Stenhammar, 1863 Hellbom)

N -

F -

Hellbom 1871a

Thelidium antonellianum Bagl. & Carestia

On crystalline schist.

S TL (Vassitjåkko 1921 Magnusson)

N -

F -

Zschacke 1933c, Magnusson 1952a

Thelidium aphanes J.Lahm

On pebbles on calcareous rock.

S -

N -

F V (Särkisalo 2008, Pykälä)

Pykälä 2010a

Thelidium auruntii (A.Massal.) Kremp.

On dolomite pebbles.

S ?

N ?

F EnL

Breuss 2004, Pykälä 2010c

Thelidium austriacum Zschacke

On calcareous rock in old lime quarries.

S -

N -

F V

Zschacke 1933c, Pykälä 2008

Thelidium calcivorum (Nyl.) Hulting

On calcareous rocks.

S Dls (Ryr, Hulting)

N -

F -

Determ. uncertain.

Hulting 1900

Thelidium coriicola H.Magn.

On old leather.

S Vg (V. Frölunda 1942 Magnusson)

N -

F -

Magnusson 1942a

Thelidium decipiens (Nyl.) Kremp.

Thelidium absconditum (Hepp) Rabenh.

Thelidium amylaceum auct.

Thelidium crassum A.Massal.

Thelidium immersum (Leight.) Mudd

On calcareous rocks.

S ÖI-TL

N Ak Ho No

F A V PS EnL

Malme 1918a, Zschacke 1933c, Degelius 1955b, Fröberg 1989

Thelidium decussatum Zschacke

On dolomite.

S -

N -

F EnL (Saana 2007, Pykälä)

Pykälä 2010c

Thelidium epipolaeum A.Massal.?

On calcareous rocks.

S Gtl (Stenhammar) Ög (Theorin)

N -

F -

Very doubtful identifications.

Theorin 1875, Körber 1859-1865

Thelidium fontigenum A.Massal.

Thelidium cataractarum (Hepp) Lönnr.

Thelidium microbolum auct. europ., non (Tuck.) Hasse

On and calcareous rocks and dolomite.

S Gtl Vg TL

N Ho ST NT

F V EnL

Magnusson 1952a, Purvis et al. 1992

Thelidium impressum (Stizenb.) Zschacke

On pebbles in limestone quarry.

S ÖI

N -

F EP (Kurikka 2011, Pykälä)

Pykälä 2013, Bekking & Aptroot 2017

Thelidium incavatum Mudd

On calcareous rocks.

S Sk-Srm Dlr LyL LuL TL

N Ak No Tr Fi

F V U

Malme 1918a, Zschacke 1933c, Degelius 1955b, Elvebakk & Bjerke 2006, Pykälä 2007

Thelidium incinctum (Vain.) Vain.

Verrucaria pyrenophora var. *incincta* Vain.

On gneiss rock.

S -

N -

F Ks (Porontimajärvi Silén)

Vainio 1921, Zschacke 1934

Thelidium lapponicum (Servít)

Involucrothele lapponica Servít

On siliceous rocks by a stream.

S LyL (Björkfors 1924 Magnusson 8142)

N -

F -

A doubtful species.

Servít 1953

Thelidium larianum A.Massal.

On dolomite.

S -

N -

F Ks (Kuusamo 2009, Pykälä)

Pykälä 2010b

Thelidium magnussonii (Servít)

Involucrothele magnussonii Servít

On seashore rocks.

S Bh (Älgön 1923 Magnusson 7422)

N -

F -

A doubtful species.

Servít 1953

Thelidium methorium (Nyl.) Hellb.

Thelidium aeneovinosum (Anzi) Arnold

On rock in streams, etc.

S Hrj-TL

N Bu Ho-ST NT No-Fi

F Ks

Vainio 1921, Zschacke 1933c, Magnusson 1952a, Degelius 1955b, Botnen & Tønsberg 1988, Orange 1993

Thelidium microstictum Vain.

On calcareous rock precipice.

S -

N -

F V (Kaukasalo Vainio)

Vainio 1921

Thelidium minimum (A.Massal. ex Körb.) Arnold

Verrucaria peloclitoides Vain.

On calcareous rocks.

S -

N -

F ES PeP

Vainio 1921, Himelbrant et al. 2013

Thelidium minutulum Körb.

Thelidium aethioboloides (Nyl.) Vain.

Verrucaria intercedens var. *aethioboloides* Nyl.

Verrucaria mesotropa Nyl.

Thelidium mesotropum (Nyl.) A.L.Sm.

Thelidium parvulum Arnold

Saxicolous.

S Srm ("Ög") Jmt

N No Tr

F V

Vainio 1921, Zschacke 1933c, Pykälä 2008, Thüs & Nascimbene 2008

Thelidium olivaceonitens Vain.

On gneiss.

S -

N -

F PS (Kuopio Linkola)

Vainio 1921

Thelidium olivaceum (Fr.) Körb.

On calcareous rocks.

S -

N -

F V ES

Pykälä 2007

Thelidium papulare (Fr.) Arnold

Thelidium sprucei Lönnr.

Thelidium sprucei subsp. *gymnobolum* Norman

On calcareous rocks, calcareous schist, etc.

S Öl Gtl Vg-TL

N Ak Ho SF ST No Tr

F V EH

Fries 1865a, Vainio 1921, Zschacke 1933c, Pykälä 2010a

Thelidium perminutum Keissler

Probably a *Collemopsidium* sp.

Thelidium piceum Zschacke ex H.Magn.

On a hard, slaty, non-calcareous rock.

S Dls (Dalskog 1928 Magnusson)

N -

F -

Magnusson 1932a, Zschacke 1933c

Thelidium pluvium Orange

Saxicolous.

S -

N Ho ST Tr

F -

Orange 1991c, Jørgensen 1996, Elvebakk & Bjerke 2006

Thelidium pyrenophorum (Ach.) Mudd

Thelidium nylanderi (Hepp) Lönnr.

Thelidium viride (Deakin) Zahlbr.

On calcareous rocks and dolomite.

S Sk-TL

N Ak He Te Ho No Tr

F V

Vainio 1921, Zschacke 1933c, Magnusson 1952a, Pykälä 2007

Thelidium rehmi Zschacke

On a calcareous rock and on mica schist.

S HI LyL

N Ak

F -

A doubtful species.

Zschacke 1933c, Magnusson 1946

Thelidium rimosulum Ceyn.-Gield.

On pebbles in lime quarry.

S -

N -

F V (Lohja 2006, Pykälä)

Pykälä 2010a

Thelidium scotodes (Nyl.) Arnold

On schistose seashore rocks.

S -

N Tr (Lyngenfjord, Norrlin)

F -

Vainio 1921, Jørgensen & Nordin 2009

Thelidium sordidum Th.Fr.

On sandstone.

S -

N Fi (Varanger 1864 Th. Fries)

F -

Probably a *Verrucaria* sp.

Fries 1866a, Jørgensen & Nordin 2009

Thelidium subcataractarum (Servít)

Involucrothele subcataractarum Servít

On sandstone.

S Vg (Broddetorp 1938 Magnusson 12285)

N -

F -

A doubtful species.

Servít 1953

Thelidium submethorium (Vain.) Zahlbr.

On siliceous rock.

S -

N -

F EnL (Saana 2007, Pykälä)

Pykälä 2010c

Thelidium subpapulare Zschacke

On low stone.

S LyL (Tärna 1924 Magnusson)

N -

F -

Magnusson 1946

Thelidium subsiduum (Nyl.) Zahlbr.

On calcareous rocks.

S Gtl (locality not reported, Zetterstedt)

N -

F -

Nylander 1883

Thelidium umbilicatum Th.Fr.

On limestone.

S Vg

N Ak

F -

Fries 1865a

Thelidium umbrosum A.Massal.

On calcareous rocks.

S Gtl Vg Nrk

N -

F Ks

Zschacke 1933c, Pykälä 2010b

+Thelidium xyloderma Norman

Lignicolous.

S -

N Op (Land 1880 Norman)

F -

A non-lichenized fungus.

Norman 1884, Jørgensen & Nordin 2009

Thelidium zwackhii (Hepp) A.Massal.

Thelidium fuistingii auct.

Thelidium microcarpum (Davis ex Leight.) A.L.Sm.

Thelidium velutinum auct., p.p.

Thelidium xylospilum (Nyl.) Zschacke

On calcareous rocks and soil, and lignum.

S Sk Ög Nrk Vsm-Hls

N Ak Ho

F V

Vainio 1921, Zschacke 1933c

Thelignya lignyota (Wahlenb.) P.M.Jørg. & Henssen

Porocyphus dispersus Å.E.Dahl

Verrucaria fuliginea Ach.

Psorotichia lignyota (Wahlenb.) Forssell

Verrucaria lignyota Wahlenb.

Psorotichia ocellata (Th.Fr.) Forssell

Pyrenopsis ocellata Th.Fr.

Porocyphus ocellatus (Th.Fr.) Henssen

Pyrenopsis umbilicata Vain., uncertain synonym

On siliceous rocks, schist, etc. especially in shaded places.

S Bh Jmt LyL LuL TL

N MR ST No-Fi

F EH PeP Ks?

Magnusson 1937, Henssen 1963a, Henssen 1966, Henssen & Jørgensen 1990, Jørgensen 2007c, Ahti et al. 2012

Thelocarpon depressellum Vain.

Ahlesia depressella (Vain.) H.Magn.

On decaying wood.

S Vrm Upl Dlr

N -

F Kn

Magnusson 1935c, Muhr 1987a, Thor 2015, von Hirschheydt et al. 2021

Thelocarpon epibolum Nyl.

Thelocarpon conoidellum Nyl.

Thelocarpon subprasinellum Nyl. ex Hulting, nom. nud.

On (partly dead) lichens, such as *Peltigera*, *Solorina*, *Baeomyces*, etc. and on decaying wood, on peat, etc.

S Sk-TL

N Ak Op Bu Ho SF ST-Fi

F V-Kn PeP-InL

According to Santesson et al. (2004), var. *epithallinum* is the most common variety in S and N.

Magnusson 1935c, Salisbury 1966, Ahti 1973b, Hafellner 1993b, Ihlen 1998, Puolasmaa et al. 2012

Thelocarpon epibolum Nyl. var. epibolum

Orange et al. 2009

Thelocarpon epibolum var. epithallinum (Leight.) G.Salisb.

Thelocarpon epibolum f. *longisporum* H.Magn.

Thelocarpon epithallinum Leight.

Orange et al. 2009

Thelocarpon impressellum Nyl.

Ahlesia impressella (Nyl.) G.Salisb.

On bryophytes, more or less dead lichens, decaying wood, on rocks, etc.

S Sk ÖI-TL

N Op No Tr Fi

F V EH Ks InL

Not lichenized?

Magnusson 1935c, Salisbury 1966, Salisbury 1974, Elvebakk & Bjerke 2006

Thelocarpon intermediellum Nyl.

On decaying wood, found also on dung.

S Dls Srm-Dlr

N Vf

F V-EH

Magnusson 1935c, Salisbury 1966

Thelocarpon laureri (Flot.) Nyl.

Thelocarpon epilithellum Nyl.

Thelocarpon prasinellum Nyl.

On rock, lignum and soil in sites with low competition from other lichens.

S Sk Bl Bh Ög Vrm Vsm Dlr Gst Hls LyL

N -

F EH

Magnusson 1935c, Salisbury 1966, Westberg et al. 2008a, Hemberg 2014

Thelocarpon lichenicola (Fuckel) Poelt & Hafellner.

Thelocarpon applanatum H.Magn.

Ahlesia lichenicola Fuckel

Thelocarpon strasseri Zahlbr.

On soil, decaying wood, lichens (Baeomyces), etc.

S Dls Vg Srm Vrm Vsm Upl Dlr Hls Jmt

N Ak Ro-SF NT

F U PK

Not lichenized?

Magnusson 1935c, Salisbury 1974, Ihlen 1998, Berglund & Andersson 2008

Thelocarpon pallidum G.Salisb.

Not in F, N or S. The report from Norway (Øvstedal 1986, p. 20) refers to *Caeruleum heppii*.

Thelocarpon saxicola (Zahlbr.) H.Magn.

On siliceous boulder in stone-fence.

S Vg (Brunnhem 1984 Leif Andersson)

N -

F -

Magnusson 1935c

Thelocarpon sphaerosporum H.Magn.

Ahlesia sphaerospora (H.Magn.) G.Salisb.

On bryophytes and soil.

S Upl Jmt TL

N Op Fi

F EnL

Magnusson 1935c, Salisbury 1974, Westberg et al. 2016, Pykälä 2018

Thelocarpon superellum Nyl.

On decaying wood.

S Vg-Vrm

N Ho MR

F St EH PH-PK Kn PeP

Magnusson 1935c, Salisbury 1966, Olsen & Tønsberg 2016

Thelopsis flaveola Arnold

On shaded bark of deciduous trees and *Picea*.

S Sm Hl Bh Vg Upl Gst Ång Hrj ÅsL LyL

N Ro Ho

F -

Arvidsson et al. 1988, Bohlin & Geijer 1989, Thor 1992a, Moberg & Thor 1993, Arup et al. 1997, Thor & Arvidsson 1999

Thelopsis melathelia Nyl.

Thelopsis umbratula Nyl.

On living or dead bryophytes (on the ground or on rock) and on plant debris.

S Ög Vrm Vsm Mpd Hrj-TL

N Ho No Tr

F Ks

Theorin 1875, Vainio 1921, Vězda 1968

Thelopsis rubella Nyl.

On bark of deciduous trees or on rock in shaded and damp sites.

S Sk Bl Ö1 HI Bh Vg Hrj

N Ro Ho

F -

Vězda 1968, Botnen 1984, Botnen & Tønsberg 1988, Arup & Ekman 1991b, Arup et al. 1997, Thor & Arvidsson 1999, Hemberg 2011

Thelotrema lepadinum (Ach.) Ach.

On bark of deciduous trees and *Picea abies*, rarely on rock.

S Sk-Hls

N Øf Ak Bu-NT

F A U

Almborn 1948, Laundon 1981, Ingelög et al. 1987, Blom et al. 2015

Thelotrema macrosporum P.M.Jørg. & P.James

Thelotrema monosporum auct., non Nyl.

On smooth bark, primarily of *Corylus*, sometimes *Fraxinus* or *Sorbus*.

S -

N Ro Ho SF

F -

Salisbury 1975, Bailey & James 1977, Jørgensen 1996

Thelotrema suecicum (H.Magn.) P.James

Ocellularia suecica H.Magn.

On basal parts of stems of *Corylus avellana* in shaded and moist localities, rarely on *Tilia*.

S Gtl Bh Vg NrK Upl

N Ak Vf-MR

F -

Almborn 1948, Salisbury 1972, Bailey & James 1977, Thor & Arvidsson 1999, Hultengren & Stenström 2007

Thermutis velutina (Ach.) Flot.

Gonionema velutinum (Ach.) Nyl.

On more or less dry calcareous rocks and on moist acidic or basic rocks.

S Bl-TL

N Ak Op Bu Ho ST No Tr

F A-U St-ES PS PK Ks

Jørgensen 2007e, Ahti et al. 2012

Tholurna dissimilis (Norman) Norman

On the tops and on upper branches of small spruces (*Picea abies*) near the timberline.

S Dlr-PL
N He-Bu Te ST-No
F -

Ahlner 1948, Kilander 1952, Jørgensen & Ryvarden 1970, Østhagen 1974, Tønsberg 1979, Tibell 1980b, Otto 1983, Thor & Arvidsson 1999, Tibell 1999a, Larsson 2020c

Thrombium ebeneum Norman

Terricolous, on mossy soil.

S -
N Vf (Larvik, Norman)
F -

Uncertain status.

Norman 1884, Jørgensen & Nordin 2009

Thrombium epigaeum (Pers.) Wallr.

Verrucaria epigaea var. *bryina* Nyl.

On clayey or sandy soil, sometimes on bryophytes or plant debris.

S Sk-TL
N Ak-Vf Ho MR ST No-Fi
F V-EK EH ES PH-PK PeP Ks EnL InL

Vainio 1921, Swinscow 1964

Thyrea confusa Henssen

Thyrea pulvinata auct., non (Schaer.) A.Massal.

On calcareous rocks.

S Öl Gtl Dls Srm
N Ak-Bu Te Ho
F -

Degehus 1968, Henssen & Jørgensen 1990, Jørgensen 2007e, Ahti et al. 2012

Timdalia intricata (H.Magn.) Hafellner

Acarospora intricata H.Magn.

Mainly on metal-rich, siliceous or slightly calcareous rock.

S Hrij Jmt LuL TL
N He Op Ro Ho ST Tr
F -

Magnusson 1935c, Timdal 1984c, Timdal 1987a, Hafellner & Türk 2001

Toensbergia leucococca (R.Sant.) Bendiksby & Timdal

Ochrolechia dispersa R.Sant. nom. nud.

Hypocenomyce leucococca R.Sant.

Pycnora leucococca (R.Sant.) R.Sant.

On the bark of various deciduous trees (*Betula*, *Alnus*, *Sorbus*, etc).

S Vrm-TL
N AA-Fi
F ES PK Kn PeP-KiL InL

Moberg 1986, Tønsberg 1992b, Santesson et al. 2004

Toninia cinereovirens (Schaer.) A.Massal.

On calcareous rock.

S -

N Ak Op

F -

Baumgärtner 1979, Timdal 1991

***Toninia plumbina (Anzi) Hafellner & Timdal**

Bacidia plumbina (Anzi) R.Sant.

Lahmia plumbina (Anzi) Keissl.

Leciographa plumbina Anzi

On *Degelia plumbea* (thallus).

S Sm Bh Vg Gst Jmt LyL

N Ak Bu-AA Ro-ST No

F -

Santesson 1960, Timdal 1991, Thor & Arvidsson 1999

Toninia populorum (A.Massal.) Kistenich et al.

Arthrosporium accline (Flot.) A.Massal.

Bacidia acclinis (Flot.) Zahlbr.

Arthrosporium populorum A.Massal.

Bacidia populorum (A.Massal.) Trevis.

Bilimbia populorum (A.Massal.) Vain.

Mainly on bark of *Populus tremula*, but also on *Syringa*, *Salix*, *Alnus*, *Sorbus aucuparia*, etc.

S Sk-Ång Jmt

N Ak He ST

F V U St-KP PeP

Fries 1874, Vainio 1922

Toninia squalecens (Nyl.) Th.Fr.

Thalloidima rimulosum Th.Fr.

On bryophytes, mainly on *Andreaea* in alpine areas.

S Ång-TL

N Bu AA Ho-Fi

F -

Is not a *Toninia*. Genus uncertain.

Baumgärtner 1979, Timdal 1991

Toninia squalida (Ach.) A.Massal.

Toninia cinereovirens var. *verruculosa* Th.Fr.

Toninia havaasii H.Magn.

Toninia multiseptata Anzi

Lecidea norvegica Sommerf.

Toninia squarrosa (Ach.) Th.Fr.

Toninia verruculosa (Th.Fr.) Vain.

On soil and bryophytes, usually on calcareous rock or soil, when young sometimes associated with cyanolichens.

S Vg-Upl Htj-TL

N He Op Te AA Ho-Fi

F Kn Ks InL

Baumgärtner 1979, Tindal 1991

Toninia subaromatica (Vain.) H.Olivier

Lecidea subaromatica Vain.

On bryophytes.

S -

N -

F Ks

Identity uncertain; not a *Toninia* s.str.

Tindal 1991

***Toninia subfuscae (Arnold) Tindal**

Bacidia subfuscae (Arnold) Clauzade & Cl.Roux

Bilimbia subfuscae (Arnold) Arnold

Mycobilimbia subfuscae (Arnold) Rehm

On *Lecanora campestris* (thallus).

S LyL (Tärna 1924 Magnusson)

N -

F -

Giralt Esteve 1986, Tindal 1991

Toninia thiopsora (Nyl.) H.Olivier

Toninia pulvinata (Taylor) H.Olivier

On decaying bryophytes on acidic rocks or boulders in damp sites.

S -

N Ho-MR NT

F -

Is not a *Toninia*. Genus uncertain.

Baumgärtner 1979, Tønsberg & Øvstedal 1982, Tindal 1991

Toninia tristis (Th.Fr.) Th.Fr. subsp. tristis

Toninia tabacina auct. non (DC.) Flagey

Terricolous or in fissures of calcareous rocks.

S -

N He Op ST

F -

Fries 1874, Magnusson 1957, Kleiven 1959, Baumgärtner 1979, Timdal 1991

Toniniopsis aromatica (Sm.) Kistenich et al.

Lecidea acervulata Nyl.

Toninia acervulata (Nyl.) Kremp.

Toninia aromatica (Sm.) A.Massal.

Toninia conjugens Th.Fr., reported from Jmt

Toninia fusispora (Körb.) Th.Fr.

On more or less calcareous soil and rock (very rarely on bark), on various lichens at least when young.

S Sk Öl Gtl Ög-UpI Dlr Jmt-TL

N Øf-Te Ho ST No-Fi

F Ks EnL

Baumgärtner 1979, Timdal 1991, Hermansson 2008a

Toniniopsis bagliettoana (A.Massal. & De Not.) Kistenich & Timdal

Bacidia bagliettoana (A.Massal. & De Not.) Jatta

Bacidia muscorum (Sw.) Mudd

Bacidia viridescens (A.Massal.) Th.Fr.

Patellaria viridescens (A.Massal.) Müll.Arg.

Raphiospora viridescens A.Massal.

Scoliosporum viridescens (A.Massal.) A.Massal.

On bryophytes and plant debris (often on calcareous ground).

S Sk-TL

N Øf Ak Op Bu Te Ho SF ST No-Fi

F A-U EH PH-PK OP Ks EnL InL

Fries 1874, Wetmore 1968, Lumbsch 1991

Toniniopsis coelestina (Anzi) Kistenich et al.

Toninia coelestina (Anzi) Vězda

On soil, bryophytes, or on cyanolichens on calcareous rock.

S -

N He Op

F -

Timdal 1991

Toniniopsis coprodes (Körb.) S.Ekman & Coppins

Bacidia coprodes (Körb.) Lettau

On calcareous or enriched siliceous rocks.

S Vg-Nrk Vrm Hls Jmt Lyl LuL

N No Tr

F EH

Llop & Ekman 2007, Berglund & Andersson 2008

Toniniopsis dissimilis Gerasimova & A.Beck

On bark of deciduous trees.

S Srm
N Tr
F EH

Gerasimova et al. 2021

Toniniopsis illudens (Nyl.) Kistenich et al.

Bacidia atosanguinea var. *irrorata* Th.Fr.

Bacidia atosanguinea var. *alpina* (Stizenb.) Th.Fr.

Bacidia illudens (Nyl.) Lyngé

Bacidia muscorum var. *irrorata* (Th.Fr.) Vain.

Bacidia suballinita sensu Magnusson, p.p.

Terricolous on bryophytes or on soil.

S Htj-TL
N Ho Tr Fi
F Ks

Fries 1874, Vainio 1922

Toniniopsis inornata (Nyl.) S.Ekman & Coppins

Bacidia inornata (Nyl.) Blomb. & Forssell

Lecidea inornata Nyl.

On sandstone in shaded sites.

S Ång
N -
F St EH

Vainio 1922

Toniniopsis separabilis (Nyl.) Gerasimova & A.Beck

Bacidia affinis (Stizenb.) Vain.

Bacidia atosanguinea var. *corticola* Th.Fr.

Bacidia hegetschweileri (Hepp) Vain.

Bacidia populicola Vězda, nom. nud.

Bacidia separabilis (Nyl.) Arnold

Lecidea separabilis Nyl.

Bacidia sparsa Kullh.

Bacidia subarctoa Th.Fr.

Bacidia subincompta auct. p.p.

Bacidia vegeta Vain.

On deciduous trees (*Populus tremula*, *Salix*, etc.), rarely on conifers, on rocks or on soil.

S Sk-TL
N Øf-Bu AA Ro-Fi
F A-InL

Holien & Hilmo 1991, Ekman 1996, Gerasimova et al. 2021

Toniniopsis verrucarioides (Nyl.) Kistenich et al.

Toninia aromatica var. *cervina* (Lönnr.) Th.Fr.

Toninia cervina Lönnr.

Toninia verrucarioides (Nyl.) Timdal

On calcareous rock, sometimes on soil, associated with cyanolichens, particularly *Placynthium* spp.

S ÖI Gtl Vg Srm Jmt

N He-Bu ST-Tr

F -

Timdal 1991

Trapelia coarctata (Sm.) M.Choisy

Lecanora coarctata (Sm.) Ach.

Biatora coarctata subsp. *terrula* Hulting

Lecidea coarctata (Sm.) Nyl.

Primarily on siliceous rock (sometimes pebbles) in damp sites, rarely on soil or decaying bryophytes.

S Sk-TL

N Ak Op-Vf AA Ro-Fi

F A-U St-ES PH PK-Kn PeP EnL InL

Hertel 1969a, Hertel 1970c, Hertel 1977a

Trapelia corticola Coppins & P.James

On bark of deciduous trees, rarely on lignum or bryophytes.

S Sk Sm Hl Bh Dls

N Øf VA-SF ST-Tr

F -

Coppins & James 1984, Gustavsson 1989, Tønsberg 1992b

Trapelia elachista (Ach.) Orange

Lecidea coarctata var. *elachista* (Ach.) Th.Fr.

Parmelia elacista Ach.

Trapelia elacista (Ach.) Orange, orth. var.

Saxicolous.

S ?

N ?

F A?

The application of var. *elachista* in the Nordic countries is uncertain. The epithet is sometimes spelled "elacista".

Pykälä 2018, Orange 2018

Trapelia glebulosa (Sm.) J.R.Laundon

Lecanora coarctata var. *ornata* Sommerf.

Parmelia coarctata b. *microphyllina* Fr.

Trapelia involuta (Taylor) Hertel

Trapelia ornata (Sommerf.) Hertel

On siliceous rock, schist, tiles, etc., rarely on acidic soil.

S Sk-TL

N Øf Ak Bu Ro Ho ST-Tr

F V U EH ES

Hertel 1970c, Jørgensen 1972a, Hertel 1973, Hertel 1977a, Botnen 1984, Laundon 2005

Trapelia obtogens (Th.Fr.) Hertel

Biatora coarctata subsp. *obtegens* Th.Fr.

On siliceous rocks, boulders and pebbles, sometimes on soil, tiles, etc.

S Sk Sm Hl Bh Vg Vrm Upl Dlr Hls

N Ak Bu Te Ro Ho

F V EH Kn

Hertel 1970c, Jørgensen 1972a

Trapelia placodioides Coppins & P.James

On siliceous or calcareous rocks, tiles, old leather, etc.

S Sk-TL

N Øf Ak Ro Ho No

F V U Kn

Coppins & James 1984

Trapeliopsis flexuosa (Fr.) Coppins & P.James

Lecidea aeruginosa Borrer

Biatora flexuosa Fr.

Lecidea flexuosa, sensu Vain., non Fr.

Lecidea granulosa subsp. *flexuosa* (Fr.) Th.Fr.

Lecidea sapinea (Fr.) Zahlbr., non sensu Vain.

On lignum, sometimes on acidic tree bark.

S Sk-TL

N Øf-Fi

F A-Kn PeP InL

Coppins & James 1984, Tønsberg 1992b

Trapeliopsis gelatinosa (Flörke) Coppins & P.James

Trapeliopsis aeneofusca (Flörke ex Flot.) Coppins & P.James

Lecidea gelatinosa Flörke

Micarea gelatinosa (Flörke) Brodo

On dead bryophytes and on soil, especially on seepages.

S Sk-Nrk Srm Upl-Hls

N Øf Ak Op Bu Ho ST-No

F V EH PH

Vězda et al. 1976, Coppins & James 1984

Trapeliopsis glaucolepidea (Nyl.) Gotth.Schneid.

Lecidea glaucolepidea Nyl.

Lecidea percrenata Nyl.

Trapeliopsis percrenata (Nyl.) Gotth.Schneid.

On decaying lignum and an old stump of oak.

S Sk ÖI Sm Bh Ög Nrk-Vrm Upl Dlr Hls Ång

N Øf Bu Op ST NT

F V

Sochting 1980, Thor 1982, Coppins & James 1984, Muhr 1987a, Holien 1994, Palice 1999, Schneider 1980

Trapeliopsis granulosa (Hoffm.) Lumbsch

Biatora decolorans (Hoffm.) Fr.

Lecidea decolorans (Hoffm.) Flörke

Biatora granulosa (Hoffm.) Flot.

Lecidea granulosa (Hoffm.) Ach.

Trapelia granulosa (Hoffm.) V.Wirth

Lecidea quadricolor (Dicks.) Borrer

On soil rich in humus.

S Sk-TL

N Øf-SF ST-Fi

F A-InL

Laundon 1965, Tønsberg 1992b

Trapeliopsis pseudogranulosa Coppins & P.James

On bryophytes, peaty soil and plant debris in damp sites, rarely on tree bark.

S Sk-Hls TL

N Øf-He Bu-No Tr

F A-U EH PH

Coppins & James 1984, Tønsberg 1992b, Elvebakk & Bjerke 2006

Trapeliopsis wallrothii (Flörke ex Spreng.) Hertel & Gotth.Schneid.

Biatora glebulosa Fr.

Lecidea wallrothii Flörke

On thin soil on sun-exposed rocks.

S Bh Vg

N AA-SF No

F -

Magnusson 1932a, Hertel 1970c, Øvstedal 1979, Thor & Arvidsson 1999, Schneider 1980

Trapeliopsis viridescens (Schrad.) Coppins & P.James

Lecidea viridescens (Schrad.) Ach.

Micarea viridescens (Schrad.) Brodo

On decaying wood in spruce forest.

S Sk Vg Upl Dlr Hls Ång

N Ho ST

F EH

Coppins & James 1984, Holien 1992b, Hermansson 2008a

***Tremella anaptychia J.C.Zamora & Diederich**

On the thallus of *Anaptychia ciliaris*.

S Gtl

N -

F -

Zamora et al. 2017

***Tremella caloplacae (Zahlbr.) Diederich**

On *Calogaya decipiens*, *Rusavskia elegans*, *Xanthoria parietina* (apothecia, thallus).

S Ög TL

N Op

F -

Millanes et al. 2014, Thell et al. 2014

***Tremella candelariellae Diederich & Etayo**

On *Candelariella vitellina*, *C. xanthostigma* (thallus).

S Vg Srm Upl Gst Hrj Jmt

N -

F V U EH

Diederich 1996, Westberg et al. 2008b, Svensson & Westberg 2010

***Tremella celata J.C.Zamora et al.**

On *Ramalina fraxinea* (thallus).

S Vg

N -

F -

Zamora et al. 2016

***Tremella cetrariellae Millanes et al.**

On *Cetrariella delisei* (thallus).

S Jmt TL

N Fi

F OP PeP EnL InL

Millanes et al. 2015, Suija & Jüriado 2020

***Tremella cetrariicola Diederich & Coppins**

On *Tuckermannopsis chlorophylla* (thallus).

S Vrm Upl Dlr Ång Jmt Nb ÅsL

N ST-No

F EH PS OP PeP

Thor 1992a, Jansson et al. 1994, Diederich 1996, Pippola & Kotiranta 2008

***Tremella christiansenii Diederich**

On *Physcia* spp.

S Upl

N -

F -

Ekman et al. 2019a

***Tremella cladoniae Diederich & M.S.Christ.**

On Cladonia sp. (thallus).

S Öl Bh Dls

N -

F V

Diederich 1996, Pippola & Kotiranta 2008, Westberg & Thor 2014

***Tremella coppinsii Diederich & G.Marson**

On Platismatia glauca (thallus).

S Bh Dls Vg Vrm Upl Dlr Jmt

N Ho NT No

F -

Santesson 1988, Diederich & Marson 1988, Diederich 1996, Millanes et al. 2014, Millanes et al. 2014

***Tremella diploschistina Millanes et al.**

On Diploschistes scruposus.

S Öl Dls Srm Upl

N -

F -

Millanes et al. 2012

***Tremella huuskonenii Diederich et al.**

Hyperparasitic on Phacopsis huuskonenii on Bryoria spp.

S -

N -

F Kn KiL

Lindgren et al. 2015

***Tremella hypocenomycis Diederich**

On Hypocenomyce scalaris (thallus).

S -

N -

F PeP (Pello 1867 Norrlin)

Diederich 1996

***Tremella hypogymniae Diederich & M.S.Christ.**

On Hypogymnia physodes (thallus).

S Sk Bh Dls Vrm Upl Dlr Mpd Jmt Nb PL TL

N Op ST Tr

F A-KP OP KiL EnL InL

Diederich 1996, Alstrup et al. 2008, Pippola & Kotiranta 2008

***Tremella lichenicola Diederich**

On Violella fucata (thallus).

S Sm-Upl Dlr Nb LuL

N Øf-He Bu Te VA-SF ST-No

F V

Coppins & James 1979b, Diederich 1986, Arvidsson et al. 1988, Diederich 1996, Westberg et al. 2008a, Thor 2015

***Tremella lobariacearum Diederich & M.S.Christ**

On Lobaria pulmonaria.

S -
N Ho
F -

Westberg et al. 2015a

***Tremella macrobasidiata J.C.Zamora et al.**

On Lecanora chlarotera.

S Öl Gtl Vrm Upl
N -
F -

Zamora et al. 2011, Ekman et al. 2019a

***Tremella macroceratis Diederich & Hafellner**

On Cladonia macroceras. (thallus).

S -
N SF (Luster, Harvassbu 1984 Hafellner & Ochsenhofer)
F -

Diederich 1996

***Tremella mayrhoferi J.C.Zamora et al.**

On Lecanora allophana (apothecia).

S Sm Vg Srm Vrm Upl Hls Ång
N Ak
F V KP

Zamora et al. 2018

***Tremella pertusariae Diederich**

On Pertusaria hymenea (apothecia, thallus) and P. pertusa (thallus).

S Sk Öl Sm
N -
F -

Diederich 1996, Millanes et al. 2014

***Tremella phaeophysciae Diederich & M.S.Christ.**

On Phaeophyscia orbicularis (thallus).

S Sm Gtl Ög Upl
N Te MR
F A-EH EP PK

Diederich 1996, Westberg et al. 2008a, Pippola & Kotiranta 2008

***Tremella protoparmeliae Diederich & Coppins**

On Protoparmelia badia (apothecia).

S Upl TL
N -
F -

Diederich 1996, Millanes et al. 2014

***Tremella ramalinae Diederich**

On Ramalina fraxinea (thallus).

S Öl Ög

N -

F A

Diederich 1996, Pippola & Kotiranta 2008

***Tremella rhizocarpicola Diederich et al.**

On Rhizocarpon lavatum (apothecia).

S Sm Hl Bh UpI Hrtj

N Ak Ro

F -

Millanes et al. 2014

***Tremella rinodinae Diederich & M.S.Christ.**

On Rinodina gennarii (apothecia).

S Sk Bh

N -

F -

Diederich 1996, Millanes et al. 2014

***Tremella tuckerae Diederich**

On Ramalina spp.

S Vrm Gst

N -

F -

Ekman et al. 2019a

***Tremella wirthii Diederich**

On Protoparmelia oleagina.

S Dlr

N NT

F -

Westberg et al. 2015a, Holien et al. 2016a

Tremolecia atrata (Ach.) Hertel

Lecidea atrata (Ach.) Wahlenb.

Lecidea atrocuprea Vain.

Lecidea atroferrata Branth & Grønlund

Lecidea circumcisa H.Magn.

Lecidea dicksonii auct., non (J.F.Gmel.) Ach.

Lecidea melanophaea Fr.

On acidic rocks.

S Sm-TL

N Ak-Bu Ro-Fi

F A-U St EH KP OP PeP SoL-InL

Magnusson 1948a, Hertel 1971b, Hertel 1973, Hertel 1977a, Hertel 1981a, Schwab 1986, Rambold 1989

***Trichonectria anisospora (Lowen) van den Boom & Diederich**

Nectriella anisospora Lowen

Pronectria anisospora (Lowen) Lowen

On Hypogymnia physodes (thallus).

S Jmt

N Tr

F -

Lowen 1989, Sérusiaux et al. 2003, Alstrup et al. 2008

***Trichonectria rubefaciens (Ellis & Everh.) Diederich & Schroers**

Nectria rubefaciens Ellis & Everh.

Nectriopsis rubefaciens (Ellis & Everh.) Cole & D.Hawksw.

On Pleurosticta acetabulum (thallus).

S Ög Nrk

N -

F -

Anamorph: Acremonium rhabdosporum.

Lowen 1995, Sérusiaux et al. 1999, Cole & Hawksworth 2001

***Trichosphaeria lichenum P.Karst. & Har.**

On Peltigera polydactylon (thallus).

S -

N MR

F -

Karsten & Hariot 1890, Hawksworth 1980b, Hafellner 1993b

***Trimmatostroma varicellariae Heuchert & U.Braun**

On Varicellaria rhodocarpa.

S Htj

N -

F -

Heuchert & Braun 2017

Trimmatothele perquisita (Norman) Norman ex Zahlbr.

Cryptothele perquisita Norman

Verrucaria perquisita (Norman) Ertz & Diederich

On calcareous rocks, calcareous schist, etc.

S Htj TL

N Ho No

F -

Norman 1869, Magnusson 1952a, Poelt 1969, Ertz & Diederich 2004, Gueidan et al. 2009

Tuckermannopsis chlorophylla (Willd.) Hale

Cetraria chlorophylla (Willd.) Vain.

Nephromopsis chlorophylla (Willd.) Divakar et al.

Tuckermannopsis chlorophylla (Willd.) Hale

Cetraria scutata auct., non (Wulfen) Poetsch

Cetraria ulophylla (Ach.) Rebert

On tree trunks, branches and twigs, sometimes on lignum, rarely on rock.

S Sk-TL

N Øf-Fi

F A-InL

Thell 1996, Ahti & Thell 2011b

Tuckermannopsis ciliaris (Ach.) Gyeln.

Tuckermannopsis americana (Spreng.) Hale

Cetraria ciliaris Ach.

Nephromopsis ciliaris (Ach.) Hue

Cetraria halei W.L.Culb. & C.F.Culb.

Tuckermannopsis halei (W.L.Culb. & C.F.Culb.) M.J.Lai

On trunks and branches of *Betula*.

S -

N -

F St EH PS PK

Ahlner 1948, Hakulinen 1962c, Ahti & Thell 2011b

Tylothallia biformigera (Leight.) P.James & H.Kilias

Catillaria bahusiensis (Blomb.) Th.Fr.

Catillaria biformigera (Leight.) H.Magn.

On shaded or semi-shaded, vertical rock surfaces near the sea.

S Sk Hl Bh Vg

N VA Ro Ho SF

F -

Fries 1874, Magnusson 1949a, Brodo 1976, Kilias 1981

Umbilicaria aprina Nyl.

Gyrophora aprina (Nyl.) Nyl.

On rock walls, boulders, etc.

S Dlr Hrj(?) Jmt

N Op AA Ho No

F -

Hasselrot 1943, Degelius 1948a, Llano 1950, Ryvarden 1968, Poelt 1977b, Crespo & Sancho 1982

Umbilicaria arctica (Ach.) Nyl.

Gyrophora arctica Ach.

On siliceous rock, often on the top of big boulders; somewhat ornithocoprophilous.

S Vrm(?) Gst-Ång Dlr-TL

N Ak-Bu Te-Fi

F EP KP PeP-InL

Frey 1933, Hakulinen 1962a, Nordin 1992

Umbilicaria cinereorufescens (Schaer.) Frey

Gyrophora cinereorufescens (Schaer.) Schol.

On rocks, boulders, etc.

S Dlr Hls-TL

N AA-Fi

F -

Frey 1933, Hasselrot 1942b

Umbilicaria crustulosa (Ach.) Frey

Gyrophoropsis crustulosa (Ach.) Räsänen

Omphalodiscus crustulosus (Ach.) Schol.

Gyrophora depressa (Ach.) Schaer.

On rocks and boulders, on dry exposed rocks as well as on seepages.

S Bh Nrk (1 loc.) Dlr Hls-TL

N Øf-Bu Te-No Fi

F EnL

Frey 1933, Hakulinen 1962a

Umbilicaria cylindrica (L.) Delise ex Duby

Gyrophora cylindrica (L.) Ach.

Frey 1933, Hasselrot 1953a, Hakulinen 1962a

Umbilicaria cylindrica (L.) Delise ex Duby var. cylindrica

On rocks and boulders, especially in mountain regions.

S (Sk) Bl-TL

N Øf-Fi

F A V EK ES EP-PS KP-InL

Frey 1933, Hasselrot 1953a, Hakulinen 1962a

Umbilicaria cylindrica (L.) Delise ex Duby var. delisei Nyl

Umbilicaria canescens (Dombr.) Dombr.

On rocks in alpine regions.

S Dlr-TL

N ? (included in v. *cylindrica*)

F EP KP EnL

Frey 1933, Hasselrot 1953a

Umbilicaria decussata (Vill.) Zahlbr.

Omphalodiscus decussatus (Vill.) Schol.

Gyrophora discolor Th.Fr.

Gyrophora reticulata (Schaer.) Th.Fr.

Umbilicaria reticulata (Schaer.) Carestia

On rocks, especially on wind-exposed, vertical rocks in mountain regions.

S Vg Vrm Dlr Hrj-TL

N He-Bu Te Ro-ST No-Fi

F EP EnL

Frey 1933, Hasselrot 1941, Hakulinen 1962a, Feige et al. 1987, Løfall & Timdal 2005

Umbilicaria dendrophora (Poelt) Hestmark

Umbilicaria propagulifera auct., p.p., non (Vain.) Llano

Umbilicaria vellea var. *dendrophora* Poelt

On metal-rich rock.

S TL

N He Op Ho Tr

F EnL

Hasenhül & Poelt 1978, Hestmark 1990, Hestmark 1993

Umbilicaria deusta (L.) Baumg.

Umbilicaria flocculosa (Wulfen) Hoffm.

On rocks and boulders.

S Sk-TL

N Øf-Fi

F A-InL

Frey 1933, Hakulinen 1962a

Umbilicaria grisea Hoffm.

Umbilicaria murina (Ach.) DC.

On rock walls.

S Bl-Upl

N -

F U

Hakulinen 1962a, Degelius 1968, Codogno et al. 1989, Arup et al. 1997, Thor & Arvidsson 1999

Umbilicaria havaasii Llano

Gyrophora fuliginosa Hav., nom. nud.

Umbilicaria fuliginosa (Hav. ex Lynge) Frey

On rocks.

S Sm-Jmt ÅsL LyL

N Op Bu Te AA Ho-No

F EnL

Hasselrot 1935, Hasselrot 1941, Ahlner 1944, Llano 1950, Hakulinen 1962a, Sancho 1982, Feige et al. 1987, Jørgensen 2004a

Umbilicaria hirsuta (Sw. ex Westr.) Hoffm.

Gyrophora hirsuta (Sw. ex Westr.) Ach.

On siliceous rock, often in slightly dust-enriched sites.

S Sk-TL

N Øf-Fi

F A-Ks SoL InL

Hakulinen 1962a, Codogno et al. 1989

Umbilicaria hyperborea (Ach.) Hoffm.

Gyrophora hyperborea (Ach.) Ach.

Hasselrot 1953a, Hakulinen 1962a

Umbilicaria hyperborea (Ach.) Hoffm. var. hyperborea

On rocks and boulders.

S Sk-TL
N Øf-Fi
F A-InL

Hasselrot 1953a, Hakulinen 1962a

Umbilicaria hyperborea (Ach.) Hoffm. var. radicularia (J.E.Zetterst.) Hasselrot

Gyrophora herrei auct.

Umbilicaria herrei auct.

On rocks and boulders.

S Sk-TL
N Te-NT
F V EH PK-Kn

Hasselrot 1941

Umbilicaria leiocarpa DC.

Agyrophora leiocarpa (DC.) Gyeln.

Gyrophora leiocarpa (DC.) Th.Fr.

On rocks, especially wind-exposed, vertical rocks in alpine regions.

S Dlr-Jmt LyL
N He-Bu Te AA Ro-SF ST Tr
F EnL

Hasselrot 1941, Hakulinen 1962a, Hestmark 2017

Umbilicaria lyngei Schol.

Agyrophora lyngei (Schol.) Llano

On rocks and boulders, especially on vertical rocks in alpine regions.

S Hrj-TL
N Op Bu Ho ST No Fi
F EnL

Scholander 1934, Degelius 1948a, Feige et al. 1987, Løfall & Timdal 2005

Umbilicaria nylanderiana (Zahlbr.) H.Magn.

Gyrophora corrugata (DC.) Nyl.

Umbilicaria corrugata DC.

On boulders and rocks.

S Sk-TL
N Øf-Bu AA SF-ST Tr
F V U EP KP PeP EnL InL

Hasselrot 1941, Hakulinen 1962a, Timdal 1987a

Umbilicaria polyphylla (L.) Baumg.

Gyrophora anthracina (Wulfen) Körb.

Gyrophora polyphylla (L.) Funck

On boulders and rocks.

S Sk-TL

N Øf-Fi

F A-InL

Frey 1933, Hakulinen 1962a

Umbilicaria polyrrhiza (L.) Fr.

Actinogyra polyrrhiza (L.) Schol.

Gyrophora polyrrhiza (L.) Körb.

On boulders and rocks.

S Sk-Hrj Ång Nb

N Øf-He Bu-No

F A-KP

Frey 1933, Hakulinen 1962a

Umbilicaria proboscidea (L.) Schrad.

Gyrophora proboscidea (L.) Ach.

On boulders and rocks.

S (Sk) Bl-TL

N Øf-Bu Te-Fi

F A-U St-PH PK-InL

Lynge 1921a, Frey 1933, Hasselrot 1953a, Hakulinen 1962a

Umbilicaria rigida (Du Rietz) Frey

Gyrophora anthracina sensu Th.Fr.

Umbilicaria coriacea Imshaug

Umbilicaria leiocarpa sensu Lynge

Agyrophora rigida (Du Rietz) Llano

Gyrophora rigida Du Rietz

On rocks, especially wind-exposed, vertical rocks in alpine regions.

S Vg(2 loc.) Vrm Upl-TL

N He-Bu Te AA Ro-Fi

F EP KP Kn PeP Ks EnL InL

Lynge 1921b, Frey 1933, Hasselrot 1941, Hakulinen 1962a, Feige et al. 1987

Umbilicaria spodochoa (Hoffm.) DC.

Umbilicaria cirrhosa auct.

Gyrophora spodochoa Ach.

Gyrophoropsis spodochoa (Ach.) Räsänen

Omphalodiscus spodochrous (Hoffm.) Schol.

Mostly on siliceous rock near seashores or, rarely, by large inland lakes.

S Bh-Sk-Ång

N Øf Ak Op-No

F A V

Frey 1933, Hasselrot 1945a, Hakulinen 1962a

Umbilicaria subglabra (Nyl.) Harm.

Agyrophora subglabra (Nyl.) M.Choisy

On a diabase rock.

S (Dlr) (Lybergsgnupen 1936 Hasselrot)

N -

F -

Extinct.

Hasselrot 1941, Feige et al. 1987, Thor & Arvidsson 1999, Fredriksson & Thor 2007

Umbilicaria torrefacta (Lightf.) Schrad.

Gyrophora erosa (Weber) Ach.

Umbilicaria erosa (Weber) Hoffm.

Gyrophora torrefacta (Lightf.) Cromb

On boulders and rocks.

S Sk-TL

N Øf-Fi

F A-InL

Frey 1933, Hakulinen 1962a

Umbilicaria umbilicarioides (Stein) Krog & Swinscow

Umbilicaria propagulifera (Vain.) Llano

Not in F, N or S.

Umbilicaria vellea (L.) Hoffm.

Gyrophora vellea (L.) Ach.

On rocks and boulders, especially vertical rocks in alpine regions.

S Ög Nrk-TL

N Øf-Bu Te-Fi

F A-InL

Frey 1933, Hasselrot 1941, Hakulinen 1962a

Umbilicaria virginis Schaer.

Umbilicaria rugifera Nyl.

Umbilicaria stipitata Nyl.

Gyrophora virginis (Schaer.) Frey

Omphalodiscus virginis (Schaer.) Schol.

On strongly wind-exposed cliffs in high alpine mountains.

S Hrj-TL

N He-Bu Te VA Ho-ST No-Fi

F EnL InL

Frey 1933, Hakulinen 1962a, Poelt 1977b

* **Unguiculariopsis cribriformis (Norman) Alstrup & D.Hawksw.**

Lecanora cribriformis Norman

Pertusaria paradoxa Linds.

On *Pertusaria dactylina* (thallus).

S Jmt ÅsL LuL

N ST Fi

F -

Norman 1869, Alstrup & Hawksworth 1990

* **Unguiculariopsis groenlandiae (Alstrup & D.Hawksw.) Etayo & Diederich**

Geltingia groenlandiae Alstrup & D.Hawksw.

Limoniella groenlandiae (Alstrup & D.Hawksw.) Triebel & Hafellner

On *Fulgensia fulgens* (thallus).

S Gtl (Lummelunda 1999 Kummer)

N -

F -

The report from S (Sm TL) in Alstrup (1991, p. 66), refers to *Phaeopyxis punctum*.

Alstrup & Hawksworth 1990, Diederich & Etayo 2000

* **Unguiculariopsis lesdainii (Vouaux) Etayo & Diederich**

Nesolechia lesdainii Vouaux

Skyttea lesdainii (Vouaux) W.Y. Zhuang & Korf

On *Lecanora saligna* (thallus).

S Sk (E. Fries)

N -

F -

Zhuang & Korf 1989, Diederich & Etayo 2000

* **Unguiculariopsis lettaui (Grumann) Coppins**

Pyrenopeziza lettaui Grumann

Skyttea lettaui (Grumann) D.Hawksw.

On *Evernia prunastri* (thallus).

S Ög Upl

N -

F -

Grumann 1960, Hawksworth 1982a, Santesson 1984b, Rambold & Triebel 1990, Diederich & Etayo 2000

* **Unguiculariopsis manriquei Etayo**

On the lower surface of *Lobaria scrobiculata*.

S -

N NT

F -

Holien et al. 2016a

***Unguiculariopsis thallophila (P.Karst.) W. Y. Zhuang**

Pyrenopeziza thallophila (P.Karst.) Sacc.

Skyttea thallophila (P.Karst.) Sherwood et al.

Trochila thallophila P.Karst.

On *Lecanora carpineae*, *L. septentrionalis*, *Lecanora* spp. (thallus, rarely apothecia).

S Sk ÖI Vg Ög Nrk Srm Vsm Upl

N Ak MR

F EH InL

Santesson 1949, Santesson 1960, Hawksworth 1980a, Sherwood et al. 1980, Zhuang 1988, Santesson 1994b, Diederich & Etayo 2000

Usnea barbata (L.) Weber ex F.H.Wigg.

Usnea caucasica Vain.

Usnea diplotypus var. *leucostictoides* Räsänen

Usnea esthonica Räsänen

Usnea foveata Vain.

Usnea foveolata Vain.

Usnea graciosa Motyka

Usnea leucosticta Vain.

Usnea leucostictoides Räsänen

Usnea monstrosa Vain., uncertain synonym

Usnea pendulina Motyka

Usnea prostrata Vain. ex Räsänen

Usnea rugulosa Vain.

Usnea scabrata Nyl.

Usnea scrobiculata Motyka

Usnea silvatica Motyka, uncertain synonym

On deciduous trees and conifers, usually on the branches.

S BI Gtl-ÅsL LuL TL

N Øf-Op Te AA Ro-SF ST-No

F V U EH PK PeP Ks

Arup et al. 1997, Thor & Arvidsson 1999, Articus 2000, Clerc 2011

Usnea ceratina Ach.

On *Fagus*.

S (BI Eringsboda 1873 H. G. Falk)

N -

F -

Extinct.

Almborn 1948, Carlin & Swahn 1977, Arup et al. 1997, Thor & Arvidsson 1999, Articus 2000, Clerc 2011

Usnea cornuta Körb.

Usnea intexta Stirt.

On shaded tree bark or on rock.

S -

N VA-Ho

F -

Clerc 1987, Tønsgaard et al. 1996, Jørgensen 1996, Clerc 2011

Usnea cylindrica P.Clerc

On trees, mainly *Picea abies*.

S Sm Dls Vrm-Upl Mpd Jmt Nb ÅsL

N Ak-Op Te Ro NT

F PH KP

Clerc 2011

Usnea dasopoga (Ach.) Nyl.

Usnea capillaris Motyka

Usnea chaetophora Stirt.

Usnea dasypoga (Ach.) Nyl., orth. var.

Usnea diplotypus Vain.

Usnea fibrillosa Motyka

Usnea filipendula Stirt.

Usnea leiopoga Motyka

Usnea major Motyka ex Räsänen

Usnea subluxa Vain. ex Motyka

Usnea subscabrata (Vain.) Motyka

Usnea wasmuthii var. *sphaeroides* Räsänen

On deciduous trees and conifers, usually on branches, rarely on siliceous rock in coastal areas.

S Sk-LyL LuL

N Øf-Tr

F A-U EH-EP PS PK Kn-Ks

Carlin & Swahn 1977, Thor & Arvidsson 1999, Articus 2000, Hermansson 2008a, Clerc 2011

Usnea flammea Stirt.

On shaded tree bark, often *Pinus*, or on rock, either mossy cliffs or exposed, coastal rocks.

S -

N VA-Ho

F -

Tønsberg et al. 1996, Jørgensen 1996, Clerc 2011

Usnea florida (L.) Weber ex F.H.Wigg.

On branches of deciduous trees, often *Quercus*.

S Sk Sm-Bh Vg Ög Srm Upl

N Ak Vf-VA Ho No

F -

Almborn 1948, Carlin & Swahn 1977, Skarpe & Bergström 1981, Clerc 1984, Tønsberg et al. 1996, Arup et al. 1997, Thor & Arvidsson 1999, Articus et al. 2002, Clerc 2011

Usnea fragilesceus Hav.

Usnea fragilesceus Hav. var. *fragilesceus*

Usnea fragilesceus var. *mollis* (Vain.) P.Clerc

On shaded tree bark or on rock.

S -

N VA Ro Ho

F -

Clerc 2011

Usnea glabrata (Ach.) Vain.

Usnea soreðiifera (Arnold) Lyngø

On deciduous trees and conifers, often *Alnus* or *Picea*.

S Upl Lyl

N Op Ho

F St EH ES PS PK OP-Ks SoL

Carlin & Swahn 1977, Mylly 1994, Thor & Arvidsson 1999, Halonen et al. 1999, Clerc 2011, Hagström & Henriksson 2011

Usnea glabrescens (Nyl. ex Vain.) Vain. ex Räsänen

Usnea compacta Motyka

Usnea extensa Vain.

Usnea fulvøreagens (Räsänen) Räsänen

Usnea glabrella (Motyka ex Räsänen) Räsänen

Usnea glabrescens var. *fulvøreagens* Räsänen

Usnea laricina Vain. ex Räsänen, uncertain synonym

Usnea similis var. *globigera* Räsänen

On deciduous trees and conifers.

S Sk Gtl-Jmt-Nb

N Ak-AA Ro Ho MR St Tr

F A-Ks SoL

Räsänen 1931, Halonen et al. 1999, Clerc 2011

Usnea hirta (L.) Weber ex F.H.Wigg.

Usnea foveata Vain.

Usnea glaucescens Vain.

Usnea hirta var. *comiformis* Motyka ex Räsänen

Usnea hirta var. *pallescens* Motyka

Usnea variolosa Motyka

On bark and lignum of deciduous trees and conifers, often *Pinus*.

S Sk-ÅsL PL LuL

N Øf Op-Vf AA Ho-ST No-Fi

F A-InL

Carlin & Swahn 1977, Halonen & Puolasmaa 1995, Halonen & Puolasmaa 1995, Halonen et al. 1999, Elvebakk & Bjerke 2006, Clerc 2011

Usnea lapponica Vain.

Usnea arnoldii Motyka

Usnea betulina Motyka

Usnea hirta var. *dentata* Räsänen

Usnea perplexans auct. non Stirton, non Stirton

Usnea soreðiifera, sensu Motyka, non (Arnold) Lyngø

On deciduous trees and conifers.

S Sk-TL

N He-Bu Te SF-Fi

F A-St EH-SoL InL

Carlin & Swahn 1977, Halonen et al. 1999, Clerc 2011

Usnea longissima Ach.

On branches of Picea in old, humid Picea forests.

S (Sm Dls Srm) Vrm Dlr-Hrj Vb ÅsL

N Ak-Vf SF ST NT

F (EK PK Ks)

Extinct in many former localities.

Ahlner 1948, Jørgensen & Øvstedal 1975, Carlin & Swahn 1977, Esseen & Ericson 1982, Olsen & Gauslaa 1991, Tønsberg et al. 1996, Arup et al. 1997, Gauslaa 1997, Halonen 1997, Thor & Arvidsson 1999, Oldhammer & Turander 2004, Hermansson 2008a, Clerc 2011

Usnea perplexans Stirton

Not in F, N or S.

Usnea rubicunda Stirt.

On Populus tremula.

S -

N VA

F -

Gauslaa & Tindal 2020

Usnea silesiaca Motyka

Usnea madeirensis Motyka

On deciduous trees and conifers.

S Sm Bh Vg Hls

N Ak Op-Vf Va-SF

F -

Clerc 1997, Clerc 2011

Usnea subfloridana Stirt.

Usnea albida (Räsänen) Räsänen

Usnea comosa (L.) Vain, non Pers.

Usnea similis (Motyka) Räsänen

On bark of deciduous trees or conifers, sometimes on lignum or on rock.

S Sk-ÅsL

N Øf-Fi

F A-InL

This species and *U. florida* belong to one polymorphic species according to Articus et al. (2002).

Laundon 1965, Carlin & Swahn 1977, Halonen et al. 1999, Articus et al. 2002, Clerc 2011

Usnea substerilis Motyka

On calcareous rocks and deciduous trees.

S Bl Gtl Vg-Nrk Upl-ÅsL PL-TL

N He-Bu Te Ro SF-Tr

F V St EH EP-Ks SoL

Halonen et al. 1999, Hermansson & Thor 2004b, Clerc 2011, Hemberg 2014

Usnea wasmuthii Räsänen

On deciduous trees and conifers.

S Srm Upl

N Vf AA Ro Ho (mainly along the coast)

F A-U EH EP-PS Kn-Ks SoL

Räsänen 1931, Halonen et al. 1999, Clerc 2011

Usnocetraria oakesiana (Tuck.) M.J.Lai & J.C.Wei

Cetraria oakesiana Tuck.

On Picea and Betula in humid situations.

S -

N Bu

F -

Klepsland & Tindal 2010, Thell 2011d

Wadeana minuta Coppins & P.James

On bark of old Fraxinus, Ulmus and Quercus.

S -

N AA Ro Ho ST

F -

Coppins & James 1978, Coppins 1992, Jørgensen 1996, Nordén & Jordal 2016, Frisch et al. 2020a

Wahlenbergiella mucosa (Wahlenb.) Gueidan & Thüs

Verrucaria mucosa Wahlenb.

On seashore rocks in the upper hydrolitoral.

S Sk-Bh

N Vf AA-MR NT-Fi

F -

Vainio 1921, Zschacke 1933b, Santesson 1939c

Wahlenbergiella striatula (Wahlenb.) Gueidan & Thüs

Verrucaria harmandiana Grummann

Verrucaria laetevirens (Wedd.) Zschacke

Verrucaria microspora Nyl.

Verrucaria striatula Wahlenb.

On seashore rocks in the upper hydrolitoral zone.

S Sk-Bh

N Øf VA Ho NT-Fi

F -

Zschacke 1933b, Santesson 1939c, Christiansen 1947

Vahliella atlantica (P.M.Jørg. & P.W.James) P.M.Jørg.

Fuscopannaria atlantica P.M.Jørg. & P.W.James

On undisturbed soil near the sea.

S -

N Ro

F -

Report from Sweden refers to *Moelleropsis nebulosa*.

Jørgensen 2005, Jørgensen & Johnsen 2006, Jørgensen 2007g, Jørgensen 2008, Ahti et al. 2012

Vahliella hookerioides (P.M.Jørg.) P.M.Jørg.

Fuscopannaria hookerioides P.M.Jørg.

Saxicolous in alpine habitat.

S Hrj Jmt LyL LuL TL

N Op Fi

F -

Jørgensen 2000a, Jørgensen 2007g, Jørgensen 2008, Ahti et al. 2012

Vahliella leucophaea (Vahl) P.M.Jørg.

Fuscopannaria leucophaea (Vahl) P.M.Jørg.

Pannaria leucophaea (Vahl) P.M.Jørg.

Pannaria microphylla (Sw.) Delise in Bory

Parmeliella microphylla (Sw.) Müll.Arg.

On humid rocks (preferably basic), rarely on bark.

S Sk-TL

N Øf-Fi

F A-InL

Jørgensen 1978, Jørgensen 2007g, Jørgensen 2008, Ahti et al. 2012

Varicellaria hemisphaerica (Flörke) I.Schmitt & Lumbsch

Pertusaria hemisphaerica (Flörke) Erichsen

Pertusaria speciosa Høeg

On bark of deciduous trees, rarely on conifers or on rock.

S Sk-Hls Jmt

N Øf Ak Op Vf-No

F V EK EH PH

Høeg 1923, Almborn 1948, Hanko 1983, Tønsberg 1992b

Varicellaria lactea (L.) I.Schmitt & Lumbsch

Variolaria actinota Wahlenb. in Ach., nom. inval.

Ochrolechia lactea (L.) Hafellner & Matzer

Pertusaria lactea (L.) Arnold

On siliceous rock.

S Sk-TL

N AA-Fi

F Ks EnL

Malme 1923b, Hanko 1983, Matzer & Hafellner 1990, Schmitz et al. 1994, Schmitt et al. 2012

Varicellaria rhodocarpa (Körb.) Th.Fr.

Varicellaria kemensis Räsänen

Varicellaria microsticta Nyl.

On acidic bark, sometimes on bryophytes or lignum.

S Vrm Dlr Hls Hrj-TL

N He-Bu Te Ho MR-Fi

F A EH PH-PK Kn-InL

Fries 1871, Erichsen 1940, Tønsberg 1992b

Varicellaria velata (Turner) I.Schmitt & Lumbsch

Pertusaria velata (Turner) Nyl.

On bark of *Fagus sylvatica*.

S Sk Hl Bh

N -

F -

Almborn 1948, Almborn 1955b, Hanko 1983, Arup et al. 1997, Thor & Arvidsson 1999, Fritz & Malmqvist 2010, Schmitt et al. 2012

Variospora aurantia (Pers.) Arup et al.

Caloplaca aurantia (Pers.) Hellb.

Not in F, N or S.

Arup et al. 2013

Variospora dolomiticola (Hue) Arup et al.

Caloplaca dolomiticola (Hue) Zahlbr.

On calcareous rocks.

S Öl Gtl

N Ak Op

F -

See also *Caloplaca velana*.

Poelt & Buschardt 1978, Nimis & Poelt 1987, Arup 1990, Arup et al. 2013

Variospora flavescens (Huds.) Arup et al.

Caloplaca aurantia auct., p.p., non (Pers.) Hellb.

Caloplaca flavescens (Huds.) J.R.Laundon

Caloplaca heppiana (Müll.Arg.) Zahlbr.

On calcareous rocks.

S Sk Öl Gtl Sm Ög Dlr

N Te Ro Ho

F -

Nordin 1972, Laundon 1984b, Arup et al. 2013

Variospora glomerata (Arup) Arup et al.

Caloplaca glomerata Arup

On calcareous rocks.

S Öl Gtl

N -

F -

Fröberg 1989, Arup 1990, Arup et al. 2013

Variospora paulii (Poelt) Arup et al.

Caloplaca paulii Poelt

On black schist.

S TL (Kieron 1982 Alstrup)

N -

F -

Poelt 1954, Hansen et al. 1987, Alstrup 1991, Arup et al. 2013

Variospora thallincola (Wedd.) Arup et al.

Caloplaca thallincola (Wedd.) Du Rietz

On seashore rocks, in the geolitoral zone.

S Bh-Sk-Srm

N Øf AA Ro-SF ST No

F A V

Nordin 1972, Arup et al. 2013

Variospora velana (A.Massal.) Arup et al.

Caloplaca velana (A.Massal.) Du Rietz

Lecidea velana (A.Massal.) Hue

On calcareous rocks.

S Öl Gtl

N -

F -

See also *Caloplaca dolomiticola*.

Du Rietz 1925b, Fröberg 1989, Arup et al. 2013

***Weddellomyces tartaricola (Linds.) Alstrup & D.Hawksw.**

Leptosphaeria crozalsii, sensu von Keissler (1923)

On *Ochrolechia androgyna*, *O. frigida*, *O. tartarea* (thallus).

S Nb LuL

N Tr Fi

F -

Lindsay 1869a, Lindsay 1871, Alstrup & Hawksworth 1990, Alstrup et al. 2008

Verrucaria acrotella Ach.

On siliceous rocks in forests or in open localities.

S Sk-Upl Hls Jmt (LyL?)

N Ho ST No Fi

F A-U St-PH

Zschacke 1933b, Magnusson 1946, Swinscow 1968

Verrucaria acrotelloides A.Massal.

On calcareous rocks.

S Vg

N ST(?)

F -

Zschacke 1933b

Verrucaria adelminienii Zschacke

On NE-facing wall in limestone quarry.

S -

N -

F ES (Kerimäki 2011, Pykälä)

Pykälä 2013

Verrucaria aethiobola Wahlenb.

Verrucaria aethiobola var. *cataleptoides* (Nyl.) Vain.

Verrucaria aquinella Nyl., uncertain synonym

Verrucaria cataleptoides (Nyl.) Nyl.

Verrucaria laevata Ach.

On siliceous rocks in streams, by the shores of lakes, etc.

S Sk-TL

N Ak Ro-SF ST No-Fi

F A-U St-ES EP PS PK Kn PeP Ks EnL InL

Magnusson 1952a, Swinscow 1968, Thüs 2002

Verrucaria ahtii Pykälä et al.

On calcareous pebbles or siliceous pebbles enriched by calcareous dust. Also on south-facing walls in limestone quarries.

S -

N -

F V U

Pykälä et al. 2017b

Verrucaria alpicola Zschacke

On calcareous and siliceous rock by streams.

S -

N Tr

F -

Thüs et al. 2015

Verrucaria alpigena Breuss

Not in F, N or S. The specimen reported from F belongs to *V. subjunctiva* (Pykälä et al. 2020).

Pykälä 2011

Verrucaria alutacea Wallr.

On calcareous rock.

S -

N -

F V (Kemiönsaari 2009, Pykälä)

Pykälä 2011

Verrucaria amylacea Hepp

Not in F, N or S. The reported specimen from Finland belongs to *V. tallbackaensis* (Pykälä et al. 2019).

Pykälä & Breuss 2008

Verrucaria anceps Kremp.

Not in F, N or S. The reported specimen from Finland belongs to *V. raesaenii* (Pykälä et al. 2019).

Pykälä 2013

Verrucaria andesiatica Servít

On calcareous, schistose rock by stream.

S -

N Locality not specified

F Ks

Orange 2008, Pykälä 2010b

Verrucaria anziana Garov.

On siliceous rocks by streams and lakes.

S Localities not specified

N Localities not specified

F Ks

Orange 2008, Pykälä 2010b

Verrucaria apatela (A.Massal.) Trevis.

On concrete.

S -

N -

F U (Helsinki 2007, Pykälä)

Pykälä 2010a

Verrucaria apomelaena (A.Massal.) Hepp

On calcareous rock, mortar and concrete.

S -

N -

F V

Pykälä 2008

Verrucaria aquatilis Mudd

Verrucaria retecta Zschacke

On rocks in streams, etc., often submerged.

S Sk-Vg

N No

F V

Malme 1932b, Zschacke 1933b, Swinscow 1968, Degelius 1982, Jacobsen & Coppins 1989, Thüs 2002

Verrucaria arctica Lyngø

Verrucaria anzianooides H.Magn.

Verrucaria longiconida H.Magn., nom. nud.

On dolomite.

S TL

N -

F -

Uncertain status.

Magnusson 1952a, McCarthy 1988, Jørgensen & Nordin 2009

Verrucaria asperula Servit

On gneiss.

S -
N -
F V

Pykälä 2017

Verrucaria aspicilioides Vain.

Verrucaria integra sensu Malme

On sandstone rocks.

S Gtl (Burgsvik 1918 Malme)

N -
F -

Vainio 1921

Verrucaria banatica Servit

On calcareous rocks, brick and concrete.

S -
N -
F V EnL

Pykälä & Breuss 2009

Verrucaria bifurcata Pykälä et al.

On calcareous rocks.

S -
N -
F V ES

Pykälä et al. 2020

Verrucaria boblensis Servit

On calcareous rock.

S -
N -
F V St PS KP

Pykälä 2011

Verrucaria breussii Diederich & van den Boom

Verrucaria sorbinea Breuss

On bases and roots of trees mainly on lakeshores.

S Sm
N AA
F V

Breuss 1998, Pykälä 2008, Nordén 2016

Verrucaria bryoctona (Th.Fr.) Orange

Thelidium bryoctonum Th.Fr.

Verrucaria psammophila Erichsen

Terricolous, on basic soil or on dead bryophytes.

S Sk? Nrk Srm Dlr Nb

N -

F V U EH-EP

Fries 1863, Orange 1991a

Verrucaria caerulea DC.

Verrucaria glaucina Ach.

Verrucaria plumbea Ach.

On calcareous rocks.

S Öl Gtl Ög-Srm Vrm

N Ak Ho No Tr

F V

Zschacke 1933a, Degelius 1955b, Fröberg 1989

Verrucaria caesiopsila Anzi

Verrucaria integrella (Nyl.) Nyl.

On calcareous rocks.

S TL

N Ho

F U EnL

Vainio 1921, Zschacke 1933a, Magnusson 1952a

Verrucaria caliacrensis Servit

On calcareous rock.

S -

N -

F V (Lohja 2004, Pykälä)

Pykälä & Breuss 2008

Verrucaria cambrini Servit

On pebbles in limestone quarries.

S -

N -

F V U St EP KP ES PS

Pykälä 2013

Verrucaria carbonella Nyl. ex Hulting

On burnt wood.

S Dls

N -

F V

A doubtful species.

Hulting 1900, Pykälä & Breuss 2009

Verrucaria cavernarum Pykälä & Myllys

On calcareous rocks and pebbles.

S -

N -

F V Ks

Pykälä et al. 2020

Verrucaria ceuthocarpa Wahlenb.

On (more or less sun-exposed) siliceous seashore rocks in the *Hydropunctaria maura* and *Caloplaca marina* zones.

S Bh-Sk-Mpd

N Øf? Bu VA? Ro No-Fi

F A-U

Vainio 1921, Degelius 1930, Zschacke 1933b, Santesson 1939c

Verrucaria cincta Hepp

Not in F, N or S. Erroneously reported from F according to Pykälä (2018)

Pykälä & Breuss 2011, Pykälä 2018

Verrucaria cinereolurida Vain.

On calcareous and siliceous rocks.

S -

N -

F V Kn

Vainio 1921

Verrucaria cinereorufa Schaer.

Not in F, N or S. Erroneously reported from F (see Pykälä et al. 2020).

Pykälä 2010c

Verrucaria commutata Zschacke

On hard mica schist.

S LyL (Rivovardo 1924 Magnusson)

N -

F -

A doubtful species.

Zschacke 1933b, Magnusson 1946

Verrucaria conchea Servít

Unknown application. From S Bh.

Servít 1952

Verrucaria confluens A.Massal.

On concrete and calcareous rocks and pebbles.

S -

N -

F V U

Pykälä 2010a

Verrucaria consociata Servit

On wet siliceous rocks.

S TL

N -

F -

Svensson & Palice 2009

***Verrucaria conturmatula Nyl.**

On Ionaspis lacustris (thallus).

S Vg (Halleberg 1936 R. Santesson)

N -

F -

Hawksworth 1989, Orange 2002b

Verrucaria corcontica Servit

On calcareous rock.

S -

N -

F V

Pykälä 2018

Verrucaria corticola (Arnold) Servit

On exposed roots of Alnus on shores.

S -

N -

F V

Pykälä 2010a

Verrucaria dalslandensis Servit

On siliceous rock.

S DIs

N -

F V

Pykälä & Breuss 2011

Verrucaria danica Servit & M.S.Christ.

On spoil heaps in limestone quarries.

S -

N NT

F St ES EP PS PK KP

Pykälä 2013, Pykälä et al. 2019

Verrucaria degelii R.Sant.

On seashore rocks, mainly in the lower part of the Hydropunctaria maura zone.

S -

N MR? Fi

F -

Santesson 1939c

Verrucaria devergens Nyl.

Verrucaria divergens Nyl., typographical error

On dolomite and calcareous rocks.

S TL

N No

F V EnL

Vainio 1921, Zschacke 1933a, Magnusson 1952a, Degelius 1955b, Pykälä 2007, Pykälä et al. 2020

Verrucaria deversa Vain.

On calcareous rocks.

S (Vg?) Dls LyL-TL

N Ho

F V U PS SoL

Vainio 1921, Zschacke 1933a, Magnusson 1946, Magnusson 1952a

Verrucaria difficilis Pykälä & Myllys

On calcareous rocks.

S -

N -

F V Ks

Pykälä et al. 2020

Verrucaria ditmarsica Erichsen

Verrucaria santessonii Erichsen

On seashore rocks and pebbles (not sun-exposed) in the upper hydrolitoral.

S Sk-Bh

N Øf? VA? Ho Fi?

F -

Erichsen 1937, Santesson 1939c

Verrucaria dolomitica (A.Massal.) Kremp.

On dolomite rock.

S ?

N ?

F Ks

Pykälä 2010b

Verrucaria dolosa Hepp

On calcareous rocks and bricks.

S Vg Ög Upl

N -

F V EK

Zschacke 1933b, Pykälä 2007

Verrucaria elaeina Borrer

On shaded stone below basic cliff.

S -
N Ho
F V U

Orange 2000, Pykälä & Breuss 2008

Verrucaria elaeomelaena (A.Massal.) Anzi

Not in F, N or S.

Verrucaria elevata (Nyl.) Zschacke

On concrete and calcareous rocks.

S -
N -
F V

Pykälä 2010a

Verrucaria endocarpoides Servít

On cement and calcareous rocks.

S -
N -
F V

Pykälä 2010a

Verrucaria epilitha Vain.

On calcareous rocks.

S LyL
N -
F V U EH EnL

A doubtful species.

Vainio 1921, Zschacke 1933a, Magnusson 1946

Verrucaria erichsenii Zschacke

Verrucaria ambigua Erichsen

On seashore rocks and pebbles (often on shallow shores), mainly in the upper part of the *Hydropunctaria maura* zone.

S Sk-Bh
N Øf VA Ro No Fi
F -

Magnusson 1930a, Zschacke 1933b, Santesson 1939c, Christiansen 1947

Verrucaria floerkeana Dalla Torre & Sarnth.

On siliceous rocks.

S Gtl Bh Dls Ög Upl Hls LyL TL
N Ak ST
F V?

Zschacke 1933a, Magnusson 1946, Magnusson 1948c, Magnusson 1952a, Arvidsson et al. 1988, Pykälä 2010a

Verrucaria foveolata (Flörke) A.Massal.

On calcareous rocks.

S ÖI Gtl Vg Nrk ÅsL LyL TL
N Ak Op Ho No-Fi?
F V Ks

Zschacke 1933a, Magnusson 1946, Degelius 1955b, Fröberg 1989, Pykälä 2010a, Pykälä et al. 2020

Verrucaria fraudulosa Nyl.

On siliceous and calcareous rocks.

S -
N -
F V

Pykälä & Breuss 2009

Verrucaria funckii (Spreng.) Zahlbr.

Verrucaria elaeomelaena auct., non (A.Massal.) Arnold

Verrucaria silicea Servít

Verrucaria silicicola (Zschacke) Servít, non Fink

On rocks in streams with clear water, also on seepages.

S Bh Dls Upl Dlr Hrj LyL
N SF No
F V

Zschacke 1933b, Magnusson 1946, Swinscow 1968

Verrucaria fusca Pers.

On calcareous rocks.

S LyL
N -
F V EnL

Zschacke 1933b, Magnusson 1946

Verrucaria fuscoatroides Servít

On calcareous and siliceous rocks.

S -
N -
F V U

Pykälä 2010a

Verrucaria fuscolurida Vain.

On schist.

S TL
N -
F A U

Vainio 1921, Zschacke 1933b, Magnusson 1952a

Verrucaria fusconigrescens Nyl.

On calcareous or calcareous rocks.

S Bh Vrm TL

N -

F V?

Zschacke 1933b, Magnusson 1952a, Pykälä 2010a

Verrucaria fuscovelutina Servit

On calcareous pebbles in limestone quarry.

S -

N -

F V (Länsi-Turunmaa 2010 J.Pykälä)

Pykälä 2013

Verrucaria fuscozonata Pykälä et al.

On dolomite rock.

S -

N -

F Ks

Pykälä et al. 2020

Verrucaria geophila Zahlbr.

On calcareous soil.

S -

N -

F V (Hemala 2003, Pykälä)

Pykälä 2007

Verrucaria glaucina auct.

On calcareous rocks.

S ÖI Gtl Vg Srm Vsm

N Ak Bu Ho ST

F V

Zschacke 1933b, Fröberg 1989, Berglund & Andersson 2008

Verrucaria glauconephela Nyl.

On calcareous slate.

S LyL

N -

F V

Zschacke 1933a, Magnusson 1946

Verrucaria glaucovirens Grumann

Verrucaria virens Nyl.

On calcareous rocks.

S Vsm Upl

N -

F U EH ES Kn PeP

Nylander 1853b, Vainio 1921, Zschacke 1933b

Verrucaria gotlandica Servit

On sandstone in a stone fence.

S Gtl (Burgsvik 1918 A.H. Magnusson)

N -

F -

Pykälä & Breuss 2011

Verrucaria griseocinerascens (Vain.) Zschacke

On crystalline schist.

S LyL TL

N Ho

F PK Kn EnL

To *Verrucaria aethiobola*?

Vainio 1921, Zschacke 1933b, Magnusson 1946, Magnusson 1952a

Verrucaria grossa Nyl.

On dolomite rock by river.

S -

N -

F Ks (Kuusamo 2009, Pykälä)

Pykälä 2010b

Verrucaria gudbrandsdalensis Zschacke ex H.Magn.

On crystalline schist.

S TL LuL

N Op

F V

Magnusson 1932a, Magnusson 1952a

Verrucaria halophila Branth & Rostr.

Verrucaria frisiaca Erichsen

Verrucaria halizoa Leight.

Verrucaria microspora auct., non Nyl.

On seashore rocks in the upper hydrolitoral.

S Bh-Sk-Upl

N Ho SF No Tr

F -

The correct name is *Verrucaria halophila* Branth. & Rostr. since *Verrucaria microspora* f. *halophila* Nyl. (1855) is an illegitimate name.

Degelius 1930, Zschacke 1933b, Santesson 1939c, Swinscow 1965a, Elvebakk & Bjerke 2006

Verrucaria halophiloides Vain.

On siliceous seashore rocks.

S -

N Tr Fi

F -

Vainio 1909, Santesson 1939c, Elvebakk & Bjerke 2006

Verrucaria hegetschweileri Körb.

On the base of *Alnus glutinosa* and *Betula pendula*.

S -
N -
F V

Pykälä 2008

Verrucaria helsingiensis Vain.

On mortar by a well.

S Bh
N -
F V U

Vainio 1921, Magnusson 1948b

Verrucaria hochstetteri Fr.

Verrucaria arnoldii J.Stein

Verrucaria hiascens auct., non Ach.

On calcareous rocks.

S ÖI Gtl Dls Vg Ög Vsm Upl Ång LyL
N Ak Ho No
F -

Erroneously reported from F (see Pykälä et al. 2020).

Zschacke 1933a, Degelius 1955b, Botnen 1984

Verrucaria humida Orange

On stones in seepages and small streams in woodland.

S -
N Tr
F -

Thüs et al. 2015

Verrucaria hydrela Ach.

Verrucaria denudata Zschacke

Verrucaria submersa Schaerer, non Borrer

Verrucaria submersella Servít

On siliceous rocks by streams and by the shores of lakes, etc.

S LuL
N Ak Ho ST No Tr
F V Ks

Zschacke 1933b, Swinscow 1968, Thüs 2002

Verrucaria hydrophila Orange

On metal waste.

S -
N Ak
F -

Klepsland 2020

Verrucaria illinoisensis Servit

Wall of lime quarry.

S -

N -

F V (Lohja 2005, Pykälä)

Pykälä & Breuss 2008

Verrucaria inaspecta Servit

Verrucaria olivacella Servit

On calcareous rocks.

S Vg Ög Nrk

N -

F V

A doubtful species.

Servit 1952, Pykälä & Breuss 2011

Verrucaria infumata Nyl.

On bricks.

S Hl Vg Ög Srm

N -

F V

Zschacke 1933b, Pykälä 2008

Verrucaria inornata Servit

On siliceous pebbles.

S -

N -

F V (Lohja 2008, Pykälä)

Pykälä 2010a

Verrucaria integra (Nyl.) Nyl.

On calcareous rocks.

S Gtl Ög Vsm

N Fi

F A ES

Uncertain status, but not conspecific with *Verrucaria pinguicula*.

Vainio 1921, Zschacke 1933a, Pykälä 2010c

Verrucaria internigrescens (Nyl.) Erichsen

Verrucaria aethiobola var. *internigrescens* (Nyl.) Vain.

On seashore rocks in the upper geolitoral.

S Bh-Sk-Mpd

N Ho No

F A-U

Vainio 1921, Zschacke 1933b, Magnusson 1951

Verrucaria invenusta H.Magn.

On mica schist.

S TL

N -

F V

Magnusson 1952a, Pykälä & Breuss 2009

Verrucaria inverecundula Pykälä & Myllys

On dolomite rocks.

S -

N -

F Ks

Pykälä et al. 2019

Verrucaria irmscheriana Erichsen

On crystalline schist (a seepage from melting snow).

S (LyL?) TL (Nuolja 1936 Santesson).

N -

F -

Magnusson 1952a

Verrucaria juankoskiensis Pykälä & Myllys

On dolomite rocks.

S -

N NT

F PK Ks

Pykälä et al. 2019

Verrucaria kalenskyi Servit

On calcareous rocks and concrete.

S -

N NT

F -

Pykälä et al. 2019

Verrucaria karelica Vain.

On dolomite.

S -

N -

F Ks

Pykälä 2011, Pykälä et al. 2020

Verrucaria kiskoensis Pykälä & Myllys

On limestone.

S -

N -

F V

Pykälä et al. 2019

Verrucaria kuusamoensis Pykälä et al.

On dolomite rocks.

S -

N -

F Ks EnL

Pykälä et al. 2020

Verrucaria lapponica Pykälä

On dolomite pebbles.

S -

N -

F EnL

Pykälä et al. 2017a

Verrucaria latebrosa Körb.

Thelidium latebrosa sensu Magnusson, lapsus in Magnusson (1936b)

Verrucaria litorea (Hepp) Zschacke

On rocks by streams and by shores of lakes, etc.

S Sm-TL

N Ho-No Tr Fi

F V U EH EP PK Kn PeP SoL EnL

Vainio 1921, Zschacke 1933b, Santesson 1939b, Thüs 2002, Elvebakk & Bjerke 2006

Verrucaria lignicola Zschacke

On bases and roots of trees on lake and brook shores.

S -

N -

F V

Pykälä & Breuss 2009

Verrucaria lyngei Servit

On siliceous rocks.

S -

N Ho Fi (Kaafjord 1917 Lynge)

F -

A doubtful species.

Servit 1950

Verrucaria macrostoma Dufour ex DC.

Verrucaria osloënsis H.Magn.

On calcareous rocks, etc.

S ÖI Gtl Dls Vg NrK Upl

N Ak Bu

F -

Zschacke 1933b, Fröberg 1989, Pykälä 2010a

Verrucaria maculiformis Kremp.

On bricks.

S Vg Srm Upl

N Fi

F V

Zschacke 1933a, Thor 2008

Verrucaria madida Orange

On stone in a stream.

S -

N Ho (Kvam 1999 Orange)

F -

Orange 2004b

Verrucaria magnussoniana Servít

On sun-exposed calcareous rocks.

S -

N Ak

F V U

Pykälä & Breuss 2009

Verrucaria margacea (Wahlenb.) Wahlenb.

Verrucaria aethiobola var. *leightonii* (Hepp) Vain.

Verrucaria aethiobola var. *margacea* (Wahlenb.) Vain.

Verrucaria applanata Hepp ex Zschacke

Verrucaria leightonii Hepp., non A.Massal.

On rocks by streams and by the shores of lakes, etc.

S Sk-TL

N Ak Op Bu Ro Ho ST No-Fi

F U-EH PH PK InL

Vainio 1921, Magnusson 1952a, Swinscow 1968, Thüs 2002

Verrucaria memnonia (Körb.) Arnold

On shaded siliceous and calcareous rocks (not by seashores).

S Bh Vg Ög

N Fi

F V-EK EnL

Zschacke 1933a, Magnusson 1952d

Verrucaria mimicrans Servít

Not in F, N or S. Erroneously reported from Finland (Pykälä et al. 2020).

Pykälä & Breuss 2008

Verrucaria modica Pykälä & Myllys

On calcareous pebbles.

S -

N -

F V

Pykälä et al. 2019

Verrucaria muralis Ach.

Verrucaria argillacea Fr.

Verrucaria rupestris Schrad., non (Scop.) F.H.Wigg.

On calcareous rocks, mortar etc.

S Sk-TL

N Ak Op Ho ST-Tr Fi?

F A-U St-ES PS KP Kn SoL EnL

Vainio 1921, Zschacke 1933a

Verrucaria murina Leight.

On calcareous rocks.

S Gtl

N -

F V

Zschacke 1933a

Verrucaria nigrescens Pers.

Verrucaria fuscoatra Pers.

On calcareous rocks.

S Sk-TL

N Ak Bu Te Ho ST No-Fi

F A-U EH ES PH PeP KiL

Vainio 1921, Zschacke 1933b

Verrucaria nigrofusca Servít

On calcareous and calcareous rocks.

S -

N -

F V U

Pykälä 2010a

Verrucaria nigroumbrina Servít

On calcareous rock in lime quarries.

S -

N -

F V KP

Pykälä 2011

Verrucaria obnigrescens Nyl.

On siliceous rocks.

S Sm Srm Vrm Upl

N Ho

F -

Vainio 1921, Zschacke 1933b, Magnusson 1955

Verrucaria obscura Th.Fr.

Verrucaria depressa Stenh., non Meyen & Flot.

Verrucaria depressula Servit

Thelidium stenhammarii Hellb.

Lithoicia stenholmii M.Choisy

On calcareous rocks.

S ÖI Gtl Hrij

N -

F -

Fries 1864, Hellbom 1869, Servit 1948, Fröberg 1989

Verrucaria ochrostoma (Borrer ex Leight.) Trevis.

On calcareous rocks.

S Ög

N -

F V U

Pykälä 2007, Thell et al. 2014

Verrucaria onegensis Vain.

On siliceous rock on lakeshore.

S -

N -

F V (Karjalohja 2008, Pykälä)

Pykälä 2010a

Verrucaria othmarbreussii Pykälä & Myllys

On calcareous rocks.

S -

N -

F V U PK Ks

Pykälä et al. 2017a

Verrucaria oulankaensis Pykälä & Myllys

On calcareous rocks on river shores.

S -

N -

F Ks

Pykälä et al. 2017b

Verrucaria pachyderma (Arnold) Arnold

On rocks in streams and by the shores of lakes.

S Sm Hl Bh Vg Vrm Upl Ång Nb LyL LuL(?)

N NT

F V

Zschacke 1933b, Santesson 1939b, Nordin 2002b, Pykälä 2008

Verrucaria papillosa Ach.

On a dolomite boulder.

S -

N -

F EnL (Pikku Malla 2007, Pykälä)

Pykälä 2010c

Verrucaria pararupestris Servít

On calcareous rocks.

S LyL (Strimasund 1924 Magnusson)

N -

F -

A doubtful species.

Servít 1952

Verrucaria petrosa (Ach.) Zahlbr.

Unknown application.

Vainio 1921, Navarro-Rosinés & Roux 1996

Verrucaria pilosoides Servít

On calcareous rock and pebbles in lime quarries.

S -

N -

F V PS KP

Pykälä 2011

Verrucaria pinguicula A.Massal.

On dolomite.

S -

N -

F EnL (Saana 2007, Pykälä)

Earlier reports from F, N and S refer to *Verrucaria integra*, a species with uncertain status.

Pykälä 2010c

Verrucaria placida Orange

On shaded siliceous rocks in small streams in woodland.

S -

N Ho

F -

Orange 2013

Verrucaria polysticta Borrer

On calcareous rocks.

S Gtl Bh Dls

N Ho

F V U

Orange 2004a

Verrucaria polystictoides Vain.

On mortar.

S Ög

N -

F ES (Savonlinna 1868 Carlenius)

Vainio 1921, Zschacke 1933b, Thell et al. 2014

Verrucaria praerupta Anzi

On calcareous seashore rock.

S -

N -

F V (Korppoo 2010, Pykälä)

Pykälä 2011

Verrucaria praetermissa (Trevis.) Anzi

On siliceous rocks in streams and under overhangs.

S Sk Hl Bh-Ög Vrm Upl Jmt LyL

N Ho Tr

F V

Magnusson 1939c, Swinscow 1968, Arvidsson et al. 1988, Orange 2000, Thüs 2002, Elvebakk & Bjerke 2006

Verrucaria prominula Nyl.

On seashore rocks in the *Hydropunctaria maura* zone.

S -

N Ho (Hanöy 1978 E. Klinkenberg)

F -

Flörke 1810

Verrucaria putnae Servit

On calcareous rock.

S -

N -

F V

Pykälä & Breuss 2011

Verrucaria raesaenii Pykälä & Myllyls

On calcareous rocks.

S -

N NT

F V Ks

Pykälä et al. 2019

Verrucaria rejecta Th.Fr.

On calcareous rocks and dolomite.

S TL

N No

F V EnL

Magnusson 1952a, Degelius 1955b

Verrucaria rimosella Nyl.

On calcareous pebbles.

S -

N -

F V (Västanfjärd 2008, Pykälä)

Pykälä 2010a

Verrucaria ruderum DC.

On calcareous rocks.

S Locality not reported.

N -

F V

Zschacke 1933b, Magnusson 1936b

Verrucaria rufofuscella Servít

On siliceous rock.

S -

N -

F V (Karjalohja 2008, Pykälä)

Pykälä 2010a

Verrucaria saanaensis Pykälä

On dolomite boulder.

S -

N -

F EnL

Pykälä et al. 2017a

Verrucaria saepincola Vain.

On lignum and bases and roots of trees on lakeshores.

S -

N -

F V

Pykälä 2008

Verrucaria schindleri Servít

On calcareous rocks, mortar etc.

S Bh? TL

N Ho

F V

Servít 1954, Degelius 1982

Verrucaria serpentinicola (Servít) Servít

Dermatocarpon subpruinsum var. *serpentinicola* Servít

On siliceous rocks (serpentine).

S Dls (loc.? leg. Magnusson)

N -

F -

A doubtful species.

Servít 1952

Verrucaria sparsiuscula Nyl.

Verrucaria christiansenii Servít

On pebbles in lime quarries.

S -
N NT
F V St

Pykälä 2011, Holien et al. 2016a

Verrucaria sphinctrinella f. elevata Servít

Unknown application.

Verrucaria stenhammarii (Servít) Servít

Verrucaria danubica var. *stenhammarii* Servít

On calcareous rocks.

S Gtl (loc.? leg. Stenhammar)
N -
F -

A doubtful species.

Servít 1946, Servít 1949

Verrucaria subdevergens Pykälä & Myllys

On dolomite rocks.

S -
N -
F Ks

Pykälä et al. 2020

Verrucaria subfossans Vain.

On calcareous rocks.

S -
N Ak
F V

Vainio 1921, Magnusson 1948c

Verrucaria subfuliginea Vain.

On calcareous rocks, crystalline schist, etc.

S LyL LuL TL
N -
F EH Kn PeP

Vainio 1921, Magnusson 1952a

Verrucaria subfuscata H.Magn.

Verrucaria scabridula H.Magn.

On siliceous, slaty rocks in crevices.

S TL
N -
F EnL

Magnusson 1952a, Pykälä 2010c, Pykälä & Breuss 2011

Verrucaria subglobulificans H.Magn.

On calcareous, slaty rocks under an overhanging cliff.

S TL (Nuolja 1921 Magnusson)

N -

F -

Magnusson 1952a, McCarthy 1988

Verrucaria subconjunctiva Nyl.

On dolomite pebbles.

S -

N -

F V PK K_s

The first report of this species belong to *V. kuusamoensis* (Pykälä et al. 2020).

Pykälä 2010c, Pykälä et al. 2020

Verrucaria sublapponica Pykälä & Myllys

On dolomite pebbles.

S -

N -

F EnL

Pykälä et al. 2017a

Verrucaria submuralis Nyl.

Not in F, N or S. Incorrectly reported from F.

Verrucaria subtilis Müll.Arg.

Verrucaria hypophaea (J.Steiner & Zahlbr.) Servit

On calcareous rocks.

S -

N -

F V U ES PK KP K_s

Pykälä et al. 2020

Verrucaria subviridula Vainio

On concrete.

S -

N -

F V

Vainio 1921

Verrucaria tallbackaensis Pykälä et al.

On limestone.

S -

N -

F U

Pykälä et al. 2019

Verrucaria tectorum (A.Massal.) Körb.

Verrucaria nigrescens f. *tectorum* (A.Massal.) Coppins & Aptroot

Verrucaria viridula f. *tectorum* (A.Massal.) J.R.Laundon

On calcareous rock and mortar.

S Vg Nrk

N Ho

F -

Zschacke 1933b, Laundon 1967, Botnen 1984

Verrucaria tenebrica H.Magn.

On calcareous rocks.

S TL

N -

F EnL

Magnusson 1952a, Pykälä 2010c

Verrucaria thalassina (Zahlbr.) Zschacke

On shells in a bank of shell gravel.

S Bh (Uddevalla 1942 Magnusson)

N -

F -

Magnusson 1945b

Verrucaria tornensis H.Magn.

On dolomite.

S TL

N -

F V Ks

Magnusson 1952a, Pykälä 2010b

Verrucaria trabalis Nyl.

On inundated lignum.

S Upl

N -

F EH (Korpilahti Vainio)

Vainio 1921, Zschacke 1933b

Verrucaria trabicola Arnold ex Servit

On bases and roots of *Alnus* and *Betula* on lakeshores.

S -

N -

F V

Pykälä 2010a

Verrucaria transfugiens Zschacke

On calcareous rocks.

Not in F, N or S. Erroneously reported from Finland (Pykälä et al. 2020).

Pykälä & Breuss 2008

Verrucaria transiliens (Arnold) Lettau

On calcareous rocks.

S -

N -

F V (Skraatila 2003, Pykälä)

Pykälä 2007

Verrucaria triglavensis Servit

On calcareous rock.

S -

N -

F V

Pykälä 2013

Verrucaria tristis (A.Massal.) Kremp.

On calcareous rocks.

S -

N Locality not reported.

F -

Zschacke 1933c

Verrucaria umbrinula Nyl.

On siliceous rocks, slate, etc.

S Sk-TL

N Ho NT No Fi

F A-EH EP-PK Kn OP Ks KiL

Vainio 1921, Zschacke 1933b, Magnusson 1952a

Verrucaria umbrosa (A.Massal.) Trevis.

Unknown application.

Magnusson 1936b

Verrucaria vacillans Pykälä & Myllys

On dolomite in alpine areas.

S -

N -

F EnL

Pykälä et al. 2020

Verrucaria vaenerensis Servit

On sandstone (by the shore of Lake VÄ́nern).

S Vg (Kinnekulle 1940 Magnusson)

N -

F -

Servit 1952

Verrucaria velutina (Bernh.) Ach.

Thelidium velutinum (Bernh.) Körb.

A species of uncertain identity.

Orange 1991a

***Verrucaria vicinalis* Arnold**

On wall in lime-quarry.

S -

N -

F V (Pohja 2006, Pykälä)

Pykälä 2010a

***Verrucaria viridula* (Schrad.) Ach.**

Verrucaria griseorubens Mig.

Verrucaria obductilis (Nyl.) Zschacke

Verrucaria papillosa Ach.

On calcareous rocks (as well as on siliceous rocks?).

S Sk Öl Gtl Vg Ög Nrk

N Ak? Ho NT

F V

Vainio 1921, Zschacke 1933b, Fröberg 1989, Pykälä 2010a

***Verrucaria vitikainenii* Pykälä, Launis & Myllys**

On calcareous rocks.

S -

N -

F V PK Ks

Pykälä et al. 2017b

***Verrucaria xyloxena* Norman**

Verrucaria melaenella Vain.

Verrucaria terrestris (Arnold) Vain, non (Th.Fr.) Tuck

Thelidium velutinoides (Hellb.) Servit

Verrucaria velutinoides Hellb.

Thelidium velutinum auct., p.p.

Thelidium xyloxena (Norman) Norman

Terricolous, on basic soil, rarely lignicolous.

S Bh Ög-Hls TL

N Bu Tr

F V-EK PeP

Hellbom 1871b, Magnusson 1942b, Orange 1991a

Vestergrenopsis elaeina (Wahlenb.) Gyeln.

Pannaria elaeina (Wahlenb.) Nyl.

Tingiopsidium elaeinum (Wahlenb.) Hafellner & T.Sprib.

On more or less wet rocks (crystalline schist, etc.).

S LuL TL

N Op Ro-Fi

F -

Degelius 1943a, Jørgensen 2007i, Ahti et al. 2012

Vestergrenopsis isidiata (Degel.) E.Dahl

Pannaria isidiata Degel.

Tingiopsidium isidiatum (Degel.) Hafellner & T.Sprib.

On more or less wet rocks (crystalline schist, etc.).

S Hrij Jmt LyL-TL

N Op Ho-Fi

F InL

Degelius 1943a, Magnusson 1948a, Jørgensen 2007i, Ahti et al. 2012

Vezeadaea acicularis Coppins

Terricolous, on soil among bryophytes.

S Srm

N -

F V U

Coppins 1987, Pykälä 2006, Svensson & Westberg 2010, Svensson & Westberg 2010

Vezeadaea aestivalis (Ohlert) Tscherm.-Woess & Poelt

On bryophytes or soil.

S Sk ÖI HI Vsm Hls

N Ho

F V EH

Coppins 1987, Arup & Ekman 1992, Giralt et al. 1993

Vezeadaea leprosa (P.James) Vězda

On mortar and on moribund bryophytes on rocks.

S Bl Vg Gst

N Ho

F -

Coppins 1987, Tønsberg 1990a, Giralt et al. 1993, Thor 1993a, Ernst 1995, Hemberg 2014

Vezeadaea retigera Poelt & Döbbeler

On calcareous soil and on bryophytes on an old mortar wall.

S Vsm Upl

N Øf

F V

Coppins 1987, Tønsberg 1990a, Giralt et al. 1993, Svensson & Westberg 2010

Vezdaea rheocarpa Poelt & Döbbeler

On *Peltigera canina*.

S Upl (Löfstabruk 1996 Hafellner)

N Ak

F V

Poelt & Döbbeler 1977, Giralte et al. 1993, Pykälä 2017, Klepsland 2020

Violella fucata (Stirt.) T.Sprib.

Lecidea fucata Stirt.

Mycoblastus fucatus (Stirt.). Zahlbr.

Mycoblastus sterilis Coppins & P.James

On bark and lignum of deciduous trees and conifers.

S Sk-Dlr Hls Ång Vb Nb LuL

N Øf-Tr

F V U EH ES Ks

Coppins & James 1979b, Tønsberg 1992b, Spribille et al. 2011

***Vouauxiella lichenicola (Linds.) Petr. & Sydow**

On *Lecanora argentata*, *L. chlorotera*, *L. pulicaris*, *L. subrugosa* (apothecia, rarely thallus).

S Sk-Upl Hls

N VA Ro Ho

F V PeP

Report from TL refers to *Nigropuncta rugulosa*.

Santesson 1949, Hawksworth 1981b, Santesson 1984b, Santesson 1986, Santesson 1988

***Vouauxiella verrucosa (Vouaux) Petr. & Sydow**

On *Lecanora campestris* (apothecia, thallus).

S Gtl

N -

F -

Hawksworth 1981b

***Vouauxiomyces ramalinae (Nordin) D.Hawksw.**

Phoma ramalinae Nordin

On *Ramalina fraxinea*, *R. fastigiata*, *R. calicaris*, *R. dilacerata* (apothecia, thallus).

S Sk-Mpd

N Øf

F U PeP Ks

Anamorph of *Abrothallus suecicus*.

Nordin 1964, Hawksworth 1981b, Santesson 1984b, Santesson 1986, Santesson 1988

***Vouauxiomyces santessonii D.Hawksw.**

On *Platismatia glauca* (thallus).

S Vg Vrm Upl Jmt LyL

N -

F PS

Anamorph of *Abrothallus cetrariae*.

Hawksworth 1981b, Santesson 1984b

**Vouauxiomyces truncatus* (B.de Lesd.) Dyko & D.Hawksw.

Not in F, N or S; report in Santesson (1949), refers to *Vouauxiomyces santessonii*.

***Vulpicida juniperinus* (L.) J.-E.Mattsson & M.J.Lai**

Cetraria juniperina (L.) Ach.

Cetraria juniperina var. *terrestris* Schaer.

Tuckermannopsis juniperina (L.) Hale

On bark of shrubs, primarily *Juniperus*, and on calcareous ground.

S Sk-TL (partly extinct)

N Öf-Te Va-Fi

F A-KP OP-InL

Mattsson 1988, Mattsson 1991, Mattsson 1993, Mattsson & Lai 1993, Thell et al. 2011a

***Vulpicida pinastri* (Scop.) J.-E.Mattsson & M.J.Lai**

Cetraria caperata sensu Vain.

Cetraria pinastri (Scop.) Gray

Tuckermannopsis pinastri (Scop.) Hale

Vulpicida pinastri var. *soralifera* (Frey) J.-E.Mattsson

On acidic bark and lignum, rarely on rock.

S Sk-TL

N Øf-Fi

F A-InL

Mattsson 1988, Mattsson 1991, Mattsson 1993, Mattsson & Lai 1993, Thell et al. 2011a

***Vulpicida tilesii* (Ach.) J.-E.Mattsson & M.J.Lai**

Cetraria tilesii Ach.

Not in F, N or S.

***Vulpicida tubulosus* (Schaer.) J.-E.Mattsson & M.J.Lai**

Cetraria alvarensis (Wahlenb.) Vain.

Cetraria juniperina var. *alvarensiformis* Du Rietz

Cetraria juniperina var. *alvarensis* (Wahlenb.) Torss.

Cetraria juniperina var. *campestris* Stenh.

Cetraria juniperina var. *pseudopinastri* Du Rietz

Cetraria tilesii auct. p.p., quoad specim. scand., non J.-E. Mattsson & M.J.Lai

Cetraria tubulosa (Schaer.) Zopf

On open calcareous ground (limestone pavements, etc.).

S ÖI Gtl Vg NrK Upl

N Op Vf Ho MR Tr

F A-U

Mattsson 1988, Mattsson 1991, Mattsson 1993, Mattsson & Lai 1993, Elvebakk & Bjerke 2006, Thell et al. 2011a

Xanthocarpia crenulatella (Nyl.) Frödén et al.

Caloplaca crenulatella (Nyl.) H.Olivier

Caloplaca lactea auct., non (A.Massal.) Zahlbr.

On calcareous rocks, concrete, etc.

S Sk-Upl

N Ak? Op SF No?

F V-EK

Malme 1923b, Hansen et al. 1987, Hansen et al. 1987, Navarro-Rosinés & Hladun 1996

Xanthocarpia lactea (A.Massal.) A.Massal.

Candelariella calcicola (Galløe) Zahlbr., not validly published

Gyalolechia calcicola Galløe, not validly published

Caloplaca lactea (A.Massal.) Zahlbr.

Not in F, N or S.

Arup et al. 2013

Xanthocarpia marmorata (Bagl.) Frödén et al.

Caloplaca marmorata Bagl.

On calcareous rock and clam shells.

S Gtl Bh

N Øf

F -

Arup et al. 2014b, Klepsland 2020

Xanthocarpia tominii (Savicz) Frödén et al.

Caloplaca tominii Savicz

On calcareous soil.

S -

N Op SF

F -

Ahlner 1949, Kleiven 1959, Nordin 1972, Arup et al. 2013

Xanthomendoza borealis (R.Sant. & Poelt) Søchting et al.

Xanthoria borealis R.Sant. & Poelt

On rock; ornithocoprophilous.

S Jmt ÅsL TL

N He Op SF ST NT Tr Fi

F Ks? KiL EnL InL

Poelt & Petutsching 1992, Moberg 1994, Elvebakk & Bjerke 2006, Arup et al. 2013

Xanthomendoza fallax (Hepp) Søchting et al.

Xanthoria fallax (Hepp) Arnold

Xanthoria substellaris (Ach.) Vain.

On nutrient-enriched stone walls and bark.

S Sk BI? Ög NrK Vsm

N Ak Vf Te

F -

Poelt & Petutsching 1992, Thor & Arvidsson 1999, Lindblom & Timdal 2004, Lindblom 2007, Hagström 2012b

Xanthomendoza fulva (Hoffm.) Söchting et al.

Xanthoria candelaria var. *marginata* Räsänen
Xanthoria fulva (Hoffm.) Poelt & Petutschnig
Xanthomendoza subramulosa, uncertain synonym
Libertiella xanthoriae Keissl.

On nutrient-rich bark of deciduous trees.

S Sk-Upl Hls
N Øf-Te Ho-NT
F A-EP PS KP Kn

Poelt & Petutsching 1992

Xanthomendoza oregana (Gyeln.) Söchting et al.

Xanthomendoza poeltii (S.Y.Kond. & Kärnefelt) Söchting et al.
Xanthoria poeltii S.Y.Kond. & Kärnefelt
Xanthoria ulophyllodes auct. scand.

On bark of deciduous trees in parks, avenues, on churchyards etc.

S Sk Bl Öl Sm Bh Vg Ög Srm Vsm
N Øf
F -

Kondratyuk & Kärnefelt 1997, Thor & Arvidsson 1999, Lindblom & Blom 2014, Lindblom et al. 2019

Xanthomendoza ulophyllodes (Räsänen) Söchting et al.

Xanthoria ulophyllodes Räsänen

On schistose outcrops and boulders in shaded or semi-shaded habitats. Also on *Betula*.

S -
N Op
F -

Reports from F and S refer to *Xanthomendoza oregana*.

Lindblom et al. 2019

Xanthoparmelia angustiphylla (Gyeln.) Hale

On rocks.

S Öl
N -
F -

Skult 1992, Elix & Thell 2011c

Xanthoparmelia conspersa (Ach.) Hale

Parmelia conspersa (Ach.) Ach.
Parmelia conspersa f. *arboricola* Koskinen
Parmelia stenophylla f. *corticola* Koskinen

On siliceous rock.

S Sk-TL
N Øf-Fi
F A-PeP

Jølle 1978, Skult 1990, Skult 1992, Elix & Thell 2011c

Xanthoparmelia delisei (Duby) O.Blanco et al.

Neofuscelia delisei (Duby) Essl.

Parmelia delisei (Duby) Nyl.

Neofuscelia pulla var. *delisei* (Duby)

Parmelia pulla var. *delisei* (Duby) H.Magn.

On siliceous rock.

S Sk-Upl Nb

N Øf-Fi

F A-EP PeP

Elix 2002, Elix & Thell 2011c

Xanthoparmelia loxodes (Nyl.) O.Blanco et al.

Parmelia isidiotyla Nyl.

Neofuscelia loxodes (Nyl.) Essl.

Parmelia loxodes Nyl.

On siliceous rock.

S Sk-Hls

N Øf Ak Bu-NT

F A-PH

Leuckert et al. 1975a, Elix & Thell 2011c

Xanthoparmelia mougeotii (Schaer. ex D.Dietr.) Hale

Parmelia mougeotii Schaer. ex D.Dietr.

On siliceous rock.

S Sk-Vrm Upl

N Øf Ak Vf-Ho MR NT

F A-St

Reve 1981, Timdal 1982, Elix & Thell 2011c

Xanthoparmelia plittii (Gyeln.) Hale

Parmelia plittii Gyeln.

On exposed rocks.

S -

N Øf-Fi

F -

Jølle 1978, Skult 1990, Elix & Thell 2011c

Xanthoparmelia protomatrae (Gyeln.) Hale

Parmelia protomatrae Gyeln.

Saxicolous.

S -

N Te AA

F -

Elix & Thell 2011c

Xanthoparmelia pulla (Ach.) O.Blanco et al.

Neofuscelia perrugata (Nyl.) Elix

Parmelia proluxa (Ach.) Carroll

Neofuscelia pulla (Ach.) Essl.

Neofuscelia pulla var. *pulla*

Parmelia pulla Ach.

On siliceous rock.

S Sk Bl Gtl-Upl Hls-Ång

N Øf-Fi

F A-EP PeP

Elix & Thell 2011c

Xanthoparmelia stenophylla (Ach.) Ahti & D.Hawksw.

Parmelia molliuscula auct.

Parmelia somloënsis Gyeln.

Xanthoparmelia somloënsis (Gyeln.) Hale

Parmelia stenophylla (Ach.) Heugel

Parmelia taractica auct., non Kremp.

Xanthoparmelia taractica auct.

On siliceous rock.

S Öl-Sm Bh-Ång Vb LyL-LuL

N Øf-Bu Te AA SF

F A-Kn Ks

Krog 1978, Ahti & Hawksworth 2005, Elix & Thell 2011c

Xanthoparmelia tinctina (Maheu & A.Gillet) Hale

Parmelia tinctina Maheu & A.Gillet

On siliceous rock.

S Sk Hl Bh Vg

N Øf Bu-Ho

F -

Magnusson 1942b, Almborn 1955b, Jølle 1978, Elix & Thell 2011c

Xanthoparmelia verruculifera (Nyl.) O.Blanco et al.

Parmelia glomellifera (Nyl.) Nyl.

Parmelia isidiotyta var. *glomellifera* (Nyl.) Maas Geest.

Parmelia loxodes var. *verruculifera* (Nyl.) Clauzade & Cl.Roux

Neofuscelia verruculifera (Nyl.) Essl.

Parmelia verruculifera Nyl.

On siliceous rock.

S Sk-Öl Sm Bh Vg Nrk Vrm Upl Gst

N Ak-Bu Ro-ST

F EH ES

Leuckert et al. 1975a, Tønsberg et al. 1996, Elix & Thell 2011c

Xanthoria aureola (Ach.) Erichsen

Xanthoria ectaneoides (Nyl.) Zahlbr.

On exposed rocks and rarely on lignum, mainly on seashores.

S Bh-Sk-Srm

N Øf-VA-Fi

F A V

Lindblom & Ekman 2005, Lindblom et al. 2005

Xanthoria calcicola Oxner

Xanthoria parietina var. *aureola* f. *congranulata* (Cromb.) de Lesd.

Mainly on siliceous boulders, brick or tiles influenced by calcareous seepage from surrounding, calcareous cement in stone-walls, rarely on dust-enriched bark of deciduous trees.

S Sk Gtl Sm Hl

N -

F -

Oxner 1937, Almborn 1948, Arup et al. 1997, Borg & Franc 1998, Thor & Arvidsson 1999, Lindblom & Ekman 2005, Lindblom et al. 2005, Lindblom & Blom 2010

Xanthoria parietina (L.) Th.Fr.

Xanthoria ectanea (Ach.) Räsänen

On nutrient-rich bark or dust-enriched lignum, rock, cement, tiles, etc.

S Sk-LyL Nb (rare in northern part)

N Øf-Fi

F A-EnL

Lindblom & Ekman 2005, Lindblom et al. 2005

***Xanthoriicola physciae (Kalchbr.) D.Hawksw.**

Coniosporium physciae (Kalchbr.) Sacc.

On *Xanthoria parietina* (apothecia, rarely thallus).

S Sk-Gst

N Ro Fi

F V U EH

Santesson 1949, Hawksworth & Punithalingam 1973, Hawksworth 1979a, Santesson 1984b, Santesson 1986

***Xenonectriella lutescens (Rehm) Weese**

Nectria lutescens Rehm.

On *Collema fasciculare*, *Peltigera canina*, *P. didactyla* (thallus).

S -

N NT (Fosnes 1939 Ahlner)

F V U EH ES

von Keissler 1930, Puolasmaa et al. 2012

***Xenonectriella protopannariae (Zhurb.) Brackel**

Pronectria protopannariae Zhurb.

On *Protopannaria pezizoides* (thallus, apothecia).

S -

N Tr (Skibotn 2003 M. Zhurbenko)

F -

Zhurbenko 2007, von Brackel 2014

Xylographa carneopallida (Räsänen) T.Sprib.

Xylographa rubescens var. *carneopallida* Räsänen

On wood.

S -
N -
F PS

Spribille et al. 2015

Xylographa difformis (Vain.) Vain.

Xylographa parallela var. *difformis* Vain.

On wood, especially on snags.

S -
N -
F Kn

Spribille et al. 2015

Xylographa erratica T.Sprib.

On wood of conifers.

S Vrm
N -
F V

Spribille et al. 2015

Xylographa opegraphella Nyl. ex Rothr.

On old wood at or near seashores.

S Öl Bh Upl Gst Hls Mpd Vb
N Fi
F A V

Brodo 1992, Brodo 1992, Moberg 1997, Spribille et al. 2015

Xylographa pallens (Nyl.) Harm.

On exposed wood.

S Dlr Hrj
N ST
F U V SoL

Thor 2015, Spribille et al. 2015

Xylographa parallela (Ach.:Fr.) Fr.

Xylographa abietina (Pers.) Zahlbr.

Xylographa laricicola Nyl.

Xylographa minutula Korb.

Opegrapha parallela (Ach.) Ach.

Stictis parallela (Ach.) Fr.

Hysterium parallelum (Ach.) Wahlenb.

Lichen parallelus Ach.

On lignum of conifers and deciduous trees.

S Sk-TL

N VA-Fi

F A-InL

Degelius 1930, Räsänen 1939, Degelius 1942

Xylographa rubescens Räsänen

Xylographa abietina var. *rubescens* (Räsänen) Degel.

On exposed conifer wood.

S Upl Dlr Hls Jmt

N -

F V EH PeP

Thor 2015, Spribille et al. 2015

Xylographa soralifera Holien & Tønsberg

On conifer lignum.

S Upl Dlr Hls Hlj Jmt ÅsL

N Ho MR-Fi

F -

Holien & Tønsberg 2008

Xylographa trunciseda (Th.Fr.) Minks ex Redinger

Lecidea trunciseda Th.Fr.

On conifer lignum.

S Vg Dls Srm Upl Dlr Hls

N Ak Op Ho ST-No

F V St EH InL

Holien 1998b, Spribille et al. 2015

Xylographa vitiligo (Ach.) J.R.Laundon

Xylographa corrugans Norman

Xylographa spilomatica (Anzi) Th.Fr.

On lignum of *Picea* and *Pinus*, sometimes *Juniperus* or *Quercus*.

S Sk-PL TL

N Ak-Bu AA Ho-Fi

F V St EH PS PK Kn-InL

Laundon 1963

Xylopsora caradocensis (Nyl.) Bendiksby & Timdal

Hypocenomyce caradocensis (Leight. ex Nyl.) P.James & Gotth. Schneid.

Toninia caradocensis (Nyl.) J.Lahm

On acidic tree bark and lignum.

S Sk-Mpd Jmt Vb

N Øf-He Bu Vf AA VA

F V U

Almborn 1948, Baumgärtner 1979, Timdal 1984a

Xylopsora friesii (Ach.) Bendiksby & Timdal

Hypocenomyce friesii (Ach.) P.James & Gotth. Schneid.

Lecidea friesii Ach.

Psora friesii Hellb.

On lignum or bark, of conifers, sometimes on lignum of deciduous trees.

S Gtl-TL

N Øf-AA Ro-Fi

F V-InL

Fries 1874, Timdal 1984a, Schneider 1980

Xyloschistes platytropa (Nyl.) Vain.

Xylographa platytropa Nyl.

On lignum.

S -

N -

F EH PK InL

Redinger 1938, Poelt 1969

Zahlbrucknerella calcarea (Herre) Zahlbr.

Ephebe lanata f. *tenuis* H.Magn.

Lecanephebe meylanii Frey

On calcareous rocks, dolomite, calcareous schists, etc.

S TL

N No Tr

F -

Magnusson 1952a, Degelius 1955b, Henssen 1963a, Henssen 1977, Jørgensen 2007e, Ahti et al. 2012

***Zhurbenkoa epicladonia (Nyl.) Flakus et al.**

Arthonia epicladonia (Nyl.) Alstrup & Zhurb.

Biatorina epicladonia (Nyl.) Arnold

Catillaria epicladonia (Nyl.) H.Olivier

Conida epicladonia (Nyl.) anon.

Lecidea epicladonia Nyl.

Scutula epicladonia (Nyl.) Sacc.

On *Cladonia arbuscula*, *C. rangiferina* (thallus).

S Jmt (Handöl 1948 R. Santesson)

N No

F -

von Keissler 1930, Santesson 1949, Zhurbenko & Alstrup 2004, Klepsland 2020

Zwackhia sorediifera (P.James) Ertz

Opegrapha sorediifera P.James

On bark of deciduous trees.

S Sk Öl-Bh Vg-Srm Upl

N VA Ho NT No

F -

James 1962, Arvidsson et al. 1988, Tønsberg 1992b, Arup et al. 1997, Thor & Arvidsson 1999, Diederich et al. 2012a

Zwackhia viridis (Ach.) Poetsch & Schied.

Opegrapha viridis (Ach.) Behlen & Desberger

On bark of deciduous trees and shrubs.

S Sk-Ög Srm Upl

N -

F -

Degelius 1944a, Almborn 1948, Torrente & Egea 1989, Arup et al. 1997, Thor & Arvidsson 1999

***Zwackhiomyces berengerianus (Arnold) Grube & Triebel**

On sterile lichen (*Mycobilimbia* sp.?).

S ÅsL (Vilhelmina 1988 G. Thor)

N -

F -

Grube & Hafellner 1990, Thor 1992a

***Zwackhiomyces coepulonus (Norman) Grube & R.Sant.**

Arthopyrenia coepulona Norman

On *Xanthoria elegans*, *X. soredata*, *X. parietina*, *Caloplaca flavorubescens*, *C. lactea* (thallus).

S Öl Gtl Nrk Upl Hrij

N No Tr

F V

Norman 1869, Grube & Hafellner 1990, Obermayer 1991

***Zwackhiomyces dispersus (J.Lahm ex Körb.) Triebel & Grube**

Arthopyrenia dispersa J.Lahm ex Körb.

Stigmatidium dispersum (J.Lahm ex Körb.) D.Hawksw.

Pharcidia rhexoblephara (Vain.) Sacc.

Verrucaria rhexoblephara Vain.

On *Protoblastenia rupestris* (thallus).

S Öl Dlr

N -

F InL

Grube & Hafellner 1990

***Zwackhiomyces lacustris (Arnold) Orange**

Thelidium lacustre Arnold

Pharcidia lacustris (Arnold) Zopf

On *Ionaspis lacustris* (thallus).

S -

N MR (Smøla 1937 R. Santesson)

F -

Orange 2002b

***Zwackhiomyces lecanorae (Stein) Nik. Hoffm. & Hafellner**

Thrombium lecanorae Stein

On *Lecanora albescens*, *Lecanora* sp. (thallus).

S Öl Bh

N -

F -

Hoffmann & Hafellner 2000

***Zwackhiomyces sphinctrinoides (Zwackh) Grube & Hafellner**

Didymella sphinctrinoides (Zwackh) Berl. & Voglino

On *Lecanora albescens* (thallus).

S Öl? TL

N -

F V

Grube & Hafellner 1990

Index of names

abbrevians (Nyl.) Th.Fr., *Bacidia* = *Scutula igniarii* (Nyl.) S.Ekman

abdutum Triebel, Sphaerellothecium

abduanum Anzi, *Stereocaulon* = *Stereocaulon incrustatum* Flörke

abelonae (P.M.Jørg.) Wedin & Hafellner, Corticiruptor

abeloniae P.M.Jørg., *Arthonia* = *Corticiruptor abelonae* (P.M.Jørg.) Wedin & Hafellner

aberrans (Hav. ex Lynge) Gyeln., *Cyanisticta* = *Pseudocypbellaria norvegica* (Gyeln.) P.James

abieticola Vain., *Didymella* = *Arthopyrenia cinereopruinosa* (Schaer.) A.Massal.

abietina (Ach.) Körb., Lecanactis

abietina Humb., *Verrucaria* = *Schismatomma pericleum* (Ach.) Branth & Rostr.

abietina (Pers.) Zahlbr., *Xylographa* = *Xylographa parallela* (Ach.:Fr.) Fr.

abietina var. *rubescens* (Räsänen) Degel., *Xylographa* = *Xylographa rubescens* Räsänen

abietinum Pers., Calicium

abietinum (Humb.) Almq., *Schismatomma* = *Schismatomma pericleum* (Ach.) Branth & Rostr.

abietinum (Ach.) A.Massal., *Schismatomma* = *Lecanactis abietina* (Ach.) Körb.

abietinus Ach., *Lichen* = *Lecanactis abietina* (Ach.) Körb.

aboënsis Gyeln., *Parmelia* = *Pseudevernia furfuracea* (L.) Zopf

abscondita (Th.Fr.) Lojka, *Lecanactis* = *Lecanographa abscondita* (Th.Fr.) Egea & Torrente

abscondita (Th.Fr.) Egea & Torrente, Lecanographa

abscondita (Coppins & Vězda) Hafellner, *Leucocarpia* = *Psoroglaena abscondita* (Coppins & Vězda) Hafellner & Türk

abscondita Coppins & Vězda, *Macentina* = *Psoroglaena abscondita* (Coppins & Vězda) Hafellner & Türk

abscondita Th.Fr., *Opegrapha* = *Lecanographa abscondita* (Th.Fr.) Egea & Torrente

abscondita subsp. *catarrhapha* Vain., *Opegrapha* = *Opegrapha catarrhapha* (Vain.) H.Olivier

abscondita f. *dissoluta* Nyl., *Opegrapha* = *Lecanographa abscondita* (Th.Fr.) Egea & Torrente

abscondita (Nyl.) Arnold, Polyblastia

abscondita (Coppins & Vězda) Hafellner & Türk, Psoroglaena

absconditum (Hepp) Rabenh., *Thelidium* = *Thelidium decipiens* (Nyl.) Kremp.

absistens (Nyl.) Arnold, Bacidia

acarosporoides Räsänen, *Malmgrenia* = *Pyrenopsis granulifera* Nyl.

accedens (Arnold) Lettau, *Bacidia* = *Bilimbia sabuletorum* (Schreb.) Arnold

accedens Arnold, *Bilimbia* = *Bilimbia sabuletorum* (Schreb.) Arnold

accedens (Arnold) V.Wirth ex Hafellner, *Mycobilimbia* = *Bilimbia sabuletorum* (Schreb.) Arnold

accedens (Arnold) Hafellner in Hafellner & Türk, *Myxobilimbia* = *Bilimbia sabuletorum* (Schreb.) Arnold

acceptanda Nyl., *Lecanora* = *Koerberiella wimmeriana* (Körb.) Stein

acceptanda var. *littoralis* (Vain.) Vain., *Lecanora* = *Koerberiella wimmeriana* (Körb.) Stein

accline (Flot.) A.Massal., *Arthrosporum* = *Toninia populorum* (A.Massal.) Kistenich et al.

acclinis (Flot.) Zahlbr., *Bacidia* = *Toninia populorum* (A.Massal.) Kistenich et al.

acerina (Ach.) Arnold, *Bacidia* = *Bacidia polychroa* (Th.Fr.) Körb.

acerina sensu Th.Fr., Malme etc., Bacidia = Bacidia laurocerasi (Delise ex Duby) Zahlbr.

acervulata Nyl., Lecidea = Toniniopsis aromatica (Sm.) Kistenich et al.

acervulata (Nyl.) Kremp., Toninia = Toniniopsis aromatica (Sm.) Kistenich et al.

acetabuli Diederich, Abrothallus

acetabulum (Neck.) Essl., Melanelia = Pleurosticta

acetabulum (Neck.) Elix & Lumbsch

acetabulum (Neck.) Duby, Parmelia = Pleurosticta

acetabulum (Neck.) Elix & Lumbsch

acetabulum (Neck.) Elix & Lumbsch, Pleurosticta

achariana A.L.Sm., Lecanora = Protoparmeliopsis

achariana (A.L.Sm.) Moberg & R.Sant.

**achariana (A.L.Sm.) Moberg & R.Sant.,
Protoparmeliopsis**

acharii (Westring ex Ach.) Sommerf., Lecanora = Ionaspis lacustris (With.) Lutzoni

achrista (Sommerf.) Britzelm., Lecidea = Lecidella euphorea (Flörke) Hertel

achristotera Nyl., Lecidea = Lecidella elaeochroma (Ach.) M.Choisy

achristotera (Nyl.) Hertel & Leuckert, Lecidella = Lecidella elaeochroma (Ach.) M.Choisy

aciculare (Ach.) Ach., Calicium = Chaenotheca hispidula (Ach.) Zahlbr.

acicularis Coppins, Vezdaea

acrocyanea (Th.Fr.) H.Magn., Lecidea = Lecidella patavina (A.Massal.) Knoph & Leuckert

acroglypta (Norman) Aptroot, Normandina

acroglyptum Norman, Thelidium = Normandina

acroglypta (Norman) Aptroot

acrotella Ach., Verrucaria

acrotelloides Servit, Thelidium

acrotelloides A.Massal., Verrucaria

acrotellum Arnold, Thelidium

acrustacea Arnold, Catillaria = Kiliasia athallina (Hepp) Hafellner

actinellum Nyl., Pyrenidium

actinota Wahlenb. in Ach., Variolaria = Varicellaria lactea (L.) I.Schmitt & Lumbsch

actophila Wedd., Lecanora

aculeata (Schreb.) Fr., Cetraria

aculeata (Schreb.) Ach., Cornicularia = Cetraria

aculeata (Schreb.) Fr.

aculeata var. muricata (Ach.) Ach., Cornicularia = Cetraria muricata (Ach.) Eckfeldt

aculeatum (Schreb.) Link, Coelocaulon = Cetraria aculeata (Schreb.) Fr.

aculeatum subsp. hispidum (Cromb.) D.Hawksw., Coelocaulon = Cetraria muricata (Ach.) Eckfeldt

acuminata (Ach.) Norrl., Cladonia

acuminata subsp. foliata (Arnold) Vain., Cladonia = Cladonia acuminata (Ach.) Norrl.

acuminata var. norrlinii Lynge, Cladonia = Cladonia acuminata (Ach.) Norrl.

acutior (Nyl.) Vain., Arctomia = Arctomia delicatula Th.Fr.

acutior Nyl., Pannaria = Arctomia delicatula Th.Fr.

acutior Nyl., Pannularia = Arctomia delicatula Th.Fr.

**adaequatum (Nyl.) M.Prieto & Wedin,
Allocalicium**

adaequatum Nyl., Calicium = Allocalicium

adaequatum (Nyl.) M.Prieto & Wedin

adaequatum (Nyl.) Vain., Embolidium = Allocalicium adaequatum (Nyl.) M.Prieto & Wedin

**adastra (Sparrius & Aptroot) M.Hauck & V.
Wirth, Bacidina**

adelminienii Zschacke, Verrucaria

adglutinata (Anzi) Gyeln., Anziella = Placynthium flabellosum (Tuck.) Zahlbr.

adglutinata (Kremp.) A.Massal., Heppia

**adglutinata (Flörke) H.Mayrhofer & Poelt,
Hyperphyscia**

adglutinata (Flörke) Nyl., Physcia = Hyperphyscia

adglutinata (Flörke) H.Mayrhofer & Poelt

adglutinata (Flörke) M.Choisy, Physciopsis =
Hyperphyscia adglutinata (Flörke) H.Mayrhofer &
Poelt

adglutinatum (Anzi) Trevis., Placynthium =
Placynthium flabellosum (Tuck.) Zahlbr.

adjuncta (Th.Fr.) Hafellner, Amandinea

adjuncta Th.Fr., Buellia = Amandinea adjuncta (Th.
Fr.) Hafellner

adjuncta (Th.Fr.) Arnold, Karschia = Amandinea
adjuncta (Th.Fr.) Hafellner

admissa (Nyl.) Kullh., Acarospora

admissa Nyl., Lecanora = Acarospora admissa (Nyl.)
Kullh.

admixta Th.Fr., Biatora = Lecanora cadubriae (A.
Massal.) Hedl.

admixta Kullh., Lecidea = Biatora ocelliformis (Nyl.)
Arnold

adnata Coppins, Micarea

adscendens (Anzi) Müll.Arg., Endocarpon

adscendens H.Olivier, Physcia

adpersum Pers., Calicium

adsurgens Vain., Endocarpon

**advenulum (Leight.) Hafellner & Poelt,
Rhizocarpon**

aegrefaciens Printzen, Biatora

aenea (Fr.) Nyl., Lecidea = Miriquidica garovaglii
(Schaer.) Hertel & Rambold

aenea (Wallr.) Zahlbr., Porina = Pseudosagedia
aenea (Wallr.) Hafellner & Kalb.

aenea (Wallr.) Hafellner & Kalb., Pseudosagedia

aeneofusca (Flörke ex Flot.) Coppins & P.James,
Trapeliopsis = Trapeliopsis gelatinosa (Flörke)
Coppins & P.James

aeneovinosum (Anzi) Arnold, Thelidium =
Thelidium methorium (Nyl.) Hellb.

aeneum (Wallr.) R.C.Harris, Trichothelium =
Pseudosagedia aenea (Wallr.) Hafellner & Kalb.

aequatula H.Magn., Acarospora = Acarospora
nitrophila H.Magn.

**aeruginea (H.G.Falk) Knoph & Leuckert,
Lecidella**

aeruginosa R.Sant. & Tønsberg, Arthrorhaphis

aeruginosa (Turner ex Sm.) A.L.Sm., Chaenotheca =
Chaenotheca trichialis (Ach.) Th.Fr.

aeruginosa auct., Chaenotheca = Chaenotheca
stemonea (Ach.) Müll.Arg.

aeruginosa Holien & Ihlen, Dactylospora =
Sclerococcum aeruginosum (Holien & Ihlen) Ertz &
Diederich

aeruginosa (Scop.) Trevis., Icmadophila =
Icmadophila ericetorum (L.) Zahlbr.

aeruginosa Borrer, Lecidea = Trapeliopsis flexuosa
(Fr.) Coppins & P.James

aeruginosa auct., Lepraria = Lepraria incana (L.)
Ach.

aeruginosa (Weiss) Sm., Lepraria

**aeruginosum (Holien & Ihlen) Ertz & Diederich,
Sclerococcum**

**aestivalis (Ohlert) Tscherm.-Woess & Poelt,
Vezdaea**

aethalea (Ach.) Th.Fr., Buellia

aethaleoides (Nyl.) H.Olivier, Buellia = Buellia
aethalea (Ach.) Th.Fr.

aethiobola Wahlenb., Verrucaria

aethiobola var. cataleptoides (Nyl.) Vain., Verrucaria
= Verrucaria aethiobola Wahlenb.

aethiobola var. internigrescens (Nyl.) Vain.,
Verrucaria = Verrucaria internigrescens (Nyl.)
Erichsen

aethiobola var. leightonii (Hepp) Vain., Verrucaria =
Verrucaria margacea (Wahlenb.) Wahlenb.

aethiobola var. margacea (Wahlenb.) Vain.,
Verrucaria = Verrucaria margacea (Wahlenb.)
Wahlenb.

aethioboloides Zschacke, Thelidium

aethioboloides (Nyl.) Vain., Thelidium = Thelidium
minutulum Körb.

affinis (Stizenb.) Vain., Bacidia = Toniniopsis
separabilis (Nyl.) Gerasimova & A.Beck

affinis (Schaer.) T.Schauer, Mycoblastus

affinis (Grev.) Sacc., Paranectria

afflata (Lagger) R.H.Petersen, Multiclavula

afrorevoluta (Krog & Swinscow) Krog & Swinscow, Hypotrachyna

afrorevoluta Krog & Swinscow, Parmelia = Hypotrachyna afrorevoluta (Krog & Swinscow) Krog & Swinscow

afrorevoluta (Krog & Swinscow) Elix & Hale, Parmelinopsis = Hypotrachyna afrorevoluta (Krog & Swinscow) Krog & Swinscow

agardhiana (A.Massal.) Clauzade & Cl.Roux, Caloplaca = Pyrenodesmia alociza (A.Massal.) Arnold

aglaea (Ach.) Flot., Phlyctis

aggregantula (Müll.Arg.) Diederich & Triebel, Carbonea

aggregantula Müll.Arg., Lecidea = Carbonea aggregantula (Müll.Arg.) Diederich & Triebel

aggregantula (Müll.Arg.) Rehm, Nesolecthia = Carbonea aggregantula (Müll.Arg.) Diederich & Triebel

aggregata Vain., Arthonia

aggregata (Flot.) V.Wirth & Vězda, Fuscidea = Fuscidea austera (Nyl.) P.James

aggregata (Flot.) H.Magn, Lecidea = Fuscidea austera (Nyl.) P.James

aggregata Hedl., Micarea = Bilimbia lobulata (Sommerf.) Hafellner & Coppins

aggregata (Bagl. & Carestia) Rehm, Scutula = Scutula epiblastematica (Wallr.) Rehm

aggregatilis (Grumann) V.Wirth & Vězda, Fuscidea = Fuscidea austera (Nyl.) P.James

aggregatilis Grumann, Lecidea = Fuscidea austera (Nyl.) P.James

aggregatum auct., Collema = Gabura fasciculare (L.) P.M.Jørg.

aggregatum (Mudd) D.Hawksw., Stigmidium

aggregatum auct., Stigmidium = Stigmidium eucline (Nyl.) Vězda

aglaea (Sommerf.) Hafellner, Calvitimela

aglaea Sommerf., Lecidea = Calvitimela aglaea (Sommerf.) Hafellner

aglaea (Sommerf.) Hertel & Rambold, Tephromela = Calvitimela aglaea (Sommerf.) Hafellner

aglaeiformis H.Magn., Lecidea = Miriquidica paanaensis (Räsänen & Laurila) Andreev

agnata (Nyl.) H.Krist., Cetraria = Melanelia agnata (Nyl.) A.Thell

agnata (Nyl.) A.Thell, Melanelia

agraria Th.Fr., Polyblastia

ahlesiana (Körb.) Zahlbr., Porina

ahlesii (Körb.) Fryday et al., Bryobilimbia

ahlesii (Körb.) Nyl., Lecidea = Bryobilimbia ahlesii (Körb.) Fryday et al.

ahlesii (Körb.), Mycobilimbia = Bryobilimbia ahlesii (Körb.) Fryday et al.

ahlneri (P.M.Jørg.) P.M.Jørg., Fuscopannaria

ahlneri Hensen, Lichinodium

ahlneri Tibell, Microcalicium

ahlneri P.M.Jørg., Pannaria = Fuscopannaria ahlneri (P.M.Jørg.) P.M.Jørg.

ahtii Söchting, Caloplaca

ahtii Pykälä et al., Verrucaria

aipolia (Ehrh. ex Humb.) Fűrnr., Physcia

aipolia (Ehrh. ex Humb.) Fűrnr. var. alnophila (Vain.) Lyngé, Physcia = Physcia alnophila (Vain.) Loht. et al.

aipolia var. subincisa (Th.Fr.) Lyngé., Physcia = Physcia magnussonii Frey

aipolia f. verruculosa Räsänen, Physcia = Physcia aipolia (Ehrh. ex Humb.) Fűrnr.

aipospila (Wahlenb.) Th.Fr., Lecania

aitema (Ach.) Hepp, Lecanora

alabastrites (Nyl.) Coppins, Micarea

alaskana (Verseggy) Kukwa, Ochrolechia

alaskensis (Wetmore) Arup et al., Calogaya

alaskensis Wetmore, Caloplaca = Calogaya
alaskensis (Wetmore) Arup et al.

alba (Schrad.) B.de Lesd., Acrocordia = Acrocordia
gemmata (Ach.) A.Massal.

alba (Schrad.) Zahlbr., Arthopyrenia = Acrocordia
gemmata (Ach.) A.Massal.

alba Coppins & Vězda, Catillaria = Biatora
veteranorum Coppins & Sérus.

albana (A.Massal) A.Massal, Rinodina

albella (Pers.) Ach., Lecanora

albellula (Nyl.) Th.Fr., Lecanora

albellula (Nyl.) Th.Fr. var. albellula, Lecanora
albellula (Nyl.) Th.Fr. var. macroconidiata M.
Brand & van den Boom, Lecanora

albellula Nyl., Lecidea = Lecanora albellula (Nyl.)
Th.Fr.

albescens (Stizenb.) Bausch, Bacidia = Bacidina
phacodes (Körb.) Vězda

albescens (Hoffm.) Branth & Rostr., Lecanora =
Myriolecis albescens (Hoffm.) Śliwa et al.

albescens (Huds.) Hafellner, Lepra

albescens Huds., Lichen = Lepra albescens (Huds.)
Hafellner

albescens (Hoffm.) Śliwa et al., Myriolecis

albescens (Huds.) M.Choisy & Werner, Pertusaria =
Lepra albescens (Huds.) Hafellner

albescens var. corallina (Zahlbr.) J.R.Laundon,
Pertusaria = Lepra albescens (Huds.) Hafellner

albescens Hoffm., Psora = Myriolecis albescens
(Hoffm.) Śliwa et al.

albescens Gilenstam et al., Schizoxylon

albida Räsänen, Alectoria = Alectoria sarmentosa
(Ach.) Ach. subsp. sarmentosa

albida (Körb.) Zahlbr., Chaenotheca = Chaenotheca
cinerea (Pers.) Tibell

albida Arnold, Polyblastia

albida (Räsänen) Räsänen, Usnea = Usnea
subfloridana Stirt.

albidocarnea var. alborubella (Nyl.) Zahlbr., Bacidia
= Lecania cuprea (A.Massal.) van den Boom &
Coppins

albidocinerella Vain., Lecidea = Lecidella effugiens
(Nilson) Knoph & Hertel

albidocinerella (Vain.) Poelt & Vězda, Lecidella =
Lecidella effugiens (Nilson) Knoph & Hertel

albidolivens (Nyl.) Zahlbr., Bacidia = Micarea
peliocarpa (Anzi) Coppins & R.Sant.

albidolivens (Nyl.) Blomb. & Forssell, Bilimbia =
Micarea peliocarpa (Anzi) Coppins & R.Sant.

albidolivens Nyl., Lecidea = Micarea peliocarpa
(Anzi) Coppins & R.Sant.

albidula Willey in Tuck., Biatora

albidula (Willey in Tuck.) R.C.Harris, Myrionora =
Biatora albidula Willey in Tuck.

albilabra auct., Lecidea = Psora vallesiaca (Schaer.)
Timdal

albilabra (Dufour in Fr.) Körb., Lecidea =
Thalloidima albilabrum (Dufour) Flagey

albilabra auct., Psora = Psora vallesiaca (Schaer.)
Timdal

albilabra (Dufour) Körb., Psora = Thalloidima
albilabrum (Dufour) Flagey

albilabra (Dufour) H.Olivier, Toninia = Thalloidima
albilabrum (Dufour) Flagey

albilabrum (Dufour) Flagey, Thalloidima

albinea in Magnusson 1957, Physcia = Physcia
magnussonii Frey

albissima (Ach.) Norman, Leptorhaphis =
Leptorhaphis epidermidis (Ach.) Th.Fr.

albissimus sensu Räsänen, Diploschistes =
Diploschistes gypsum (Ach.) Zahlbr.

alboatra (Hoffm.) Th.Fr., Buellia = Diplotomma
alboatrum (Hoffm.) Flot.

alboatra var. venusta (Körb.) Th.Fr., Buellia =
Diplotomma venustum Körb.

alboatra var. zabotica (Körb.) Th.Fr., Buellia =
Diplotomma pharcidium (Ach.) Choisy

alboatrum Flörke, Calicium = Chaenothecopsis
pusilla (Ach.) A.F.W.Schmidt

alboatrum (Hoffm.) Flot., Diploforma

albocaerulescens (Wulfen) Hertel, Huilia = Porpidia
albocaerulescens (Wulfen) Hertel & Knoph

albocaerulescens (Wulfen) Ach., Lecidea = Porpidia
albocaerulescens (Wulfen) Hertel & Knoph

albocaerulescens var. soralifera Vain., Lecidea =
Porpidia rugosa (Körb.) Coppins & Fryday

albocaerulescens (Wulfen) Hertel & Knoph, Porpidia

albocevina, Hypocenomyce = Carbonicola
anthracophila (Nyl.) Bendiksby & Tindal

albociliatum sensu Vain., Calicium =
Chaenothecopsis vainioana (Nádv.) Tibell

albociliatum (Desm.) M.Choisy, Leptochidium

albociliatum var. eciliatum Degel., Leptochidium =
Leptochidium crenatum (Nyl.) P.M.Jørg.

albociliatum Desm., Leptogium = Leptochidium
albociliatum (Desm.) M.Choisy

albociliatum (Desm.) Zahlbr., Polychidium =
Leptochidium albociliatum (Desm.) M.Choisy

alboflavescens (Wulfen) Zahlbr., Ochrolechia

albofuscescens (Nyl.) Kullh., Biatora = Lecidea
albofuscescens Nyl.

albofuscescens Nyl., Lecidea

albohyalina (Nyl.) Bagl. & Carestia, Biatora

albohyalina (Nyl.) Th.Fr., Lecidea = Biatora
albohyalina (Nyl.) Bagl. & Carestia

albolutescens auct., Caloplaca = Caloplaca soralifera
Vondrák & Hrouzek

albolutescens (Nyl.) H.Olivier, Caloplaca

alboarginata (Nyl.) Cromb., Lecanora =
Protoparmeliopsis muralis (Schreb.) M.Choisy

albonigra Brodo & Ahti, Cladonia

albonigrum H.Magn., Lempholemma =
Lempholemma cladodes (Tuck.) Zahlbr.

albopruinosa (Arnold) Th.Fr., Blastenia =
Pyrenodesmia alociza (A.Massal.) Arnold

albopruinosa (Arnold) H.Olivier, Caloplaca =
Pyrenodesmia alociza (A.Massal.) Arnold

alboradiata (H.Magn.) Oxner, Aspicilia

alboradiata H.Magn., Lecanora = Aspicilia
alboradiata (H.Magn.) Oxner

alborufidula (Hedl.) Zahlbr., Bacidia = Biatora
alborufidula (Hedl.) S.Ekman & Printzen

alborufidula (Hedl.) S.Ekman & Printzen, Biatora

alborufidula Hedl., Lecidea = Biatora alborufidula
(Hedl.) S.Ekman & Printzen

albosuffusa Th.Fr., Lecidea = Farnoldia jurana
(Schaer.) Hertel

albuginosa Nyl., Lecidea = Porpidia rugosa (Körb.)
Coppins & Fryday

alcarum Poelt, Caloplaca

alcicornaria (Linds.) Vouaux, Dendrophoma =
Lichenosticta alcicornaria (Linds.) D.Hawksw.

alcicornaria (Linds.) D.Hawksw., Lichenosticta

alcicornis (Lightf.) Fr., Cladonia = Cladonia foliacea
(Huds.) Willd.

alcicornis var. damicornis (Ach.) Th.Fr., Cladonia =
Cladonia foliacea (Huds.) Willd.

aleurites (Ach.) Th.Fr., Cetraria = Imshaugia
aleurites (Ach.) S.L.F.Mey.

aleurites (Ach.) S.L.F.Mey., Imshaugia

aleurites (Ach.) Nyl., Parmeliopsis = Imshaugia
aleurites (Ach.) S.L.F.Mey.

aleuritica (Nyl.) Hale, Arctoparmelia =
Arctoparmelia centrifuga (L.) Hale

aleuritica Nyl., Parmelia = Arctoparmelia centrifuga
(L.) Hale

alexandri R.Sant., Aspicilia = Aspilea myrinii (Fr.)
Hafellner

algoviae H.Magn., Sarcogyne

aliena (Zahlbr.) Oxner, Aspicilia

aliena Zahlbr., Lecanora = Aspicilia aliena (Zahlbr.)
Oxner

aliphatica Malíček et al., Japewia

allobata (Stizenb.) P.James, Agonimia

allobata (Stizenb.) Servit, Amphoroblastia =
Agonimia allobata (Stizenb.) P.James

allobata (Stizenb.) Zsch., Polyblastia = Agonimia
allobata (Stizenb.) P.James

allophana Nyl., Lecanora

allophana f. soreciata Nyl. ex Vain., Lecanora =
Lecanora allophana Nyl.

almquistii Vain., Arthonia

almquistii H.Magn., Biatorella = Strangospora
torvula (Nyl.) R.A.Anderson

almquistiorum S.Ekman, Fellhaneropsis

alnicola (Bourdodot & Galzin) Jülich, Athelia = Athelia
epiphylla Pers.

alnicola auct., Gyalideopsis = Gyalideopsis piceicola
(Nyl.) Vězda & Poelt

alnicola Noble & Vězda, Gyalideopsis

alnophila (Vain.) Loht. et al., Physcia

alociza (A.Massal.) Mig., Caloplaca = Pyrenodesmia
alociza (A.Massal.) Arnold

alociza (A.Massal.) Arnold, Pyrenodesmia

alpestris (Zopf) Theiss. & Syd., Adelococcus

alpestris (Ach.) Ozenda & Clauzade, Caloplaca =
Pyrenodesmia variabilis (Pers.) A.Massal.

alpestris alpestris (L.) Nyl., Cladonia = Cladonia
stellaris (Opiz) Pouzar & Vězda

alpestris (L.) Rabenh., Cladonia = Cladonia stellaris
(Opiz) Pouzar & Vězda

alpestris Sommerf., Lecidea = Protomicarea alpestris
(Sommerf.) McCune

alpestris (Sommerf.) McCune, Protomicarea

alophlaca (Wahlenb.) Poelt & Leuckert, Aspicilia =
Lobothallia alophlaca (Wahlenb.) Hafellner

alophlaca (Wahlenb.) Ach., Lecanora = Lobothallia
alophlaca (Wahlenb.) Hafellner

alophlaca (Wahlenb.) Hafellner, Lobothallia

alpicola (Th.Fr.) Essl., Allantoparmelia

alpicola Anzi, Buellia = Rhizocarpon alpicola (Anzi)
Rabenh.

alpicola (Flot.) Vain., Cladonia = Cladonia
macrophylla (Schaer.) Stenh.

alpicola (Th.Fr.) Hav., Hypogymnia =
Allantoparmelia alpicola (Th.Fr.) Essl.

alpicola Th.Fr., Parmelia = Allantoparmelia alpicola
(Th.Fr.) Essl.

alpicola (Anzi) Rabenh., Rhizocarpon

alpicola Zschacke, Verrucaria

alpigena Breuss, Verrucaria

alpina (Schaer.) R.Sant., Arthrorhaphis

alpina (Sommerf.) Arnold, Aspicilia = Bellemerea

alpina (Sommerf.) Clauzade & Cl.Roux

alpina subsp. fraudans Räsänen, Aspicilia =
Bellemerea subsorediza (Lynge) R.Sant.

alpina Savić & Tibell, Atla

alpina (Schaer.) Vain., Bacidia = Arthrorhaphis

alpina (Schaer.) R.Sant.

**alpina (Sommerf.) Clauzade & Cl.Roux,
Bellemerea**

alpina Ihlen & Wedin, Cercidospora

alpina (Asahina) Yoshim., Cladonia

alpina Sommerf., Lecanora = Bellemerea alpina
(Sommerf.) Clauzade & Cl.Roux

alpina (B.de Lesd.) Tretiach & Baruffo, Lepraria

alpina (Britzelm.) Redhead et al., Lichenomphalia

alpina (Britzelm.) Bresinsky & Stangl, Omphalina =
Lichenomphalia alpina (Britzelm.) Redhead et al.

alpina Hepp ex Ahles, Pertusaria

alpina Körb., Schadonia

alpinum Th.Fr. pro max. parte, Collema =
Lempholemma isidiodes (Nyl. ex Arnold) H.Magn.

**alpinum (R.Sant et al.) Ertz & Diederich,
Lichenostigma**

alpinum Laurer, Stereocaulon

alpinum var. erectum Frey, Stereocaulon =
Stereocaulon alpinum Laurer

alpinum var. gracilentum (Th.Fr.) H.Magn.,
Stereocaulon = Stereocaulon alpinum Laurer

alpinus (Fr.) Th.Fr. ex Hellb., Mycoblastus

alpinus R.Sant. et al., Phaeosporobolus =
Lichenostigma alpinum (R.Sant et al.) Ertz &
Diederich

alpivaga Norman, Arthopyrenia = Lichenochora
constrictella (Müll.Arg.) Hafellner

alpivaga (Th.Fr.) M.Mayrhofer, Halecania

alpivaga Th.Fr., Lecania = Halecania alpivaga (Th.
Fr.) M.Mayrhofer

altaica (Gyeln.) Räsänen, Alectoria = Bryoria
nadvornikiana (Gyeln.) Brodo & D.Hawksw.

altensis Th.Fr., Lecidea = Lecidella altensis (Th.Fr.)
Hertel

altensis (Th.Fr.) Hertel, Lecidella

altissima H.Magn., Lecidea

alumnula Nyl., Lecidea = Cecidonia xenophana
(Körb.) Triebel & Rambold

alutacea (Anzi) Jatta, Toninia = Thalloidima
alutaceum Anzi

alutacea Wallr., Verrucaria

alutaceum Anzi, Thalloidima

alvarense Breuss, Catapyrenium = Clavascidium
alvarense (Breuss) M.Prieto

alvarense (Breuss) M.Prieto, Clavascidium

alvarensis (Wahlenb.) Vain., Cetraria = Vulpicida
tubulosus (Schaer.) J.-E.Mattsson & M.J.Lai

amabilis Tibell, Coniocybe = Sclerophora amabilis
(Tibell) Tibell

amabilis (Tibell) Tibell, Sclerophora

amara (Ach.) Hafellner, Lepra

amara (Ach.) Nyl., Pertusaria = Lepra amara (Ach.)
Hafellner

amara f. carpinii Erichsen, Pertusaria = Lepra amara
(Ach.) Hafellner

amaurocraea (Flörke) Schaer., Cladonia

amaurospoda Anzi, Biatora = Myochroidea
porphyrospoda (Anzi) Printzen et al.

amaurospoda (Anzi) Vain., Lecidea = Frutidella
furfuracea (Anzi) M.Westb. & M.Svensson

ambigua (Ach.) Malme, Buellia = Diplotomma
alboatrum (Hoffm.) Flot.

ambigua (Wulfen) S.L.F.Meyer, Foraminella =
Parmeliopsis ambigua (Wulfen) Nyl.

ambigua (Wulfen) Nyl., Parmeliopsis

ambigua Erichsen, Verrucaria = Verrucaria erichsenii
Zschacke

ambiguum (Ach.) Flagey, Diplotomma =
Diplotomma alboatrum (Hoffm.) Flot.

ameibospora (Hedl.) Zahlbr., Catillaria

ameibospora Hedl., Lecidea = Catillaria ameibospora
(Hedl.) Zahlbr.

americana (Motyka) Holien, Bryoria

americana (Spreng.) Hale, Tuckermannopsis =
Tuckermannopsis ciliaris (Ach.) Gyeln.

ammiospila (Wahlenb.) Arup et al., Blastenia

ammiospila (Wahlenb.) H.Olivier, Caloplaca =
Blastenia ammiospila (Wahlenb.) Arup et al.

amota Arnold, Polyblastia = Polyblastia albida
Arnold

amphibia (Clemente) Cl.Roux, Hydropunctaria

amphibia Clemente, Verrucaria = Hydropunctaria
amphibia (Clemente) Cl.Roux

amphibium (Fr.) Th.Fr., Rhizocarpon

amphibola auct., Acarospora = Myriospora rhagadiza
(Nyl.) K.Knudsen & L.Arcadia

amphibola Wedd., Acarospora = Myriospora
smaragdula (Wahlenb. ex Ach.) Nägeli ex Uloth

amphibola var. subgriseola Vain. ex Räsänen,
Aspicilia = Aspicilia aquatica (Fr.) Körb.

amphibola (Ach.) Vain., Lecanora = Circinaria
caesiocinerea (Nyl. ex Malbr.) A.Nordin et al.

amphibola sensu Vain., Lecanora = Aspicilia
aquatica (Fr.) Körb.

amphiboliticum Räsänen, Rhizocarpon =
Rhizocarpon geographicum (L.) DC. subsp.
diabasicum (Räsänen) Poelt & Vězda

amphibolus Ach., Lichen = Lecanactis abietina
(Ach.) Körb.

amphineum Ach. ex. Nyl., Leptogium = Leptogium
byssinum (Hoffm.) Zwackh ex Nyl.

amphoteroides Vain., Lecidea

amplissima (Scop.) Forssell, Lobaria

amplissima (Scop.) De Not, Ricasolia = Lobaria
amplissima (Scop.) Forssell

amygdalariae Triebel, Dactylospora = Sclerococcum
amygdalariae (Triebel) Ertz & Diederich

**amygdalariae (Triebel) Ertz & Diederich,
Sclerococcum**

amylacea (Pers.) Arnold, Lecanactis = Lecanographa
amylacea (Ehrh. ex Pers.) Egea & Torrente

**amylacea (Ehrh. ex Pers.) Egea & Torrente,
Lecanographa**

amylacea Chevall., Opegrapha = Lecanographa
amylacea (Ehrh. ex Pers.) Egea & Torrente

amylacea Hepp, Verrucaria

amylaceum auct., Thelidium = Thelidium decipiens
(Nyl.) Kremp.

amylocaule Lettau, Calicium = Calicium lenticulare
Ach.

amylospora Almq., Arthonia

analepta (Ach.) A.Massal., Arthopyrenia

analepta auct., Arthopyrenia = Naetrocymbe
punctiformis (Pers.) R.C.Harris

anapera Vain., Lecidea = Rhizocarpon anaperum
(Vain.) Vain.

anaperum (Vain.) Vain., Rhizocarpon

anaptychia Lindau, Coniothecium = Monodictys
anaptychia (Lindau) D.Hawksw.

anaptychia (Lindau) D.Hawksw., Monodictys

anaptychia J.C.Zamora & Diederich, Tremella

anastomosans P.James & Vězda, Gyalideopsis =
Jamesiella anastomosans (P.James & Vězda)
Lücking et al.

**anastomosans (P.James & Vězda) Lücking et al.,
Jamesiella**

anceps Kremp., Verrucaria

andesiatica Servít, Verrucaria

andreaicola Fryday & Coppins, Ameliella

**andrejevii (Oxner) Kärnefelt & A.Thell,
Arctocetraria**

andrejevii Oxner, Cetraria = Arctocetraria andrejevii
(Oxner) Kärnefelt & A.Thell

andrejevii (Oxner) Divakar et al., Nephromopsis =
Arctocetraria andrejevii (Oxner) Kärnefelt & A.Thell

andrewii B.de Lesd., Lecanora = Myriolecis andrewii
(B.de Lesd.) Śliwa et al.

andrewii (B.de Lesd.) Śliwa et al., Myriolecis

androgyna (Hoffm.) Arnold, Ochrolechia

androgyna var. pergranulosa Räsänen, Ochrolechia =
Ochrolechia androgyna (Hoffm.) Arnold

angardiana Øvstedal, Lepraria = Lepraria alpina (B.
de Lesd.) Tretiach & Baruffo

angardianum (Øvstedal) J.R.Laundon, Leproloma =
Lepraria alpina (B.de Lesd.) Tretiach & Baruffo

angermannica Degel., Arthopyrenia =
Collemopsidium angermannicum (Degel.) A.Nordin

**angermannicum (Degel.) A.Nordin,
Collemopsidium**

anglica Nyl., Sphinctrina

angulosa (Schreb.) Ach., Lecanora = Lecanora
carpinea (L.) Vain.

angustiphyllo (Gyeln.) Hale, Xanthoparmelia

angustissima (Anzi) Vain., Ramalina = Ramalina
subfarinacea (Nyl. ex Cromb.) Nyl.

angustissima f. corymbosa Räsänen, Ramalina =
Ramalina subfarinacea (Nyl. ex Cromb.) Nyl.

anisomerum Hellb., Thelidium

"anisomoron", Thelidium = Thelidium anisomerum
Hellb.

anisospora Lowen, Nectriella = Trichonectria
anisospora (Lowen) van den Boom & Diederich

anisospora (Lowen) Lowen, Pronectria =
Trichonectria anisospora (Lowen) van den Boom &
Diederich

**anisospora (Lowen) van den Boom & Diederich,
Trichonectria**

annexa (Arnold) Vězda, Absconditella

annexa (Arnold) H.Olivier, Gyalecta = Absconditella

annexa (Arnold) Vězda

annularis H.Magn., Ionaspis = Hymenelia

heteromorpha (Kremp.) Lutzoni

annulata Laurila, Didymella = Arthopyrenia analepta (Ach.) A.Massal.

anomaea Ahti & P.James, Cladonia = Cladonia ramulosa (With.) J.R.Laundon

anomala H.Magn., Acarospora

anomala f. albohyalina Nyl., Lecidea = Biatora

albohyalina (Nyl.) Bagl. & Carestia

anomala subsp. glomerella Nyl., Lecidea = Micarea elachista (Körb.) Coppins & R.Sant.

anomala f. misella Nyl., Lecidea = Micarea misella (Nyl.) Hedl.

anomala f. pyrenothizans Nyl., Lecidea = Micarea denigrata (Fr.) Hedl.

anomalooides (A.Massal.) Hertel & H.Kilias, Lecidella

anombrophila Coppins & P.James, Arthonia = Reichlingia anombrophila (Coppins & P.James) Frisch

anombrophila (Coppins & P.James) Frisch, Reichlingia

anomea Nyl., Opegrapha

anopta Nyl., Lecanora

antecellens (Nyl.) Arnold, Arthopyrenia =

Mycoporum antecellens (Nyl.) R.C.Harris

antecellens (Nyl.) R.C.Harris, Mycoporum

anterior (Nyl.) Malme, Catillaria = Micarea anterior (Nyl.) Hedl.

anterior Nyl., Lecidea = Micarea anterior (Nyl.) Hedl.

anterior (Nyl.) Hedl., Micarea

anthodia sensu Lundell, Omphalina =

Lichenomphalia grisella (P.Karst.) Redhead et al.

anthracina sensu Th.Fr., Gyrophora = Umbilicaria rigida (Du Rietz) Frey

anthracina (Wulfen) Körb., Gyrophora = Umbilicaria polyphylla (L.) Baumg.

anthracina (Anzi) Arnold, Microthelia = Lichenothelia scopularia (Nyl.) D.Hawksw.

anthracophila (Nyl.) Hafellner, Biatora = Carbonicola anthracophila (Nyl.) Bendiksby & Timdal

anthracophila (Nyl.) Bendiksby & Timdal, Carbonicola

anthracophila (Nyl.) P.James & Gotth. Schneid., Hypocenomyce = Carbonicola anthracophila (Nyl.) Bendiksby & Timdal

anthracophila Nyl., Lecidea = Carbonicola

anthracophila (Nyl.) Bendiksby & Timdal

antilogia Stirt., Lecidea = Lecidea globulispora Nyl.

antilogia var. infralapponica Vain., Lecidea = Lecidea globulispora Nyl.

antiqua J.R.Laundon, Lecanora = Myriolecis antiqua (J.R.Laundon) Śliwa et al.

antiqua (J.R.Laundon) Śliwa et al., Myriolecis

antiquitatis (L.) Ach., Lepraria

antonellianum Bagl. & Carestia, Thelidium

antricola (Hulting) Aptroot, Aquacidia

antricola Hulting, Bacidia = Aquacidia antricola (Hulting) Aptroot

anziana (Lyngé) Poelt, Arthrorhaphis = Arthrorhaphis vacillans Th.Fr. & Almq. ex Th.Fr.

anziana Lyngé, Bacidia = Arthrorhaphis vacillans Th.Fr. & Almq. ex Th.Fr.

anziana Garov., Verrucaria

anzianiooides H.Magn., Verrucaria = Verrucaria arctica Lyngé

apatela (A.Massal.) Trevis., Verrucaria

apatetica (A.Massal.) Th.Fr., Arthonia

aphana (Nyl.) Coppins, Catillaria

aphanes J.Lahm, Thelidium

aphthosa (L.) Ach., Peltidea = Peltigera aphthosa (L.) Willd.

aphthosa (L.) Willd., Peltigera

aphthosa f. britannica (Gyeln.) Zahlbr., Peltigera =
Peltigera britannica (Gyeln.) Holt.-Hartw. &
Tønsberg

aphthosae Alstrup & D.Hawksw., Graphium

apocalypta (Rehm ex Arnold) Winter, Leptosphaeria =
Lasiosphaeriopsis stereocaulicola (Linds.) O.E.
Erikss. & R.Sant.

apocalypta Rehm ex Arnold, Xenosphaeria =
Lasiosphaeriopsis stereocaulicola (Linds.) O.E.
Erikss. & R.Sant.

apochroella Nyl., Lecidea

apochroella var. botryoides Nyl., Lecidea = Micarea
botryoides (Nyl.) Coppins

apochrooides Vain., Lecanora

apolepta (Ach.) H.M.M.Hansen & M.Lund, Cladonia =
Cladonia coniocraea (Flörke) Spreng.

apomelaena (A.Massal.) Hepp, Verrucaria

**aporea (Nyl.) D.Hawksw. & O.E.Erikss.,
Hymenobia**

aporea (Nyl.) Triebel, Hymenobiella = Hymenobia
aporea (Nyl.) D.Hawksw. & O.E.Erikss.

aporea Nyl., Psora = Hymenobia aporea (Nyl.) D.
Hawksw. & O.E.Erikss.

apotheciorum (A.Massal.) Almq., Arthonia

apotheciorum subsp. caerulescens Almq., Arthonia =
Arthonia caerulescens (Almq.) R.Sant.

applanata Hepp ex Zschacke, Verrucaria =
Verrucaria margacea (Wahlenb.) Wahlenb.

applanatum (Fr.) Th.Fr., Rhizocarpon = Rhizocarpon
hochstetteri (Körb.) Vain.

applanatum H.Magn., Thelocarpon = Thelocarpon
lichenicola (Fuckel) Poelt & Hafellner.

approximata (Lyngé) Søchting et al., Amundsenia

approximata (Lyngé) H.Magn., Caloplaca =
Amundsenia approximata (Lyngé) Søchting et al.

aprina (Nyl.) Nyl., Gyrophora = Umbilicaria aprina
Nyl.

aprina Nyl., Umbilicaria

aquale (Arnold) P.M.Jørg., Leptogium = Scytinium
aquale (Arnold) Otálora et al.

aquale (Arnold) Otálora et al., Scytinium

aquatica (Fr.) Körb., Aspicilia

aquatica (Stein) Riedl, Belonia = Sagediopsis
aquatica (Stein) Triebel

aquatica Stein, Gongylia = Sagediopsis aquatica
(Stein) Triebel

aquatica (Körb.) Hepp, Lecanora = Aspicilia aquatica
(Fr.) Körb.

aquatica (Stein) Triebel, Sagediopsis

aquaticum (Weis) Zahlbr., Dermatocarpon =
Dermatocarpon luridum (With.) J.R.Laundon

aquatilis Mudd, Verrucaria

aquila (Ach.) A.Massal., Anaptychia = Anaptychia
runcinata (With.) J.R.Laundon

aquila (Ach.) Nyl., Physcia = Anaptychia runcinata
(With.) J.R.Laundon

aquinella Nyl., Verrucaria = Verrucaria aethiobola
Wahlenb.

arachnoidea (Berk.) Jülich, Athelia

aractina (Fr.) Häyren, Caloplaca

aractina (Wahlenb.) Orange, Hydropunctaria

aractina Wahlenb., Verrucaria = Hydropunctaria
aractina (Wahlenb.) Orange

aragonii Otálora, Leptogium = Scytinium aragonii
(Otálora) Otálora et al.

aragonii (Otálora) Otálora et al., Scytinium

araneosum (Rehm) Vouaux, Discothecium =
Sphaerellothecium araneosum (Rehm ex Arnold)
Zopf

**araneosum (Rehm ex Arnold) Zopf,
Sphaerellothecium**

araneosum (Rehm ex Arnold) Zopf var. araneosum,
Sphaerellothecium = Sphaerellothecium araneosum
(Rehm ex Arnold) Zopf

araneosum var. cladoniae Alstrup & Zhurb.,
Sphaerellothecium = Sphaerellothecium cladoniae
(Alstrup & Zhurb.) Hafellner

araneosus (Rehm) H.Olivier, Endococcus =
Sphaerellothecium araneosum (Rehm ex Arnold)
Zopf

arbogense Servít, Dermatocarpon

arbogense (Servít), Placopyrenium = Dermatocarpon
arbogense Servít

arborea Coppins & Tønsberg, Buellia

arborea (Kreyer) Almb., Ochrolechia

arborea (Kreyer) Zahlbr., Pertusaria = Ochrolechia
arborea (Kreyer) Almb.

arboricola Coppins & Tønsberg, Fuscidea

arbuscula (Wallr.) Hale & W.L.Culb., Cladina =
Cladonia arbuscula (Wallr.) Flot.

arbuscula (Wallr.) Flot., Cladonia

arbuscula auct. plur., Cladonia = Cladonia arbuscula
(Wallr.) Flot.

arbuscula (Wallr.) Flot. subsp. arbuscula, Cladonia =
Cladonia arbuscula (Wallr.) Flot.

arbuscula (Wallr.) Flot. subsp. mitis (Sandst.) Ruoss,
Cladonia = Cladonia mitis Sandst.

arbuscula (Wallr.) Flot. subsp. squarrosa (Wallr.)
Ruoss, Cladonia = Cladonia arbuscula (Wallr.) Flot.

arceutina (Ach.) Arnold, Bacidia

archaea (Ach.) Arnold, Rinodina

archaea f. cinerascens H.Magn., Rinodina = Rinodina
trevisanii (Hepp) Körb.

arcis (Poelt & Vězda) Arup, Caloplaca = Flavoplaca
arcis (Poelt & Vězda) Arup et al.

arcis (Poelt & Vězda) Arup et al., Flavoplaca

arctica (Lyngé) Oxner, Aspicilia

arctica H.Magn., Caloplaca = Parvoplaca tirolensis
(Zahlbr.) Arup et al.

arctica (Körb.) R.Sant., Candelariella

arctica Lyngé, Crocynia = Lepraria vouauxii (Hue)
R.C.Harris

arctica Malme, Gyalecta = Gyalidea scutellaris
(Bagl. & Carestia) Lettau

arctica Ach., Gyrophora = Umbilicaria arctica (Ach.)
Nyl.

arctica (Lyngé) Lutzoni, Hymenelia

arctica Lyngé, Ionaspis = Hymenelia arctica (Lyngé)
Lutzoni

arctica Lyngé, Lecanora = Aspicilia arctica (Lyngé)
Oxner

arctica Sommerf., Lecidea = Frutidella caesioatra
(Schaer.) Kalb

arctica (Lyngé) Wetmore, Lepraria = Lepraria
vouauxii (Hue) R.C.Harris

arctica (L.) Vain., Opisteria = Nephroma arcticum
(L.) Torss.

arctica Horáková & Alstrup, Phaeospora

arctica H.Magn., Rinodina = Rinodina
olivaceobrunnea C.W.Dodge & G.E.Baker

arctica Lyngé, Staurothele

arctica (Ach.) Nyl., Umbilicaria

arctica Lyngé, Verrucaria

arcticum Lyngé, Collema = Rostania ceranisca (Nyl.)
Otálora et al.

arcticum (L.) Torss., Nephroma

arcticum Lyngé, Stereocaulon

arctogena (Th.Fr.) H.Olivier, Lecidea = Calvitimela
melaleuca (Sommerf.) M.P.Andreev

"arctogenum", Rhizocarpon = Rhizocarpon leptolepis
Anzi

arctoooides Hellb., Biatora = Lecidella stigmatea
(Ach.) Hertel & Leuckert

"arctoparmeliae" R.Sant., Lichenostigma

arctophila Th.Fr., Pannaria = Santessoniella
arctophila (Th.Fr.) Henssen

arctophila (Th.Fr.) Malme, Parmeliella =
Santessoniella arctophila (Th.Fr.) Henssen

arctophila (Th.Fr.) Henssen, Santessoniella

arenaria (Pers.) Müll.Arg., Caloplaca = Rufoplaca
arenaria (Pers.) Arup et al.

arenaria auct., Caloplaca = Caloplaca erythrocarpa
(Pers.) Zwackh

arenaria (A.Massal.) Vain., Coniocybopsis =
Microcalicium arenarium (Hampe ex A.Massal.)
Tibell

- arenaria Fr., Evernia = Ramalina thrausta (Ach.) Nyl.
 arenaria (Hepp) Arnold, Rinodina = Rinodina
 tephraspis (Nyl.) Herre
- arenaria auct., Rinodina = Rinodina teichophila
 (Nyl.) Arnold
- arenaria (Pers.) Arup et al., Rufoplaca**
- arenarium (A.Massal.) Hampe ex Körb., Calicium =
 Microcalicium arenarium (Hampe ex A.Massal.)
 Tibell
- arenarium (Hampe ex A.Massal.) Tibell,
 Microcalicium**
- arenarium (L.I.Savicz) I.M.Lamb, Stereocaulon**
- arenicola (Nyl. ex Mudd) H.Olivier, Bacidia =
 Arthrorhaphis grisea Th.Fr.
- arenicola Elenkin, Placynthiella = Placynthiella
 hyporhoda (Th.Fr.) Coppins & P.James
- arenicola Nyl. ex Mudd, Rhaphiospora =
 Arthrorhaphis grisea Th.Fr.
- areolata Schaer., Lecidea = Lecanora marginata
 (Schaer.) Hertel & Rambold
- areolata (Ach.) A.Massal., Pertusaria
- areolata (Ach.) Lettau, Staurothele**
- areolatus (Flot.) Körb., Porocyphus = Porocyphus
 coccodes (Flot.) Körb.
- argena (Spreng.) Flot., Phlyctis**
- argentata (Ach.) Malme, Lecanora**
- argillacea (Arnold) Hue, Acarospora**
- argillacea Fr., Verrucaria = Verrucaria muralis Ach.
- argilospila (Nyl.) A. L. Sm., Arthopyrenia =
 Collemopsidium argilospilum (Nyl.) Coppins &
 Aptroot
- argilospila Nyl., Verrucaria = Collemopsidium
 argilospilum (Nyl.) Coppins & Aptroot
- argilospilum (Nyl.) Coppins & Aptroot,
 Collemopsidium**
- argilospilum (Nyl.) Coppins, Pyrenocollema =
 Collemopsidium argilospilum (Nyl.) Coppins &
 Aptroot
- argopholis (Ach.) Ach., Lecanora**
- argopholis (Ach.) Brusse, Schistoplaca = Lecanora
 argopholis (Ach.) Ach.
- armeniaca (DC.) Hafellner, Calvitimela**
- armeniaca (DC.) Fr., Lecidea = Calvitimela
 armeniaca (DC.) Hafellner
- armeniaca subsp. arctogena Th.Fr., Lecidea =
 Calvitimela melaleuca (Sommerf.) M.P.Andreev
- armeniaca (DC.) Hertel & Rambold, Tephromela =
 Calvitimela armeniaca (DC.) Hafellner
- armorica Nyl., Ramalina = Ramalina cuspidata
 (Ach.) Nyl.
- arnoldiana Körb., Bacidia = Bacidina arnoldiana
 (Körb.) V.Wirth & Vězda
- arnoldiana (Körb.) V.Wirth & Vězda, Bacidina**
- arnoldiana (Hepp) Zahlbr., Lemmopsis**
- arnoldiana Zopf, Pharcidia = Stigmatidium
 stygnospilum (Minks) R.Sant.
- arnoldianum Degel., Dermatocarpon =
 Dermatocarpon miniatum (L.) W.Mann var.
 miniatum
- arnoldii Servit, Buellia**
- arnoldii (Wedd.) Arup et al., Calogaya**
- arnoldii (Wedd.) Zahlbr., Caloplaca = Calogaya
 arnoldii (Wedd.) Arup et al.
- arnoldii subsp. oblitterata (Pers.) Gaya, Caloplaca =
 Calogaya arnoldii (Wedd.) Arup et al.
- arnoldii (Kremp.) Th.Fr., Catillaria = Catillaria
 minuta (A.Massal.) Lettau
- arnoldii (Hepp) Vouaux, Discothecium =
 Polycoccum arnoldii (Hepp) D.Hawksw.
- arnoldii Du Rietz, Parmelia = Parmotrema arnoldii
 (Du Rietz) Hale
- arnoldii (Du Rietz) Hale, Parmotrema**
- arnoldii (Hepp) D.Hawksw., Polycoccum**
- arnoldii auct., Rinodina = Rinodina milvina
 (Wahlenb.) Th.Fr.
- arnoldii H.Mayrhofer & Poelt, Rinodina
- arnoldii Motyka, Usnea = Usnea lapponica Vain.

arnoldii J.Stein, Verrucaria = Verrucaria hochstetteri Fr.

aromatica (Sm.) A.Massal., Toninia = Toniniopsis
aromatica (Sm.) Kistenich et al.

aromatica var. cervina (Lönnr.) Th.Fr., Toninia =
Toniniopsis verrucarioides (Nyl.) Kistenich et al.

aromatica (Sm.) Kistenich et al., Toniniopsis

arthoniae M.S.Christ. & D.Hawksw., Cladosporium
= Taeniolella arthoniae (M.S.Christ. & D.Hawksw.)
Heuchert & U.Braun

arthoniae (Arnold) Hafellner, Stigidium

**arthoniae (M.S.Christ. & D.Hawksw.) Heuchert
& U.Braun, Taeniolella**

arthonioides (Ach.) A.L.Sm., Arthonia

arthonioides Fée, Lecidea = Melaspilea urceolata
(Fr.) Ertz & Diederich

arthonioides Nyl., Melaspilea = Melaspilea urceolata
(Fr.) Ertz & Diederich

arthoniza Nyl., Lecidea = Lecidella stigmata (Ach.)
Hertel & Leuckert

arthonizella (Nyl.) Zahlbr., Bacidia = Micarea
peliocarpa (Anzi) Coppins & R.Sant.

arthrorhaphidicola Alstrup, Cercidospora =
Cercidospora trypetheliza (Nyl.) Hafellner &
Obermayer

asahinae J.W.Thomson, Cladonia

ascaridiella (Nyl.) D.Hawksw., Pleospilis =
Spirographa fusisporella (Nyl.) Zahlbr.

ascaridosporum (A.Massal.) Degel., Collema =
Gabura fasciculare (L.) P.M.Jørg.

asema (Nyl.) Knoph & Hertel, Lecidella

asikkalense Vain, Calicium = Chaenothecopsis
pusilla (Ach.) A.F.W.Schmidt

aspegrenii Fr., Sphaeria = Lecanora hypopta (Ach.)
Vain.

aspera A.Massal., Parmelia = Melanohalea
exasperata (De Not.) O.Blanco et al.

asperellum (Ach.) Trevis., Placynthium

asperellum (Ach.) Nyl., Pterygium = Placynthium
asperellum (Ach.) Trevis.

aspergilla (Ach.) Hafellner, Lepra

aspergilla (Ach.) J.R.Laundon, Pertusaria = Lepra
aspergilla (Ach.) Hafellner

aspergillus Ach., Lichen = Lepra aspergilla (Ach.)
Hafellner

aspera Leight., Arthonia = Arthonia arthonioides
(Ach.) A.L.Sm.

aspera (Borrer) J.R.Laundon, Rinodina

asperula Servit, Verrucaria

aspiciliae Zehetl., Verrucaria = Placopyrenium
canellum (Nyl.) Gueidan & Cl.Roux

aspiciliicola R.Sant., Verrucaria = Placopyrenium
canellum (Nyl.) Gueidan & Cl.Roux

aspicilioidea (Th.Fr.) R.Sant., Aspicilia

aspicilioidea (Th.Fr.) H.Magn., Lecanora = Aspicilia
aspicilioidea (Th.Fr.) R.Sant.

aspicilioidea Th.Fr., Lecidea = Aspicilia aspicilioidea
(Th.Fr.) R.Sant.

aspicilioides Vain., Verrucaria

aspidota (Ach.) Poetsch, Parmelia = Melanohalea
exasperata (De Not.) O.Blanco et al.

aspratile (Ach.) Henssen, Placynthium =
Placynthium asperellum (Ach.) Trevis.

asserculorum, Lecidea

asserigena (Lahm) H.Olivier, Caloplaca =
Marchantiana asserigena (Lahm) Søchting & Arup

**asserigena (Lahm) Søchting & Arup,
Marchantiana**

assigna (Lahm ex Arnold) Dalla Torre & Sarth.,
Caloplaca = Marchantiana asserigena (Lahm)
Søchting & Arup

assimilata Nyl., Lecidea = Micarea assimilata (Nyl.)
Coppins

assimilata f. aberrans Th.Fr., Lecidea = Micarea
paratropa (Nyl.) Alstrup

assimilata var. infuscata Th.Fr., Lecidea = Micarea
incrassata Hedl.

assimilata (Nyl.) Coppins, Micarea

assimilis (Körb.) Hafellner & Hertel, Carbonea

assimilis (Körb.) Th.Fr., Lecidea = Carbonea
assimilis (Körb.) Hafellner & Hertel

assimulans (Nyl.) Forssell, Psorotichia =
Pterygiopsis concordatula (Nyl.) P.M.Jørg.

**associata (Th.Fr.) Alstrup & D.Hawks.,
Geltingia**

associata Th.Fr., Lecidea = Geltingia associata (Th.
Fr.) Alstrup & D.Hawks.

associata Norman, Melaspilea = Felipes
leucopellaeus (Ach.) Frisch & G.Thor

associata (Th.Fr.) Sacc. & D.Sacc., Nesolechia =
Geltingia associata (Th.Fr.) Alstrup & D.Hawks.

assulata (Körb.) Vězda, Bacidia = Bacidina assulata
(Körb.) S.Ekman

assulata (Körb.) S.Ekman, Bacidina

asterella Poelt & Sulzer, Buellia

asteriscus (Anzi) Aptroot & Lücking, Gyalidea

asteriscus Anzi, Solorinella = Gyalidea asteriscus
(Anzi) Aptroot & Lücking

asyndeta (Nyl.) V.Wirth & Vězda, Fuscidea

asyndeta Nyl., Lecidea = Fuscidea asyndeta (Nyl.) V.
Wirth & Vězda

aterrima (Kremp. ex Anzi) Zahlbr., Microthelia =
Lichenothelia scopularia (Nyl.) D.Hawks.

athallina H.Magn., Caloplaca = Blastenia
subathallina Arup & Vondrák

athallina (Wedd.) Du Rietz, Candelariella

athallina (Hepp) Hellb., Catillaria = Kiliasia athallina
(Hepp) Hafellner

athallina (Hepp) Lynge, Catinaria = Kiliasia athallina
(Hepp) Hafellner

athallina (Müll.Arg.) Hafellner, Dactylospora =
Sclerococcum athallinum (Müll.Arg.) Ertz &
Diederich

athallina (Müll.Arg.) Vouaux, Karschia =
Sclerococcum athallinum (Müll.Arg.) Ertz &
Diederich

athallina (Hepp) Hafellner, Kiliasia

athallina (Hepp) Timdal, Toninia = Kiliasia athallina
(Hepp) Hafellner

**athallinum (Müll.Arg.) Ertz & Diederich,
Sclerococcum**

athroocarpa (Ach.) Clauzade & Cl.Roux,
Amygdalaria = Immersaria athroocarpa (Ach.)
Rambold & Pietschm.

**athroocarpa (Ach.) Rambold & Pietschm.,
Immersaria**

athroocarpa (Ach.) Ach., Lecidea = Immersaria
athroocarpa (Ach.) Rambold & Pietschm.

athroocarpa (Ach.) Hertel & Rambold, Porpidia =
Immersaria athroocarpa (Ach.) Rambold &
Pietschm.

atlantica (H.Magn.) Räsänen, Aspicilia = Fuscidea
intercincta (Nyl.) Poelt

atlantica (Degel.) P.M.Jørg. & P.James, Degelia =
Pectenaria atlantica (Degel.) P.M.Jørg. et al.

atlantica (H.Magn.) P.James & Poelt, Fuscidea =
Fuscidea intercincta (Nyl.) Poelt

atlantica P.M.Jørg. & P.W.James, Fuscopannaria =
Vahliella atlantica (P.M.Jørg. & P.W.James) P.M.
Jørg.

atlantica H.Magn., Lecanora = Fuscidea intercincta
(Nyl.) Poelt

atlantica Orange, Lepraria

atlantica Degel., Parmeliella = Pectenaria atlantica
(Degel.) P.M.Jørg. et al.

atlantica (Degel.) P.M.Jørg. et al., Pectenaria

atlantica W.L.Culb., Ramalina = Ramalina cuspidata
(Ach.) Nyl.

atlantica Matzer & Hafellner, Roselliniella

**atlantica (P.M.Jørg. & P.W.James) P.M.Jørg.,
Vahliella**

atlantica (H.Magn.), Verrucaria = Dermatocarpon
litorale H.Magn.

atlanticum H.Magn., Dermatocarpon =
Dermatocarpon litorale H.Magn.

atlanticum I.M.Lamb, Rhizocarpon = Rhizocarpon
richardii (Lamy ex Nyl.) Zahlbr.

atomaria sensu Müll.Arg., Arthopyrenia =
Naetrocymbe punctiformis (Pers.) R.C.Harris

atomaria (Ach.) Vain., Campylacia = Leptorhaphis
atomaria (Ach.) Szatala

atomaria Th.Fr., Lecidea

atomaria (Ach.) Szatala, Leptorhaphis

atomariella (Nyl.) Hulting, Arthopyrenia

atomarioides (Müll.Arg.) H.Kilias, Catillaria

atomarioides Müll.Arg., Lecidea = Catillaria

atomarioides (Müll.Arg.) H.Kilias

atomarium (Ach.) Fr., Calicium = Microcalicium
disseminatum (Ach.) Vain.

atra (Pers.) A.Schneid., Arthonia

atra (Huds.) Ach., Lecanora = Tephromela atra
(Huds.) Hafellner

atra var. expansa Ach., Lecanora = Lecanora
campestris (Schaer.) Hue

atra var. grumosa (Pers.) Ach., Lecanora =
Tephromela grumosa (Pers.) Hafellner & Cl.Roux

atra Pers., Opegrapha = Arthonia atra (Pers.) A.
Schneid.

atra (Huds.) Hafellner, Tephromela

atramentea Norman, Microthelia = Lichenothelia
scopularia (Nyl.) D.Hawksw.

atrata Hue, Acarospora

atrata (Sm.) Anzi, Buellia = Orphniospora moriopsis
(A.Massal.) D.Hawksw.

atrata (Ach.) Wahlenb., Lecidea = Tremolecia atrata
(Ach.) Hertel

atrata subsp. moriopsoides Vain., Lecidea =
Orphniospora moriopsoides (Vain.)

atrata (Sm.) Poelt, Orphniospora = Orphniospora
moriopsis (A.Massal.) D.Hawksw.

atrata (Ach.) Hertel, Tremolecia

atriseda (Fr.) Nyl., Lecanora = Protoparmelia

atriseda (Fr.) R.Sant. & V.Wirth

atriseda (Fr.) R.Sant. & V.Wirth, Protoparmelia

atriuscula Nyl., Lecanora

atriuscula H.Magn., Lecidea = Miriquidica atrofulva
(Sommerf.) A.J.Schwab & Rambold

atroalba (Tuck.) Zahlbr., Caloplaca

atroalbescens (Nyl.) Zahlbr., Rhizocarpon =
Rhizocarpon eupetraeoides (Nyl.) Blomb. & Forssell

**atrobrunnea (Ramond ex Lam. & DC.) Schaer.,
Lecidea**

atrocaeruleum (Schaer.) A.Massal., Leptogium =
Scytinium lichenoides (L.) Otálora et al.

atrocervina Vain., Lecidea

atrocincta Th.Fr., Lecanora = Protoparmelia nephaea
(Sommerf.) R.Sant.

atrocinerea (Schaer.) Vain., Lecidea = Schaereria
fuscocinerea (Nyl.) Clauzade & Cl.Roux

atrocinerea (Hook.) Körb., Rinodina

atrocinerea var. fatiscens (Th.Fr.) Malme, Rinodina =
Rinodina aspersa (Borrer) J.R.Laundon

atrocuprea Vain., Lecidea = Tremolecia atrata (Ach.)
Hertel

atrocyanescens Th.Fr., Blastenia = Caloplaca
atrocyanescens (Th.Fr.) H.Olivier

atrocyanescens (Th.Fr.) H.Olivier, Caloplaca

atroferrata Branth & Grønlund, Lecidea =
Tremolecia atrata (Ach.) Hertel

atroflava (Turner) Mong., Caloplaca

atroflavescens Lyngæ, Rhizocarpon

atroflavescens subsp. pulverulentum (Schaer.)
Runemark, Rhizocarpon = Rhizocarpon
atroflavescens Lyngæ

atrofulva Sommerf., Lecidea = Miriquidica atrofulva
(Sommerf.) A.J.Schwab & Rambold

**atrofulva (Sommerf.) A.J.Schwab & Rambold,
Miriquidica**

atrofusca (Schaer.) Goward, Brodoa

atrofusca (Schaer.) Räsänen, Hypogymnia = Brodoa
atrofusca (Schaer.) Goward

atrofusca (Hepp) Mudd, Lecidea = Bryobilimbia
hypnorum (Lib.) Fryday et al.

atrofusca (Schaer.) Cromb., Parmelia = Brodoa
atrofusca (Schaer.) Goward

atrogrisea (Delise ex Hepp) Körb., Bacidia = Bacidia
laurocerasi (Delise ex Duby) Zahlbr.

atrolivida (Vain.) Zahlbr., Bacidia = Mycobilimbia
tetramera (De Not.) Vitik. et al. ex Hafellner & Türk

atrolivida (Vain.) Vain., Bilimbia = Mycobilimbia
tetramera (De Not.) Vitik. et al. ex Hafellner & Türk

atrolivida Vain., Lecidea = Mycobilimbia tetramera
(De Not.) Vitik. et al. ex Hafellner & Türk

**atromarginata (H.Magn.) Hertel & Rambold,
Lecanora**

atromarginata H.Magn., Lecidea = Lecanora
atromarginata (H.Magn.) Hertel & Rambold

atronivea (Arnold) Hertel, Carbonea

atronivea Arnold, Lecidea = Carbonea atronivea
(Arnold) Hertel

atrocarpoides Vain., Lecidea = Lecidea praenubila
Nyl.

atropallida Vain., Pertusaria

atropurpurea (Schaer.) Th.Fr., Catillaria = Catinaria
atropurpurea (Schaer.) Vězda & Poelt

atropurpurea subsp. neuschildii (Körb.) Th.Fr.,
Catillaria = Catinaria neuschildii (Körb.) P.James

atropurpurea (Schaer.) Vězda & Poelt, Catinaria

atorrufa (Dicks.) Fr., Biatora = Lecidoma demissum
(Rutstr.) Gotth. Schneid. & Hertel

atorrufa (Dicks.) Ach., Lecidea = Lecidoma
demissum (Rutstr.) Gotth. Schneid. & Hertel

atorrufella Nyl., Lecidea = Lecidea turficola (Hellb.)
Th.Fr.

atrosanguinea var. alpina (Stizenb.) Th.Fr., Bacidia =
Toniniopsis illudens (Nyl.) Kistenich et al.

atrosanguinea var. corticola Th.Fr., Bacidia =
Toniniopsis separabilis (Nyl.) Gerasimova & A.Beck

atrosanguinea var. irrorata Th.Fr., Bacidia =
Toniniopsis illudens (Nyl.) Kistenich et al.

atrosanguinea (Flörke) Vain., Lecidea = Lecidella
atrosanguinea (Flörke)

atrosanguinea (Flörke), Lecidella

atrosulphurea (Wahlenb.) Ach., Lecanora

atroumbrina (H.Magn.) Poelt et al., Fuscidea =
Ropalospora atroumbrina (H.Magn.) S.Ekman

atroumbrina H.Magn., Lecidea = Ropalospora
atroumbrina (H.Magn.) S.Ekman

atroumbrina (H.Magn.) S.Ekman, Ropalospora

atrovirens auct., Rhizocarpon = Rhizocarpon
lecanorinum Anders

atroviridis (Arnold) Th.Fr., Lecidea = Biatora
ocelliformis (Nyl.) Arnold

atrynea (Ach.) Nyl., Lecanora = Lecanora cenisia
Ach.

atrynella Nyl., Lecanora = Myriolecis dispersa
(Pers.) Śliwa et al.

atrynoides M.Knowles, Lecania

attendenda (Nyl.) Arnold, Dactylospora =
Sclerococcum attendendum (Nyl.) Ertz & Diederich

attendenda (Nyl.) Arnold, Lecio-grapha =
Sclerococcum attendendum (Nyl.) Ertz & Diederich

**attendendum (Nyl.) Ertz & Diederich,
Sclerococcum**

atingens (Nyl.) Nyl., Lecanora = Lecanora anopta
Nyl.

auerswaldii (Hepp ex Stizenb.) Mig., Bacidia =
Scutula effusa Rabenh.) Kistenich et al.

aurantia auct., Caloplaca = Variospora flavescens
(Huds.) Arup et al.

aurantia (Pers.) Hellb., Caloplaca = Variospora
aurantia (Pers.) Arup et al.

aurantia (Pers.) Arup et al., Variospora

aurantiaca (Lightf.) Th.Fr., Caloplaca = Gyalolechia
flavorubescens (Huds.) Söchting et al.

aurantiaca var. inalpina (Ach.) H.Magn., Caloplaca =
Gyalolechia flavovirescens (Wulfen) Söchting et al.

aurantiaca f. oasis (A.Massal.) Th.Fr., Caloplaca =
Flavoplaca oasis (A.Massal.) Arup et al.

aurantiacum (Lightf.) Körber, Callopisma =
Gyalolechia flavorubescens (Huds.) Söchting et al.

**aurantiacum (Lasch) D.Hawksw. & A.Henrici,
Erythricium**

aurantiacum Lasch, Illosporium = Erythricium
aurantiacum (Lasch) D.Hawksw. & A.Henrici
aurantiacum Diederich & Schultheis,
Marchandiobasidium = Erythricium aurantiacum
(Lasch) D.Hawksw. & A.Henrici
aurantiacus (Lasch) Diederich & Etayo,
Marchandiomyces = Erythricium aurantiacum
(Lasch) D.Hawksw. & A.Henrici
aurea Eitn., Lecanora = Lecanora subaurea Zahlbr.

aurella (Hoffm.) Zahlbr., Candelariella

aurella f. heidelbergensis (Nyl.) P.James,
Candelariella = Candelariella aurella (Hoffm.)
Zahlbr.

aurella f. smaragdula Szatala, Candelariella =
Candelariella aurella (Hoffm.) Zahlbr.

aureola (Ach.) Erichsen, Xanthoria

aureolepra T.Sprib. & Tønsberg, Biatora

auriculata Th.Fr., Lecidea

auriculata Th.Fr. subsp. auriculata, Lecidea

**auriculata Th.Fr. subsp. brachyspora Th.Fr.,
Lecidea**

auriculata var. diducens (Nyl.) Th.Fr., Lecidea =
Lecidea diducens Nyl.

auriculata var. hardangeriana Vain. in Havaas,
Lecidea = Adelolecia pilati (Hepp) Hertel &
Hafellner

auriculatum Hoffm., Collema = Lathagrium
auriforme (With.) Otálora et al.

auriforme (With.) Coppins & J.R.Laundon, Collema
= Lathagrium auriforme (With.) Otálora et al.

auriforme (With.) Otálora et al., Lathagrium

aurorae Savić & Tibell, Polyblastia

auruntii (A.Massal.) Kremp., Thelidium

austera (Nyl.) P.James, Fuscidea

austerodes (Nyl.) Räsänen, Hypogymnia

austerodes (Nyl.) Nyl., Parmelia = Hypogymnia
austerodes (Nyl.) Räsänen

**australe (Triebe & Hertel) Ertz & Diederich,
Sclerococcum**

australis Triebe & Hertel, Dactylospora =
Sclerococcum australe (Triebe & Hertel) Ertz &
Diederich

austriacum Zschacke, Thelidium

austro-norvegica H.Magn., Lecanora = Aspilidea
myrinii (Fr.) Hafellner

aviaria Vain., Lecidea

azureum auct., Leptogium = Leptogium cochleatum
(Dicks.) P.M.Jørg. & P.James

bachmanianum (Fink) Degel., Collema = Enchylium
bachmanianum (Fink) Otálora et al.

bachmanianum var. millegranum Degel., Collema =
Enchylium bachmanianum (Fink) Otálora et al.

bachmanianum (Fink) Otálora et al., Enchylium

bachmanianum var. millegranum (Degel.) M.Schultz
& McCune, Enchylium = Enchylium bachmanianum
(Fink) Otálora et al.

bachmannii Anders, Dermatocarpon

bachmannii var. inundatum Klem., Dermatocarpon =
Dermatocarpon meiophyllizum Vain.

**bachmannii (Diederich & M.S.Christ.) Millanes &
Wedin, Heterocephalacria**

bachmannii Diederich & M.S.Christ., Syzygospora =
Heterocephalacria bachmannii (Diederich & M.S.
Christ.) Millanes & Wedin

bacidiella, Micarea = Micarea globulosella (Nyl.)
Coppins

bacillaris Genth, Cladonia = Cladonia macilenta
Hoffm.

bacillifera (Nyl.) Arnold p.p., Bacidia = Scutula
circumspecta (Vain.) Kistenich et al.

bacillifera f. circumspecta Nyl. in Norrlin &
Nylander, Lecidea = Scutula circumspecta (Vain.)
Kistenich et al.

bacilliformis (Nyl.) Glück, Cladonia

bacilligera (Arnold) Arnold, Staurothele

badia (Fr.) A.Massal., Buellia

badia (Hoffm.) Ach., Lecanora = Prototermelia
badia (Hoffm.) Hafellner

badia var. subcinerascens Vain., Lecanora =
Protoparmelia badia (Hoffm.) Hafellner

badia (Fr.) Kalb, Monerolechia = Buellia badia (Fr.)
A.Massal.

badia (Hoffm.) Hafellner, Protoparmelia

badiella Nyl., Lecanora = Rinodina tephraspis (Nyl.)
Herre

badiella (Nyl.) Th.Fr., Rinodina = Rinodina
tephraspis (Nyl.) Herre

**badioatra (Kremp.) Hertel & Rambold,
Rimularia**

**badioatrum (Flörke ex Spreng.) Th.Fr.,
Rhizocarpon**

badiofusca (Nyl.) Th.Fr., Acarospora

badiofusca var. glaucocarpoides H.Magn.,
Acarospora = Acarospora septentrionalis M.Westb.
& Wedin

baeomma (Nyl.) P.James & J.R.Laundon, Lecania

baeomycearia (Linds.) Sacc. & Trotter,
Leptosphaeria = Pyrenidium actinellum Nyl.

baeomyces (L.f.) Rambold & Hertel, Dibaeis

baeomyces L.f., Lichen = Dibaeis baeomyces (L.f.)
Rambold & Hertel

bagliettoana (A.Massal. & De Not.) Jatta, Bacidia =
Toniniopsis bagliettoana (A.Massal. & De Not.)
Kistenich & Tindal

**bagliettoana (A.Massal. & De Not.) Kistenich &
Tindal, Toniniopsis**

bahusiensis Degel., Buellia = Orphniospora
moriopsis (A.Massal.) D.Hawksw.

bahusiensis (Blomb.) Th.Fr., Catillaria = Tylohallia
biformigera (Leight.) P.James & H.Kilias

bahusiensis H.Magn., Lecanora = Sagedia simoënsis
(Räsänen) A.Nordin et al.

bahusiensis H.Magn., Ochrolechia

balanina (Wahlenb.) Th.Fr., Physcia = Rinodina
balanina (Wahlenb.) Vain.

balanina (Wahlenb.) Vain., Rinodina

baldensis (A.Massal.) Vězda, Bagliettoa

baldensis A.Massal., Verrucaria = Bagliettoa
baldensis (A.Massal.) Vězda

**balsamconensis J.L.Allen & McMullin,
Chaenotheca**

baltica Erichsen, Buellia = Buellia aethalea (Ach.)
Th.Fr.

baltica Malme, Lecidea = Porpidia cinereoatra (Ach.)
Hertel & Knoph

baltica Savić & Tibell, Polyblastia

baltica Lettau, Ramalina

banatica Servít, Verrucaria

banksiae B.Sutton & Alcorn, Sarcinulella =
Anisomeridium polypori (Ellis & Everh.) M.E.Barr

barbara (Th.Fr.) R.Sant. & Triebel, Sagediopsis

barbara Th.Fr., Segestria = Sagediopsis barbara (Th.
Fr.) R.Sant. & Triebel

barbarus (Th.Fr.) Keissl., Ophiobolus = Sagediopsis
barbara (Th.Fr.) R.Sant. & Triebel

barbata (L.) Weber ex F.H.Wigg., Usnea

baumgartneri Zahlbr., Caloplaca = Calogaya
biatorina (A.Massal.) Arup et al.

**bauschiana (Körb.) S.Ekman & M.Svensson,
Brianaria**

bauschiana (Körb.) V.Wirth & Vězda, Micarea =
Brianaria bauschiana (Körb.) S.Ekman & M.
Svensson

bayrholferi (Schaer.) H.Olivier, Buellia = Buellia
badia (Fr.) A.Massal.

beckhausii Körb., Bacidia = Biatora beckhausii
(Körb.) Tuck.

beckhausii (Körb.) Tuck., Biatora

beckhausii (Körb.) Vězda, Micarea = Biatora
beckhausii (Körb.) Tuck.

bella Th.Fr., Microglaena = Thelenella muscorum
(Fr.) Vain. var. octospora (Nyl.) Coppins & Fryday

bellidiflora (Ach.) Schaer., Cladonia

bellum (Spreng.) Tuck., Nephroma

beloniella (Nyl.) Zahlbr., Porina

- beloniella Nyl., Verrucaria = Porina beloniella (Nyl.) Zahlbr.
- berengeriana A.Massal., Biatora = Lecidea
berengeriana (A.Massal.) Th.Fr.
- berengeriana (A.Massal.) Th.Fr., Lecidea**
- berengeriana (A.Massal.) Hafellner & V.Wirth,
Mycobilimbia = Lecidea berengeriana (A.Massal.)
Th.Fr.
- berengerianus (Arnold) Grube & Triebel,
Zwackhiomyces**
- bergensis Tønsberg, Lepraria**
- beringii Nyl., Lecanora = Myriolecis zosteræ (Ach.)
Śliwa et al.
- berntii (Lyngé) A.Nordin et al., Aspicilia**
- bertianus De Not., Abrothallus
- bertianus auct. scand., Abrothallus = Abrothallus
parmeliarum (Sommerf.) Arnold
- beschiana Diederich, Taeniolella = Talpapellis
beschiana (Diederich) Zhurb. et al.
- beschiana (Diederich) Zhurb. et al., Talpapellis**
- betuleti Nyl., Arthonia = Arthonia patellulata Nyl.
- betulicola Kullh., Biatora = Lecidea betulicola
(Kullh.) H.Magn.
- betulicola (Kullh.) H.Magn., Lecidea**
- betulina (Hepp) Th.Fr., Buellia = Buellia
griseovirens (Turner & Borrer ex Sm.) Almb.
- betulina Motyka, Usnea = Usnea lapponica Vain.
- betulinum auct., Opegrapha = Alyxoria culmigena
(Libert) Ertz
- betulinum (Nyl.) Tibell, Phaeocalicium**
- betulinum (Hepp) Zwackh, Rhizocarpon = Buellia
griseovirens (Turner & Borrer ex Sm.) Almb.
- betulinum (Hepp) Vain., Sporodium = Buellia
griseovirens (Turner & Borrer ex Sm.) Almb.
- biatorella (Arnold) Vězda, Leucocarpia =
Psoroglaena biatorella (Arnold) Lücking
- biatorella Arnold, Microglaena = Psoroglaena
- biatorella (Arnold) Lücking
- biatorella (Arnold) Lücking, Psoroglaena**
- biatoricola Ihlen & Owe-Larss., Arthonia**
- biatorina (Körb.) Vain., Bacidia**
- biatorina (A.Massal.) Arup et al., Calogaya**
- biatorina (A.Massal.) J.Steiner, Caloplaca =
Calogaya biatorina (A.Massal.) Arup et al.
- biatorina Körb., Rinodina = Rinodina oxydata (A.
Massal.) A.Massal.
- biatorina var. buellioides C.A.Berg, Rinodina =
Amandinea pelidna (Ach.) Fryday & L.Arcadia
- biatorinum (Nyl.) Leight., Leptogium = Scytinium
biatorinum (Nyl.) Otálora et al.
- biatorinum (Nyl.) Otálora et al., Scytinium**
- bicineta Ramond, Lecanora**
- bicolor (Ehrh.) Nyl., Alectoria = Bryoria bicolor
(Ehrh.) Brodo & D.Hawksw.
- bicolor (Ehrh.) Brodo & D.Hawksw., Bryoria**
- bicolor H.Magn., Lecanora = Aspicilia virginea Hue
- biforme (Borrer) R.C.Harris, Anisomeridium**
- biformigera (Leight.) H.Magn., Catillaria =
Tylothallia biformigera (Leight.) P.James & H.Kilias
- biformigera (Leight.) P.James & H.Kilias,
Tylothallia**
- biformis (Borrer) A.Massal., Arthopyrenia =
Anisomeridium biforme (Borrer) R.C.Harris
- bifurcata Pykälä et al., Verrucaria**
- birgittae H.Magn., Rhizocarpon = Rhizocarpon
intersitum Arnold
- bischoffii (Hepp) A.Massal., Rinodina**
- bischoffii var. immersa Körb., Rinodina = Rinodina
bischoffii (Hepp) A.Massal.
- bispora Nyl., Solorina**
- bitteri (Lyngé) Ahti, Hypogymnia**
- bitteri Lyngé, Parmelia = Hypogymnia bitteri
(Lyngé) Ahti
- bitteriana (Zahlbr.) Räsänen, Hypogymnia =
Hypogymnia farinacea Zopf
- bitteriana Zahlbr., Parmelia = Hypogymnia farinacea
Zopf

- blyttii (Fr.) Schaer., Lecanora = Lecanora argopholis (Ach.) Ach.
- boblensis Servit, Verrucaria**
- bockii (Fr.) Boistel, Aspicilia = Rimularia gibbosa (Ach.) Coppins et al.
- bockii (Fr.) Rabenh., Lecanora = Rimularia gibbosa (Ach.) Coppins et al.
- bohemia (Körb.) H.Magn., Lecanora = Lobotheallia recedens (Taylor) A.Nordin et al.
- bolacinum Nyl., Dendrisocaulon = Lobaria amplissima (Scop.) Forssell
- bolanderi (Tuck.) Herre, Rhizocarpon**
- boligera (Norman ex Th.Fr.) Hedl., Lecanora**
- bombospora Th.Fr. & Almq. ex Th.Fr., Polyblastia**
- boreale Ahlner, Erioderma = Erioderma pedicellatum (Hue) P.M.Jørg.
- boreale Tibell, Phaecalicium**
- boreale (Holien & Ihlen) Ertz & Diederich, Sclerococcum**
- borealis (Vain.) Poelt, Caloplaca**
- borealis M.Westb., Candelariella**
- borealis S.Stenroos, Cladonia**
- borealis Holien & Ihlen, Dactylospora = Sclerococcum boreale (Holien & Ihlen) Ertz & Diederich
- borealis (Körb.) Anzi, Lecidea = Protomicarea limosa (Ach.) Hafellner
- borealis Körb., Lecidella = Protomicarea limosa (Ach.) Hafellner
- borealis (Erichsen) I.Schmitt et al., Lepra**
- borealis Lohtander & Tønsberg, Lepraria**
- borealis Erichsen, Pertusaria = Lepra borealis (Erichsen) I.Schmitt et al.
- borealis Savić & Tibell, Polyblastia**
- borealis (R.Sant. & Poelt) Søchting et al., Xanthomendoza**
- borealis R.Sant. & Poelt, Xanthoria = Xanthomendoza borealis (R.Sant. & Poelt) Søchting et al.
- boreella (Vain.) Zahlbr., Arthonia**
- boreella Nyl., Lecidea = Steinia geophana (Nyl.) Stein
- bormiensis Nyl., Lecanora
- borreri (Tul.) J.C.Davis & D.Hawksw., Lauderlindsaya = Normandina pulchella (Borrer) Nyl.
- borreri auct., Parmelia = Punctelia subrudecta (Nyl.) Krog
- borreri (Trevis.) D.Hawksw. & P.James, Porina = Pseudosagedia borreri (Trevis.) Hafellner & Kalb
- borreri (Trevis.) Hafellner & Kalb, Pseudosagedia**
- botryocarpum H.Magn., Stereocaulon = Stereocaulon tomentosum Fr.
- botryoides (Nyl.) Zahlbr., Lecidea = Micarea
- botryoides (Nyl.) Coppins
- botryoides (Nyl.) Coppins, Micarea**
- botryosa (Fr.) Printzen & Kantvilas, Hertelidea**
- botryosa (Fr.) Th.Fr., Lecidea = Hertelidea botryosa (Fr.) Printzen & Kantvilas
- botryosum (A.Massal.) Zahlbr., Lempholemma**
- botryosum Ach., Stereocaulon**
- botryosum f. depressum Frey, Stereocaulon = Stereocaulon depressum (Frey) I.M.Lamb
- botryosum var. dissolutum (H. Magn.) Frey, Stereocaulon = Stereocaulon spathuliferum Vain.
- botrytes (K.G.Hagen) Willd., Cladonia**
- boulyi (Zahlbr.) M.Steiner & Poelt., Caloplaca = Calogaya lobulata (Flörke) Arup et al.
- bouteillei (Desm.) Zahlbr., Catillaria = Fellhanera
- bouteillei (Desm.) Vězda
- bouteillei (Desm.) Vězda, Fellhanera**
- brachypoda (Ach.) Tibell, Chaenotheca**
- brachypoda Ach., Coniocybe = Chaenotheca
- brachypoda (Ach.) Tibell

brachysperma Vain., Lecidea = Lecanora hypopta (Ach.) Vain.

brachyspora (Th.Fr.) Nyl., Lecidea = Lecidea auriculata Th.Fr. subsp. brachyspora Th.Fr.

brachysporus (Zopf) M.Brand & Diederich, Endococcus

bracteata f. alpina (Th.Fr.) Zahlbr., Caloplaca = Gyalolechia bracteata (Hoffm.) A.Massal.

bracteata f. deformis Erichsen, Caloplaca = Gyalolechia bracteata (Hoffm.) A.Massal.

bracteata (Hoffm.) Räsänen, Fulgensia = Gyalolechia bracteata (Hoffm.) A.Massal.

bracteata var. alpina (Th.Fr.) Räsänen, Fulgensia = Gyalolechia bracteata (Hoffm.) A.Massal.

bracteata subsp. deformis (Erichsen) Poelt, Fulgensia = Gyalolechia bracteata (Hoffm.) A.Massal.

bracteata (Hoffm.) A.Massal., Gyalolechia

breussii Diederich & van den Boom, Verrucaria

brevis (Sandst.) Sandst., Cladonia

brevisporum (Navar.-Ros. & Hladun) Navar.-Ros., Rhagadostoma

britannica (Gyeln.) Holt.-Hartw. & Tønsberg, Peltigera

britannicum P.M.Jørg. & P.James, Leptogium

brodoi Egea & Torrente, Bactrospora

brodoi Kukwa, Ochrolechia

brujeriana (Schaer. ex D.Dietr.) Leight., Lecidea = Ainoa mooreana (Carroll) Lumbsch & I.Schmitt

brunnea (Sw.) A.Massal., Pannaria = Protopannaria pezizoides (Weber) P.M.Jørg. & S.Ekman

brunnea var. convexa Vain. ex Hav., Pannaria = Fuscopannaria ignobilis (Anzi) P.M.Jørg.

brunneola Norman ex H.Magn., Acarospora

brunneola (Ach.) Müll.Arg., Chaenotheca

brunneri Nyl., Lecidea = Calvitimela aglaea (Sommerf.) Hafellner

bryochryson Poelt, Caloplaca

bryoctona (Th.Fr.) Orange, Verrucaria

bryoctonum Th.Fr., Thelidium = Verrucaria bryoctona (Th.Fr.) Orange

bryontha (Ach.) Nyl., Pertusaria

bryontha var. roseoalba Räsänen, Pertusaria = Dibaeis baecomycetes (L.f.) Rambold & Hertel

bryonthae (Arnold) Hafellner, Didymocyrtis

bryonthae (Arnold) G. Winter, Didymosphaeria = Didymocyrtis bryonthae (Arnold) Hafellner

bryonthae (Arnold) Vězda, Polycoccum = Didymocyrtis bryonthae (Arnold) Hafellner

bryophaga (Körb. ex Arnold) Vězda, Gloeoclecta = Cryptodiscus gloeocapsa (Arnold) Baloch et al.

bryophila Lönnr., Polyblastia

bryophila Walt.Watson, Stenocybe = Stenocybe nitida (Mont.) R.Heim

bryophila Nyl., Verrucaria = Polyblastia bryophila Lönnr.

bryophilus (Ach.) Zahlbr., Diploschistes = Diploschistes muscorum (Scop.) R.Sant.

bryospila (Nyl.) Arnold, Arthopyrenia = Frigidopyrenia bryospila (Nyl.) Grube

bryospila (Nyl.) H.Magn., Didymella = Frigidopyrenia bryospila (Nyl.) Grube

bryospila (Nyl.) Grube, Frigidopyrenia

bryospilum (Nyl.) Coppins, Collemopsisidium = Frigidopyrenia bryospila (Nyl.) Grube

bryospilum (Nyl.) Coppins ex Fox in Fox & Scannell, Pyrenocollema = Frigidopyrenia bryospila (Nyl.) Grube

bryospilum (Nyl.) Blomb. & Forssell, Thelidium = Frigidopyrenia bryospila (Nyl.) Grube

bueriana (J.Lahm) Zahlbr., Arthonia

bullata Anzi, Acarospora

bullata, Lecidea = Calvitimela perlata (Haugan & Timdal) M.P.Andreev

bullata auct., Lecidella = Lecanora formosa (Bagl. & Carestia) Knoph & Leuckert

bullata Körb., Lecidella

burgessii (L.) Mont., Leptogium

byssacea (Weigel) Almq., Arthonia = Inoderma
byssaceum (Weigel) Gray

byssacea (Th.Fr.) Czarnota et al., Micarea

byssacea (Fr.) Körb., Stenocybe = Stenocybe
pullatula (Ach.) Stein

byssacea var. minutissima Ach., Verrucaria =
Arthonia minutissima (Ach.) Nyl.

byssaceum Fr., Calicium = Stenocybe pullatula
(Ach.) Stein

byssaceum (Weigel) Gray, Inoderma

byssina (Hoffm.) Henssen & P.M.Jørg., Epiphloea =
Leptogium byssinum (Hoffm.) Zwackh ex Nyl.

byssinum Hoffm., Collema = Leptogium byssinum
(Hoffm.) Zwackh ex Nyl.

byssinum (Hoffm.) Zwackh, Leptogium = Scytinium
subtile (Schrad.) Otálora et al.

byssinum (Hoffm.) Zwackh ex Nyl., Leptogium

byssoboliza (Nyl.) H.Olivier, Bacidia = Aquacidia
antricola (Hulting) Aptroot

byssoboliza (Nyl.) A.L.Sm., Bilimbia = Aquacidia
antricola (Hulting) Aptroot

byssoboliza Nyl., Lecidea = Aquacidia antricola
(Hulting) Aptroot

byssoides (L.) Gaertn. et al., Baeomyces =
Baeomyces rufus (Huds.) Rebent.

byssophila (Körb. ex Hepp) Zahlbr., Porina =
Pseudosagedia byssophila (Körb. ex Hepp) Hafellner
& Kalb

**byssophila (Körb. ex Hepp) Hafellner & Kalb,
Pseudosagedia**

**cacuminum (Th.Fr.) H.Mayrhofer & Sheard,
Amandinea**

cacuminum (A.Massal.) Lohtander, Lepraria =
Lepraria alpina (B.de Lesd.) Tretiach & Baruffo

cacuminum (A.Massal.) J.R.Laundon, Lepraria =
Lepraria alpina (B.de Lesd.) Tretiach & Baruffo

cacuminum (Th.Fr.) Malme, Rinodina = Amandinea

cacuminum (Th.Fr.) H.Mayrhofer & Sheard

cadubriae (A.Massal.) Hedl., Lecanora

cadubriae (A.Massal.) Nyl., Lecidea = Lecanora
cadubriae (A.Massal.) Hedl.

caerulea DC., Verrucaria

caeruleoalbum (Kremp.) Zahlbr., Rhizocarpon

caeruleoatra H.Magn., Caloplaca = Parvoplaca
suspiciosa (Nyl.) Arup et al.

caeruleobadia (Schleich. ex Lam.) A.Massal.,
Pannaria = Pannaria conoplea (Ach.) Bory

caeruleonigricans auct., Toninia = Thalloidima
sedifolium (Scop.) Kistenich et al.

caeruleonigricans (Lightf.) Th.Fr., Toninia =
Fuscidea praeruptorum (Du Rietz & H.Magn. in Du
Rietz) V.Wirth & Vězda

caeruleorubella (Mudd) M.Mayrhofer, Lecania

caerulescens Kotte, Abrothallus

caerulescens (Almq.) R.Sant., Arthonia

caerulescens (Hue) Botnen & Øvstedal, Lepraria =
Lepraria alpina (B.de Lesd.) Tretiach & Baruffo

caesia (Flot.) Körb., Arthonia = Chrysothrix caesia
(Flot.) Ertz & Tehler

caesia (Nyl.) Zahlbr., Arthopyrenia =
Collemopsidium caesium (Nyl.) Coppins & Aptroot

caesia (Flot.) Ertz & Tehler, Chrysothrix

caesia (Fr.) A.Massal., Collolechia = Placynthium
caesium (Fr.) Jatta

caesia (W. Johnson) A.L.Sm., Lecania = Lecania
baecoma (Nyl.) P.James & J.R.Laundon

caesia (Hoffm.) Fűrnr., Physcia

caesia (Fr.) M.Svensson & T.Sprib., Puttea

caesia (Arnold) Arnold, Staurothele

caesiella (Th.Fr.) Henssen, Metamelaena =
Metamelanea caesiella (Th.Fr.) Henssen

caesiella (Th.Fr.) Henssen, Metamelanea

caesiella (B.de Lesd.) Suza, Physcia = Physcia caesia
(Hoffm.) Fűrnr.

caesiella (Th.Fr.) Forssell, Psorotichia =
Metamelanea caesiella (Th.Fr.) Henssen

caesiella Th.Fr., Pyrenopsis = Metamelanea caesiella
(Th.Fr.) Henssen

caesiella (Flörke ex Spreng.) Körb., Rinodina =
Rinodina confragosa (Ach.) Körb.

caesii Diederich & Etayo, Skyttea

caesioalba (Flörke) Körb., Lecanora = Myriolecis
crenulata (Hook.) Śliwa et al.

caesioalba (B.de Lesd.) J.R.Laundon, Lepraria

caesioalbescens (H.Magn.) Räsänen, Biatora =
Fuscidea mollis (Wahlenb.) V.Wirth & Vězda var.
caesioalbescens (H.Magn.) Clauzade & Cl.Roux

caesioatra (Schaer.) Kalb, Frutidella

caesioatra Schaer., Lecidea = Frutidella caesioatra
(Schaer.) Kalb

caesioatra (Schaer.) Kalb, Lecidella = Frutidella
caesioatra (Schaer.) Kalb

caesiocinerea (Nyl. ex Malbr.) Arnold, Aspicilia =
Circinaria caesiocinerea (Nyl. ex Malbr.) A.Nordin et
al.

**caesiocinerea (Nyl. ex Malbr.) A.Nordin et al.,
Circinaria**

caesiocinerea Nyl. ex Malbr., Lecanora = Circinaria
caesiocinerea (Nyl. ex Malbr.) A.Nordin et al.

caesiocinerea var. amphibola (Ach.) Norrlin & Nyl.,
Lecanora = Circinaria caesiocinerea (Nyl. ex Malbr.)
A.Nordin et al.

caesiocinerea H.Magn., Lecidea = Lecidella
stigmathea (Ach.) Hertel & Leuckert

caesiolivens Nyl., Arthonia = Chrysothrix caesia
(Flot.) Ertz & Tehler

**caesiopruinosa (H.Magn.) J.W.Thomson,
Aspicilia**

caesiopruinosa H.Magn., Lecanora = Aspicilia
caesiopruinosa (H.Magn.) J.W.Thomson

caesiopruinosa sensu Th.Fr. p.p., Lecidea = Fuscidea
commixta (H.Magn.) V.Wirth & Vězda

caesiopsila Anzi, Verrucaria

caesiorufa auct., Caloplaca = Rufoplaca scotoplaca
(Nyl.) Arup et al.

caesiorufa f. herbidella Hue, Caloplaca = Blastenia
herbidella (Hue) Servit

caesiorufella (Nyl.) Zahlbr., Caloplaca

caesiosora Poelt, Lecanora

caesiovirens S.Ekman & Holien, Bacidia

caesitium (Nyl.) Hue, Placynthium = Placynthium
caesium (Fr.) Jatta

caesium Fr., Agyrium = Puttea caesia (Fr.) M.
Svensson & T.Sprib.

**caesium (Nyl.) Coppins & Aptroot,
Collemopsidium**

caesium var. frigida Räsänen, Dermatocarpon =
Dermatocarpon polyphyllizum (Nyl.) Blomb. &
Forssell

caesium Räsänen, Dermatocarpon = Dermatocarpon
miniaturum (L.) W.Mann var. cirisodes (Ach.) Zahlbr.

caesium Coppins & P.James, Haematomma =
Mycoblastus caesius (Coppins & P.James) Tønberg

caesium (Ach.) Vain., Leptogium = Leptogium
cyanescens (Rabenh.) Körb.

caesium (Fr.) Jatta, Placynthium

caesium (Nyl.) R.C.Harris, Pyrenocollema =
Collemopsidium caesium (Nyl.) Coppins & Aptroot

caesium Fryday, Rhizocarpon

caesium (Nyl.) Lönnr., Thelidium = Collemopsidium
caesium (Nyl.) Coppins & Aptroot

**caesius (Coppins & P.James) Tønberg,
Mycoblastus**

caespiticia (Pers.) Flörke, Cladonia

caespitosa M.S.Cole & D.Hawksw., Taeniolella

**calcareia (Turner ex Sm.) Ertz & Diederich,
Arthonia**

calcareia (L.) Mudd, Aspicilia = Circinaria calcareia
(L) A.Nordin et al.

calcareia (L) A.Nordin et al., Circinaria

calcareia (L.) Sommerf., Lecanora = Circinaria
calcareia (L) A.Nordin et al.

calcareia var. concreta (Schaer.) Körb., Lecanora =
Circinaria calcareia (L) A.Nordin et al.

calcareia var. contorta (Hoffm.) Hepp, Lecanora =
Circinaria contorta (Hoffm.) A.Nordin et al.

calcareo var. hoffmannii (Ach.) Sommerf., Lecanora = Circinaria contorta (Hoffm.) A.Nordin et al.

calcareo Turner ex Sm., Opegrapha = Arthonia calcarea (Turner ex Sm.) Ertz & Diederich

calcareo (L.) A.Massal., Pachyospora = Circinaria calcarea (L.) A.Nordin et al.

calcareo (Arnold) Arnold, Rinodina

calcareo (Herre) Zahlbr., Zahlbrucknerella

calcareum (Ach.) Anzi, Rhizocarpon = Rhizocarpon umbilicatum (Ramond) Flagey

calcariella (Nyl.) Blomb. & Forssell, Bacidia

calcariella Nyl., Lecidea = Bacidia calcariella (Nyl.) Blomb. & Forssell

calcicola (Galløe) Zahlbr., Candelariella = Xanthocarpia lactea (A.Massal.) A.Massal.

calcicola Galløe, Gyalolechia = Xanthocarpia lactea (A.Massal.) A.Massal.

calcicola Oxner, Xanthoria

calcigena (Th.Fr.) Lynge, Rinodina

calciseda (DC.) Gueidan & Cl.Roux, Bagliettoa

calciseda auct., Verrucaria = Bagliettoa calciseda (DC.) Gueidan & Cl.Roux

calcivorum (Nyl.) Hulting, Thelidium

calcomaura Norman, Sarcogyne = Clauzadea monticola (Schaer.) Hafellner & Bellem.

caliacrensis Servit, Verrucaria

calicaris (L.) Fr., Ramalina

calicaris subsp. elegans (Bagl. & Carestia) Stizenb., Ramalina = Ramalina elegans (Bagl. & Carestia) Jatta

calicaris f. fibrillosa Th.Fr., Ramalina = Ramalina sinensis Jatta

caligans (Nyl.) A.L.Sm., Bacidia = Bacidina caligans (Nyl.) Llop & Hladún

caligans (Nyl.) Llop & Hladún, Bacidina

caliginosa Norman, Polyblastia = Agonomia gelatinosa (Ach.) M.Brand & Diederich

callithrix Norman, Arthopyrenia = Arthopyrenia analepta (Ach.) A.Massal.

callopismum A.Massal., Collema = Scytinium callopismum (A.Massal.) Otálora et al.

callopismum A.Massal. var. callopismum, Collema = Scytinium callopismum (A.Massal.) Otálora et al.

callopismum A.Massal. var. rhyarodes (Nyl.) Degel, Collema = Scytinium callopismum (A.Massal.) Otálora et al.

callopismum (A.Massal.) Otálora et al., Scytinium

callosa Delise ex Harm., Cladonia

callunae (De Not.) Aptroot, Arthopyrenia

caloplacae D.Hawksw., Phoma = Didymocyrtis consimilis Vain.

caloplacae Alstrup & Olech, Stigmatidium = Stigmatidium cerinae Cl.Roux & Triebel

caloplacae (Zahlbr.) Diederich, Tremella

calva (Dicks.) Zahlbr., Protoblastenia

calycioides (Delise ex Duby) Nyl., Gomphillus

cambrini Servit, Verrucaria

campestre (Fr.) Poetsch & Schied., Sarcosagium

campestris (Fr.) Almq., Biatorella = Sarcosagium campestre (Fr.) Poetsch & Schied.

campestris (Schaer.) Hue, Lecanora

campsteriana (Linds.) D.Hawksw. & R.Sant., Sagediopsis

campsteriana Linds., Verrucaria = Sagediopsis campsteriana (Linds.) D.Hawksw. & R.Sant.

cana (Ach.) Leight., Alectoria = Bryoria capillaris (Ach.) Brodo & D.Hawksw.

canariensis J.Steiner, Ramalina

canariensis (Bory) Bory ex Delise, Sticta

candelaria (L.) Frödén et al., Polycauliona

candelaria (L.) Th.Fr., Xanthoria = Polycauliona candelaria (L.) Frödén et al.

candelaria var. marginata Räsänen, Xanthoria = Xanthomendoza fulva (Hoffm.) Søchting et al.

candelariellae Diederich & Etayo, Tremella

candelaris (L.) J.R.Laundon, Chrysothrix

candelaris (L.) Fr., Lepraria = Chrysothrix candelaris (L.) J.R.Laundon

candida (Weber) Th.Fr., Toninia = Thalloidima candidum (Weber) A.Massal.

candidum (Weber) A.Massal., Thalloidima

canella Nyl., Verrucaria = Placopyrenium canellum (Nyl.) Gueidan & Cl.Roux

canellum (Nyl.) Gueidan & Cl.Roux, Placopyrenium

canescens (Dicks.) De Not., Buellia = Diploicia canescens (Dicks.) A.Massal.

canescens (Dicks.) A.Massal., Diploicia

canescens (Dicks.) Flot., Diplotomma = Diploicia canescens (Dicks.) A.Massal.

canescens (Domb.) Domb., Umbilicaria = Umbilicaria cylindrica (L.) Delise ex Duby var. delisei Nyl

canina (L.) Willd., Peltigera

caninae (W. Phillips & Plowr.) Sacc., Leptosphaeria = Pyrenidium actinellum Nyl.

caperata sensu Vain., Cetraria = Vulpicida pinastri (Scop.) J.-E.Mattsson & M.J.Lai

caperata (L.) Hale, Flavoparmelia

caperata (L.) Ach., Parmelia = Flavoparmelia caperata (L.) Hale

caperata (L.) Hale, Pseudoparmelia = Flavoparmelia caperata (L.) Hale

capillaris (Ach.) Cromb., Alectoria = Bryoria capillaris (Ach.) Brodo & D.Hawksw.

capillaris (Ach.) Brodo & D.Hawksw., Bryoria

capillaris Motyka, Usnea = Usnea dasopoga (Ach.) Nyl.

capitata Lynge, Cetraria = Cetraria nigricans Nyl.

capitata (Michx.) Spreng., Cladonia = Cladonia peziziformis (With.) J.R.Laundon

capitata M.Svensson & G.Thor, Micarea

capitata (Ach.) Nyl., Ramalina

capitellatum H.Magn., Stereocaulon

capitulata Th.Fr., Catillaria = Catillaria stereocaulorum (Th.Fr.) H.Olivier.

caprinus (Th.Fr.) H.Magn., Baeomyces = Baeomyces carneus Flörke

caradocensis (Leight. ex Nyl.) P.James & Gotth. Schneid., Hypocenomyce = Xylopsora caradocensis (Nyl.) Bendiksby & Timdal

caradocensis (Nyl.) J.Lahm, Toninia = Xylopsora caradocensis (Nyl.) Bendiksby & Timdal

caradocensis (Nyl.) Bendiksby & Timdal, Xylopsora

carbonella Nyl. ex Hulting, Verrucaria

cargillianum (Lindsay) D.Hawksw., Lichenoconium

carinthiaca J.Steiner, Arthopyrenia = Anisomeridium carinthiacum (J.Steiner) R.C.Harris

carinthiaca (J.Steiner) R.C.Harris, Ditremis = Anisomeridium carinthiacum (J.Steiner) R.C.Harris

carinthiaca (J.Steiner) Keissl., Paraphysothele = Anisomeridium carinthiacum (J.Steiner) R.C.Harris

carinthiacum (J.Steiner) R.C.Harris, Anisomeridium

cariosa (Ach.) Spreng., Cladonia

cariosa var. corticata Vain., Cladonia = Cladonia symphycarpa (Flörke) Fr.

carneoalbida (Müll.Arg.) Coppins, Bacidia = Mycobilimbica carneoalbida (Müll.Arg.) S.Ekman & Printzen

carneoalbida (Müll.Arg.) Coppins, Biatora = Mycobilimbica carneoalbida (Müll.Arg.) S.Ekman & Printzen

carneoalbida (Müll.Arg.) S.Ekman & Printzen, Mycobilimbica

carneobrunneola Coppins, Arthopyrenia

carneoglauca (Nyl.) A.L.Smith, Bacidia = Aquacidia antricola (Hulting) Aptroot

carneoglauca Nyl., Lecidea = Aquacidia antricola (Hulting) Aptroot

carneola (Fr.) Fr., Cladonia

carneola (Ach.) Hellb., Gyalecta

carneola (Ach.) Arnold, Pachyphiale = Gyalecta
carneola (Ach.) Hellb.

carneolutea (Turner) A.Massal., Cryptolechia

carneolutea (Turner) H.Olivier, Gyalecta =
Cryptolechia carneolutea (Turner) A.Massal.

carneolutea sensu Zahlbr., Pertusaria = Pertusaria
carneopallida (Nyl.) Anzi ex Nyl.

carneonivea (Anzi) Scheid., Anzina

carneonivea (Anzi) Vain., Pertusaria = Anzina
carneonivea (Anzi) Scheid.

carneonivea (Anzi) Erichsen, Varicellaria = Anzina
carneonivea (Anzi) Scheid.

carneopallida (Müll.Arg.) Coppins, Bacidia =
Mycobilimbia carnealbida (Müll.Arg.) S.Ekman &
Printzen

carneopallida (Nyl.) Anzi ex Nyl., Pertusaria

carneopallida (Räsänen) T.Sprib., Xylographa

carneum Fr., Illosporium

carneus Flörke, Baeomyces

carnosa (Dicks.) Körb., Massalongia

carnosula (Arnold) Lutzoni, Hymenelia

carnosula (Arnold) Arnold, Ionaspis = Hymenelia
carnosula (Arnold) Lutzoni

carpathica (Körb.) Szatala, Lecidea = Lecidella
carpathica Körb.

carpathica Körb., Lecidella

carpaticum Runemark, Rhizocarpon

carpineae (L.) Vain., Lecanora

carpineae (A.Massal.) Zahlbr., Porina =
Pseudosagedia aenea (Wallr.) Hafellner & Kalb.

carpineae A.Massal., Sagedia = Pseudosagedia aenea
(Wallr.) Hafellner & Kalb.

carpineae Pers. ex Ach., Verrucaria = Pseudosagedia
aenea (Wallr.) Hafellner & Kalb.

carpoides Timdal, Lecanora

carthusiae (Harm.) Lettau, Chaenotheca =
Chaenotheca chlorella (Ach.) Müll.Arg.

cartilaginea Lönnr., Biatora = Bryobilimbia
sanguineoatra (Wulfen) Fryday et al.

cartilaginea (Lilj.) Ach., Lecanora =
Protoparmeliopsis achariana (A.L.Sm.) Moberg & R.
Sant.

cartilaginea (Nyl.) Vain., Placidiopsis = Placidiopsis
custnani (A.Massal.) Körber

cartilaginea (With.) P.James, Squamarina

cartilagineum (Nyl.) Zahlbr., Dermatocarpon =
Catapyrenium daedaleum (Kremp.) Stein

cartilagineus With., Lichen = Squamarina
cartilaginea (With.) P.James

casimirii Müll.Arg., Lecidea = Lecidea tessellata
Flörke var. caesia (Anzi) Arnold

castanea (Hepp) Poelt, Bryonora

castanea (Hepp) Th.Fr., Lecanora = Bryonora
castanea (Hepp) Poelt

castanea f. curvescens (Mudd) Th.Fr., Lecanora =
Bryonora curvescens (Mudd) Poelt

castanea var. pruinosa Th.Fr., Lecanora = Bryonora
pruinosa (Th.Fr.) Holt.-Hartw.

castaneocarpa M.Westb. & Wedin, Acarospora

castaneocinerea (Räsänen) Timdal, Hypocenomyce =
Carbonicola myrmecina (Ach.) Bendiksby & Timdal

castaneoides H.Magn., Lecanora

castanomela (Nyl.) Arnold, Rinodina

castanomelodes H.Mayrhofer & Poelt, Rinodina

castellana (Räsänen) Poelt, Caloplaca = Pachypeltis
castellana (Räsänen) Søchting et al.

castellana (Räsänen) Søchting et al., Pachypeltis

castellanum Räsänen, Placodium = Pachypeltis
castellana (Räsänen) Søchting et al.

catalepta, Staurothele = Staurothele frustulenta Vain.

cataleptoides (Nyl.) Nyl., Verrucaria = Verrucaria
aethiobola Wahlenb.

catapyrenii Zhurb. et al., Llimoniella

catapyrenii Cl.Roux & Triebel, Stigmatidium =
Epibryon conductrix (Norman) Nik.Hoffmann &
Hafellner

cataractae Savić & Tibell, Polyblastia

cataractarum (Hepp) Lönnr., Thelidium = Thelidium fontigenum A.Massal.

catarrhapha (Vain.) H.Olivier, Opegrapha

cateilea (Ach.) A.Massal., Lecanora

cateilea f. carneoalbicans Vain., Lecanora = Lecanora cateilea (Ach.) A.Massal.

cateilea f. lividocarpa Vain., Lecanora = Lecanora cateilea (Ach.) A.Massal.

cateilea f. pallidotestacea Vain., Lecanora = Lecanora cateilea (Ach.) A.Massal.

catharinae Räsänen, Alectoria = Bryoria implexa (Hoffm.) Brodo & D.Hawksw.

catolechia Zopf, Phaeospora

caucasica Vain., Usnea = Usnea barbata (L.) Weber ex F.H.Wigg.

caudata auct., Cercidospora = Cercidospora xanthoriae (Wedd) R.Sant.

caudata Kernst., Cercidospora

caudata Nyl., Lecidea = Ropalospora lugubris (Sommerf.) Poelt

caudata (Nyl.) Arnold, Toninia = Ropalospora lugubris (Sommerf.) Poelt

cavata (Ach.) R.C.Harris, Acrocordia

cavernarum Räsänen, Biatora = Lecidea cavernarum (Räsänen) H.Magn.

cavernarum (Räsänen) H.Magn., Lecidea

cavernarum Pykälä & Myllys, Verrucaria

cavicola Creveld, Lecanora

cecidiiiformans Grube & Hafellner, Cercidospora

celata Döbbele & Poelt, Absconditella

celata Th.Fr., Caloplaca

celata Slavíková, Lepraria

celata J.C.Zamora et al., Tremella

cellulosa S.Hughes, Monodictys

cembrina (Anzi) Grummann ex D.Hawksw., Arthopyrenia = Naetrocymbe punctiformis (Pers.) R.C.Harris

cenisia Ach., Lecanora

cenisia var. atrynea (Ach.) H.Magn., Lecanora = Lecanora cenisia Ach.

cenisia var. sublutea Th.Fr., Lecanora = Lecanora cenisia Ach.

cenotea (Ach.) Schaer., Cladonia

centrifuga (L.) Hale, Arctoparmelia

centrifuga A.Massal., Opegrapha = Opegrapha rupestris Pers.

centrifuga (L.) Ach., Parmelia = Arctoparmelia centrifuga (L.) Hale

centrifuga f. aleuritica (Nyl.) H.Olivier, Parmelia = Arctoparmelia centrifuga (L.) Hale

centrifuga var. monticola Räsänen, Parmelia = Arctoparmelia centrifuga (L.) Hale

centrifuga (L.) Hale, Xanthoparmelia = Arctoparmelia centrifuga (L.) Hale

cephalocrustatum McCune et al., Stereocaulon

cephalodioides Nyl., Agyrium = Phacopsis cephalodioides (Nyl.) Triebel & Rambold

cephalodioides (Nyl.) Triebel & Rambold, Phacopsis

cephalodiorum Triebel & Grube in Triebel, Cercidospora = Collemopsidium cephalodiorum (Triebel & Grube) Grube

cephalodiorum (Triebel & Grube) Grube, Collemopsidium

ceracea Arnold, Aspicilia = Ionaspis ceracea (Arnold) Jatta

ceracea (Arnold) M.Choisy, Hymenelia = Ionaspis ceracea (Arnold) Jatta

ceracea (Arnold) Jatta, Ionaspis

ceracea (Arnold) Stizenb., Lecanora = Ionaspis ceracea (Arnold) Jatta

ceranisca (Nyl.) Otálora et al., Rostania

ceraniscum Nyl., Collema = Rostania ceranisca (Nyl.) Otálora et al.

ceranoides Borrer, Collema = Enchylium tenax (Sw.) Gray

cerasi (Schrad.) A.Massal., Arthopyrenia

cerasi (Schrad.) Vain., *Metasphaeria* = *Arthopyrenia*

cerasi (Schrad.) A.Massal.

cerasphora Vain., *Cladonia* = *Cladonia stricta* (Nyl.) Nyl.

ceratea (Ach.) Zopf, *Parmelia* = *Pseudevernia furfuracea* (L.) Zopf

ceratea f. *cylindricodigitellata* Gyeln., *Parmelia* = *Pseudevernia furfuracea* (L.) Zopf

ceratina Ach., Usnea

ceratites (Wahlenb.) Sommerf., *Pycnothele* = *Siphula ceratites* (Wahlenb.) Fr.

ceratites (Wahlenb.) Fr., Siphula

cereolinum Ach., *Stereocaulon* = *Pilophorus cereolus* (Ach.) Hellb.

cereolus (Ach.) Hellb., Pilophorus

cereolus f. *distans* (Hulting) H.Magn., *Pilophorus* = *Pilophorus strumaticus* Nyl. ex Cromb.

cerina (Hedw.) Th.Fr., Caloplaca

cerina var. *aractina* (Fr.) Th.Fr., *Caloplaca* = *Caloplaca aractina* (Fr.) Häyren

cerina var. *chlorina* (Flot.) Müll.Arg., *Caloplaca* = *Caloplaca chlorina* (Flot.) H.Olivier

cerina var. *chloroleuca* (Sm.) Th.Fr., *Caloplaca* = *Caloplaca stillicidiorum* (Vahl) Lyngé

cerina var. *ehrhartii* (Schaer.) Trevis., *Caloplaca* = *Caloplaca cerina* (Hedw.) Th.Fr.

cerina var. *sorocarpa* Vain., *Caloplaca* = *Caloplaca sorocarpa* (Vain.) Zahlbr.

cerinae Cl.Roux & Triebel, Stigmatidium

cerinella (Nyl.) Arup et al., Athallia

cerinella (Nyl.) Flagey, *Caloplaca* = *Athallia*

cerinella (Nyl.) Arup et al.

cerinella (Flörke) Zahlbr., *Candelariella* = *Candelariella aurella* (Hoffm.) Zahlbr.

cerinelloides (Erichsen) Arup et al., Athallia

cerinelloides (Erichsen) Poelt, *Caloplaca* = *Athallia*

cerinelloides (Erichsen) Arup et al.

cerinum sensu Räsänen, *Calloposma* = *Athallia pyracea* (Ach.) Arup et al.

cernohorskyi sensu Henssen & Jørgensen, *Anema* = *Anema tumidulum* Henssen ex P.M.Jørg. et al.

cervicornis (Ach.) Flot., Cladonia

cervicornis var. *verticillata* (Hoffm.) Flot., *Cladonia* = *Cladonia verticillata* (Hoffm.) Schaer.

cervina A.Massal., Acarospora

cervina Lönnr., *Toninia* = *Toniniopsis verrucarioides* (Nyl.) Kistenich et al.

cervinula auct. scand., *Placidiopsis* = *Placidiopsis pseudocinerea* Breuss

cesareensis Nyl., Opegrapha

ceptrariae Kotte, Abrothallus

ceptrariae (Bres.) Höhn., *Lichenopeltella* = *Lichenopeltella ceptariicola* (Nyl.) R.Sant.

ceptrariae Bres., *Microthyrium* = *Lichenopeltella ceptariicola* (Nyl.) R.Sant.

ceptrariellae Millanes et al., Tremella

ceptrariicola Linds., *Lecidea* = *Bachmanniomyces punctum* (A.Massal.) Diederich & Pino-Bodas

ceptrariicola (Nyl.) R.Sant., Lichenopeltella

ceptrariicola (Nyl.) Vain., *Micropeltopsis* = *Lichenopeltella ceptariicola* (Nyl.) R.Sant.

ceptrariicola (Linds.) Arnold, *Nesolechia* = *Bachmanniomyces punctum* (A.Massal.) Diederich & Pino-Bodas

ceptrariicola (Nyl.) Keissl., *Phragmothyrium* = *Lichenopeltella ceptariicola* (Nyl.) R.Sant.

ceptrariicola Nyl., *Sphaeria* = *Lichenopeltella ceptariicola* (Nyl.) R.Sant.

ceptrariicola Diederich & Coppins, Tremella

ceptrariicola (Nyl.) D.Hawksw., *Trichothyria* = *Lichenopeltella ceptariicola* (Nyl.) R.Sant.

ceptrarioides (Duby) W.L.Culb. & C.F.Culb., Cetrelia

ceptrarioides (Duby) Nyl., *Parmelia* = *Cetrelia ceptarioides* (Duby) W.L.Culb. & C.F.Culb.

ceuthocarpa Wahlenb., Verrucaria

- chaetophora Stirt., Usnea = Usnea dasopoga (Ach.) Nyl.
- chalazanodes (Nyl.) Zahlbr., Lempholemma = Lempholemma polyanthes (Bernh.) Malme
- chalazanodes (Nyl.) Arnold, Physma = Lempholemma polyanthes (Bernh.) Malme
- chalazanum (Ach.) B.de Lesd., Lempholemma**
- chalazanum (Ach.) Arnold, Physma = Lempholemma chalazanum (Ach.) B.de Lesd.
- chalcophila H.Magn., Acarospora = Acarospora rugulosa KÖrb.
- chalybaea (Fr.) Müll.Arg., Caloplaca = Pyrenodesmia chalybaea (Fr.) A.Massal.
- chalybaea (Fr.) A.Massal., Pyrenodesmia**
- chalybeia (Borrer) A.Massal., Catillaria**
- chalybeia f. achlora Vain., Catillaria = Catillaria chalybeia (Borrer) A.Massal.
- chalybeia (Borrer) A.Massal. var. chalybeia, Catillaria**
- chalybeia (Borrer) A.Massal. var. chloropoliza (Nyl.) H.Kiliias, Catillaria**
- chalybeiformis (L.) Gray, Alectoria = Bryoria fuscescens (Gyeln.) Brodo & D.Hawksw.
- chalybeiformis (L.) Brodo & D.Hawksw., Bryoria = Bryoria fuscescens (Gyeln.) Brodo & D.Hawksw.
- chalybeioides (Nyl.) Zahlbr., Catillaria = Claurouxia chalybeioides (Nyl.) D.Hawksw.
- chalybeioides (Nyl.) D.Hawksw., Claurouxia**
- chalybeioides Nyl., Lecidea = Claurouxia chalybeioides (Nyl.) D.Hawksw.
- chalybeioides (Nyl.) Clauzade & Cl.Roux, Pseudolecidea = Claurouxia chalybeioides (Nyl.) D. Hawksw.
- chalybeiza Nyl., Lecidea = Micarea erratica (KÖrb.) Hertel et al.
- cheileum (Ach.) Ach., Collema = Blennothallia crispa (Huds.) Otálora et al.
- chevallieri Leight., Opegrapha = Arthonia calcarea (Turner ex Sm.) Ertz & Diederich
- chinense auct., Parmotrema = Parmotrema perlatum (Huds.) M.Choisy
- chiodectonoides Bagl. ex A.Massal., Pertusaria**
- chiomela (Norman) Zahlbr., Porina = Eopyrenula leucoplaca (Wallr.) R.C.Harris
- chionea (Th.Fr.) Sheard, Buellia**
- chionea sensu DC., Pertusaria = Pertusaria areolata (Ach.) A.Massal.
- chionea Th.Fr., Rinodina = Buellia chionea (Th.Fr.) Sheard
- chionea Ach., Thelotrema = Pertusaria pertusa (Weigel) Tuck. var. pertusa
- chioneodes Erichsen, Pertusaria = Pertusaria pertusa (Weigel) Tuck. var. pertusa
- chioneum (Norman) Th.Fr., Rhizocarpon**
- chionophila subsp. inarenis Vain., Lecidea = Rhizocarpon inarense (Vain.) Vain.
- chionophiloides (Vain.) Vain., Rhizocarpon = Rhizocarpon eupetraeoides (Nyl.) Blomb. & Forssell
- chionophilum sensu Vain., Rhizocarpon = Rhizocarpon inarense (Vain.) Vain.
- chionophilum Th.Fr., Rhizocarpon = Rhizocarpon alpicola (Anzi) Rabenh.
- chlarona (Ach.) Nyl., Lecanora = Lecanora pulicaris (Pers.) Ach.
- chlarotera Nyl., Lecanora**
- chlorella (Ach.) Müll.Arg., Chaenotheca**
- chlorella auct., Chaenotheca = Chaenotheca phaeocephala (Turner) Th.Fr.
- chlorella var. ecrustacea f. macrocalyptra Räsänen, Chaenotheca = Chaenotheca phaeocephala (Turner) Th.Fr.
- chlorella var. hispidula (Ach.) Vain., Chaenotheca = Chaenotheca hispidula (Ach.) Zahlbr.
- chlorella var. hispidula f. granulans Vain., Chaenotheca = Chaenotheca subroscida (Eitner) Zahlbr.
- chlorella var. obscura (Nyl.) Vain., Chaenotheca = Chaenotheca phaeocephala (Turner) Th.Fr.

chlorella var. phaeocephala (Turner) Vain.,
Chaenotheca = Chaenotheca phaeocephala (Turner)
Th.Fr.

chlorina (Flot.) H.Olivier, Caloplaca

chlorina (Ach.) J.R.Laundon, Chrysothrix

chlorina (Ach.) Ach., Lepraria = Chrysothrix
chlorina (Ach.) J.R.Laundon

chlorinum auct., Calicium = Calicium corynellum
(Ach.) Ach.

chlorocarpa Vain. nom. nud., Lecanora = Lecanora
leptacina Sommerf.

chlorococca (Graewe ex Stenh.) Lettau, Bacidia =
Scoliciosporum chlorococcum (Graewe ex Stenh.)
Vězda

chlorococca (Leight.) Diederich & Sérus.,
Lauderlindsaya = Normandina acroglypta (Norman)
Aptroot

**chlorococcum (Graewe ex Stenh.) Vězda,
Scoliciosporum**

chloroconia (Tuck.) Egea & Torrente, Cresponea

chloroleprosa (Vain.) H.Magn., Lecanora

chloroleuca Körb., Buellia = Tetramelas
chloroleucus (Körb.) A.Nordin

chloroleucus (Körb.) A.Nordin, Tetramelas

chlorophaea (Hepp ex Leight.) Lettau, Buellia =
Diplotomma alboatrum (Hoffm.) Flot.

**chlorophaea (Flörke ex Sommerf.) Spreng.,
Cladonia**

chlorophaeodes Nyl., Lecanora

chlorophaeodes subsp. chloroleprosa Vain., Lecanora
= Lecanora chloroleprosa (Vain.) H.Magn.

chlorophana (Wahlenb.) A.Massal., Acarospora =
Pleopsisidium chlorophanum (Wahlenb.) Zopf

chlorophana f. dissoluta H.Magn., Acarospora =
Pleopsisidium flavum (Bellardi) Körb.

chlorophanum (Wahlenb.) Zopf, Pleopsisidium

chlorophylla (Willd.) Vain., Cetraria =
Tuckermannopsis chlorophylla (Willd.) Hale

chlorophylla (Willd.) Divakar et al., Nephromopsis =
Tuckermannopsis chlorophylla (Willd.) Hale

**chlorophylla (Willd.) Hale, Tuckermannopsis =
Tuckermannopsis chlorophylla (Willd.) Hale**

chlorophylla (Willd.) Hale, Tuckermannopsis

chloropolia (Erichsen) Almb., Lecanora = Loxospora
elatina (Ach.) A.Massal.

chloropolia auct., Lecanora = Pertusaria pupillaris
(Nyl.) Th.Fr.

chloropolia (Erichsen) Almb. f. maculata Almb.,
Lecanora = Lecanora impudens Degel.

chloropolia Erichsen, Pertusaria = Loxospora elatina
(Ach.) A.Massal.

chloropolia auct., Pertusaria = Pertusaria pupillaris
(Nyl.) Th.Fr.

chlorothella (Nyl.) Zahlbr., Porina = Pseudosagedia
chlorotica (Ach.) Hafellner & Kalb

chlorotica sensu Th.Fr., Bacidia = Lecania cuprea
(A.Massal.) van den Boom & Coppins

chlorotica (A.Massal.) Zahlbr., Bacidia = Bacidina
phacodes (Körb.) Vězda

chlorotica (Ach.) Müll.Arg., Porina = Pseudosagedia
chlorotica (Ach.) Hafellner & Kalb

chlorotica var. carpinea (A.Massal.) Keissl., Porina =
Pseudosagedia aenea (Wallr.) Hafellner & Kalb.

chlorotica var. linearis (Leight.) A.L.Sm., Porina =
Pseudosagedia linearis (Leight.) Hafellner & Kalb

chlorotica var. persicina (Körb.) Zahlbr., Porina =
Pseudosagedia linearis (Leight.) Hafellner & Kalb

**chlorotica (Ach.) Hafellner & Kalb,
Pseudosagedia**

chlorotica Leight., Verrucaria = Normandina
acroglypta (Norman) Aptroot

chlorotica subsp. leucotica Nyl., Verrucaria =
Pseudosagedia linearis (Leight.) Hafellner & Kalb

chloroticella (Nyl.) Zahlbr., Catillaria

chloroticella Nyl., Lecidea = Catillaria chloroticella
(Nyl.) Zahlbr.

chloroticula (Nyl.) A.L.Sm., Bacidia = Bacidina
chloroticula (Nyl.) Vězda & Poelt

chloroticula (Nyl.) Vězda & Poelt, Bacidina

chloroticum (Ach.) R.C.Harris, Trichothelium =
Pseudosagedia chlorotica (Ach.) Hafellner & Kalb

**chondrodes (A.Massal.) Clauzade & Cl.Roux,
Clauzadea**

christiansenii D.Hawksw., Bispora = Intralichen
christiansenii (D.Hawksw.) D.Hawksw. & M.S.Cole

christiansenii B.L.Brady & D.Hawksw., Hobsonia =
Illosporiosis christiansenii (B.L.Brady & D.
Hawksw.) D.Hawksw.

**christiansenii (B.L.Brady & D.Hawksw.) D.
Hawksw., Illosporiosis**

**christiansenii (D.Hawksw.) D.Hawksw. & M.S.
Cole, Intralichen**

**christiansenii Alstrup & D.Hawksw., Taeniolella
christiansenii Diederich, Tremella**

christiansenii Servít, Verrucaria = Verrucaria
sparsiuscula Nyl.

**chrysantha (Tuck.) W.L.Culb. & C.F.Culb.,
Asahinea**

chrysantha (Zahlbr.) Printzen, Biatora

chrysantha Tuck., Cetraria = Asahinea chrysantha
(Tuck.) W.L.Culb. & C.F.Culb.

chrysantha Zahlbr., Lecidea = Biatora chrysantha
(Zahlbr.) Printzen

chrysanthoides Printzen & Tønsberg, Biatora

**chrysocephala (Turner ex Ach.) Th.Fr.,
Chaenotheca**

chrysojeta (Vain. ex Räsänen) Dombr., Caloplaca =
Leproplaca chrysojeta (Räsänen) J.R.Laundon

chrysojeta (Räsänen) J.R.Laundon, Leproplaca

chrysoleuca (Sm.) Ach., Lecanora = Rhizoplaca
chrysoleuca (Sm.) Zopf

chrysoleuca (Sm.) Zopf, Rhizoplaca

chrysoleuca var. subdiscrepans Nyl., Squamaria =
Rhizoplaca subdiscrepans (Nyl.) R.Sant.

chrysophaea (Pers.) Vězda, Ramonia

chrysophaea (Pers.) Pers., Stictis = Ramonia
chrysophaea (Pers.) Vězda

chrysophana (Körb.) Stein, Ionaspis = Ionaspis
suaveolens (Fr.) Th.Fr. ex Stein

chrysophthalma Degel., Caloplaca = Solitaria
chrysophthalma (Degel.) Arup et al.

**chrysophthalma (P.James) P.James & J.R.
Laundon, Chrysothrix**

chrysophthalma auct. p. p., Chrysothrix =
Chrysothrix flavovirens Tønsberg

chrysophthalma P.James, Micarea = Chrysothrix
chrysophthalma (P.James) P.James & J.R.Laundon

chrysophthalma (Degel.) Arup et al., Solitaria

chrysophthalmae D.Hawksw., Minutophoma

chrysothricis Diederich, Taeniolella =

chrysothricis Diederich, Taeniolella

chthonoblastes A.Braun ex Kütz., Stereonema =
Placynthiella uliginosa (Schrad.) Coppins & P.James

ciliaris (L.) Körb., Anaptychia

ciliaris subsp. mamillata (Taylor) D.Hawksw. & P.
James, Anaptychia = Anaptychia ciliaris (L.) Körb.

ciliaris f. melanosticta (Ach.) Harm., Anaptychia =
Anaptychia ciliaris (L.) Körb.

ciliaris var. melanosticta (Ach.) Boistel, Anaptychia
= Anaptychia ciliaris (L.) Körb.

ciliaris Ach., Cetraria = Tuckermannopsis ciliaris
(Ach.) Gyeln.

ciliaris (Ach.) Hue, Nephromopsis =
Tuckermannopsis ciliaris (Ach.) Gyeln.

ciliaris f. melanosticta (Ach.) Th.Fr., Physcia =
Anaptychia ciliaris (L.) Körb.

ciliaris var. scopulorum E.Nyl., Physcia =
Anaptychia ciliaris (L.) Körb.

ciliaris (Ach.) Gyeln., Tuckermannopsis

ciliata (Stirt.) Trass, Cladina = Cladonia ciliata Stirt.

ciliata var. tenuis (Flörke) Ahti & M.J.Lai, Cladina =
Cladonia ciliata Stirt.

ciliata Stirt., Cladonia

ciliata Stirt. f. ciliata, Cladonia = Cladonia ciliata
Stirt.

ciliata Stirt. f. flavicans (Flörke) Ahti & DePriest,
Cladonia = Cladonia ciliata Stirt.

ciliata var. tenuis (Flörke) Ahti, Cladonia = Cladonia
ciliata Stirt.

ciliata Kalb, Cornutispora

ciliata (Hoffm.) Moberg, Phaeophyscia

ciliata (Hoffm.) Du Rietz, Physcia = Phaeophyscia
ciliata (Hoffm.) Moberg

ciliata Taylor, Sticta

cimbrica Th.Fr. in Grønlund nom, Microglaena =
Thelenella muscorum (Fr.) Vain. var. octospora
(Nyl.) Coppins & Fryday

cincinnata (Fr.) Lyngé, Alectoria = Alectoria
sarmentosa (Ach.) Ach. subsp. vexillifera (Nyl.) D.
Hawksw.

cincta Hepp, Verrucaria

cinerascens (Nyl.) Vain., Mycocalicium =
Chaenothecopsis viridialba (Kremp.) A.F.W.Schmidt

cinerea (L.) Körb., Aspicilia

cinerea var. atroalba Räsänen, Aspicilia = Aspicilia
cinerea (L.) Körb.

cinerea var. badia Räsänen, Aspicilia = Aspicilia
cinerea (L.) Körb.

cinerea var. laevata f. athallina Nyl., Aspicilia =
Aspicilia laevata (Ach.) Arnold

cinerea var. macrocarpa Räsänen, Aspicilia =
Aspicilia cinerea (L.) Körb.

cinerea var. myrinii (Fr.) Th.Fr., Aspicilia =
Aspilidea myrinii (Fr.) Hafellner

cinerea var. sallensis Räsänen, Aspicilia = Aspilidea
myrinii (Fr.) Hafellner

cinerea (Schaer.) Trevis., Bacidia = Micarea cinerea
(Schaer.) Hedl.

cinerea Norman, Beloniella = Gyalecta russula
(Körb. ex Nyl.) Baloch et al.

cinerea (Pers.) Tibell, Chaenotheca

cinerea (L.) Sommerf., Lecanora = Aspicilia cinerea
(L.) Körb.

cinerea (Schaer.) Hedl., Micarea

cinerea Chevall., Opegrapha = Opegrapha vulgata
(Ach.) Ach.

cinerea (Schaer.) Körb., Sporastatia = Sporastatia
polyspora (Nyl.) Grummann

cinerea var. amphibola Ach., Urceolaria = Circinaria
caesiocinerea (Nyl. ex Malbr.) A.Nordin et al.

cinereoatra (Ach.) Hertel, Huilia = Porpidia
cinereoatra (Ach.) Hertel & Knoph

cinereoatra Ach., Lecidea = Porpidia cinereoatra
(Ach.) Hertel & Knoph

cinereoatra (Ach.) Hertel & Knoph, Porpidia

cinereoatra Zschacke, Verrucaria = Placopyrenium
cinereoatratum (Degel.) Orange

cinereoatrata Degel., Verrucaria = Placopyrenium
cinereoatratum (Degel.) Orange

cinereoatratum (Degel.) Orange, Placopyrenium

cinereoatrum (Ach.) M.Choisy, Haplocarpon =
Porpidia cinereoatra (Ach.) Hertel & Knoph

cinereofusca H.Magn., Lecanora

cinereolurida Vain., Verrucaria

cinereonigrum Vain., Rhizocarpon

cinereopallens Vain., Lecidea = Micarea denigrata
(Fr.) Hedl.

cinereopruinosa Schaer., Arthonia

**cinereopruinosa (Schaer.) A.Massal.,
Arthopyrenia**

cinereorufa Schaer., Lecidea = Schaereria
cinereorufa (Schaer.) Th.Fr.

cinereorufa (Schaer.) Hellb., Psora = Schaereria
cinereorufa (Schaer.) Th.Fr.

cinereorufa (Schaer.) Th.Fr., Schaereria

cinereorufa Schaer., Verrucaria

cinereorufescens (Ach.) A.Massal., Aspicilia =
Bellemeria cinereorufescens (Ach.) Clauzade & Cl.
Roux

cinereorufescens var. continua Räsänen, Aspicilia =
Bellemeria cinereorufescens (Ach.) Clauzade & Cl.
Roux

cinereorufescens var. maritima Räsänen, *Aspicilia* =
Bellemerea cinereorufescens (Ach.) Clauzade & Cl.
Roux

cinereorufescens var. obscura Räsänen, *Aspicilia* =
Bellemerea cinereorufescens (Ach.) Clauzade & Cl.
Roux

**cinereorufescens (Ach.) Clauzade & Cl.Roux,
Bellemerea**

cinereorufescens (Schaer.) Schol., *Gyrophora* =
Umbilicaria cinereorufescens (Schaer.) Frey

cinereorufescens (Ach.) Hepp, *Lecanora* =
Bellemerea cinereorufescens (Ach.) Clauzade & Cl.
Roux

cinereorufescens var. diamarta (Ach.) Nyl., *Lecanora*
= *Bellemerea diamarta* (Ach.) Hafellner & Cl.Roux

cinereorufescens (Schaer.) Frey, Umbilicaria

cinereovirens (Müll.Arg.) Vain., Rhizocarpon

cinereovirens (Vain.) Vain., Rinodina

cinereovirens (Schaer.) A.Massal., Toninia

cinereovirens var. verruculosa Th.Fr., *Toninia* =
Toninia squalida (Ach.) A.Massal.

cinereum auct., *Calicium* = *Chaenotheca trichialis*
(Ach.) Th.Fr.

cinereum (Pers.) Körb., Catapyrenium

cinereum (Pers.) Th.Fr., *Dermatocarpon* =
Catapyrenium cinereum (Pers.) Körb.

cinereum var. cartilagineum Nyl., *Endocarpon* =
Placidiopsis custnani (A.Massal.) Körber

cinnabarina (DC.) Wallr., *Arthonia* = *Coniocarpon*
cinnabarinum DC.

cinnabarina f. cuspidans Nyl., *Arthonia* =
Coniocarpon cuspidans (Nyl.) Moen et al.

cinnabarina Sommerf., *Lecidea* = *Ramboldia*
cinnabarina (Sommerf.) Kalb et al.

cinnabarina (Sommerf.) Räsänen, *Protoblastenia* =
Ramboldia cinnabarina (Sommerf.) Kalb et al.

cinnabarina (Sommerf.) M.Choisy, *Pyrrhospora* =
Ramboldia cinnabarina (Sommerf.) Kalb et al.

cinnabarina (Sommerf.) Kalb et al., Ramboldia

cinnabarinum DC., Coniocarpon

cinnamomea (Th.Fr.) H.Olivier, *Caloplaca* =
Blastenia ammiospila (Wahlenb.) Arup et al.

cinnamomea Flörke ex Hellb., *Lecidea* = *Lecidella*
stigmatea (Ach.) Hertel & Leuckert

cinnamomea (Th.Fr.) Räsänen, *Rinodina* = *Rinodina*
mniaroea (Ach.) Körb. var. *cinnamomea* Th.Fr.

circinata Th.Fr., Arthonia

circinata (Pers.) Ach., *Lecanora* = *Lobothallia*
radiosa (Hoffm.) Hafellner

circularis (H.Magn.) Oxner, *Aspicilia*

circularis H.Magn., *Lecanora* = *Aspicilia circularis*
(H.Magn.) Oxner

circularis Blomb. & Th.Fr. ex Th.Fr., Polyblastia

circumborealis Brodo & Vitik., Lecanora

circumcisa H.Magn., *Lecidea* = *Tremolecia atrata*
(Ach.) Hertel

circumdiluta Nyl., *Lecidea* = *Lecanora sulphurea*
(Hoffm.) Ach.

circummunita H.Magn., *Lecidea* = *Miriquidica*
pulvinatula (Arnold) Hertel & Rambold

circumnigrata var. *circumnigrata*, *Lecidea* =
Miriquidica pulvinatula (Arnold) Hertel & Rambold

circumnigrata var. *reagens* H.Magn., *Lecidea* =
Miriquidica lulensis (Hellb.) Hertel & Rambold

circumspecta (Nyl. ex Vain.) Malme, *Bacidia* =
Scutula circumspecta (Vain.) Kistenich et al.

circumspecta (Vain.) Kistenich et al., Scutula

cirrochroa auct., *Umbilicaria* = *Umbilicaria spodochroa*
(Hoffm.) DC.

cirrochroa (Ach.) Th.Fr., *Caloplaca* = *Leproplaca*
cirrochroa (Ach.) Arup et al.

cirrochroa (Ach.) Arup et al., Leproplaca

citrina (Hoffm.) Th.Fr., *Caloplaca* = *Flavoplaca*
citrina (Hoffm.) Arup et al.

citrina (Hoffm.) Arup et al., Flavoplaca

citrina (Pers.) Lücking et al., Pseudocyphellaria

citrina Pers., *Sticta* = *Pseudocyphellaria citrina*
(Pers.) Lücking et al.

citrinella (Ach.) Poelt, Arthrorthaphis

citrinella (Ach.) Branth & Rostr., *Bacidia* =
Arthrorhaphis citrinella (Ach.) Poelt

citrinella subsp. *alpina* (Schaer.) J.R.Laundon,
Bacidia = *Arthrorhaphis alpina* (Schaer.) R.Sant.

citrinellus Ach., Lichen = *Arthrorhaphis citrinella*
(Ach.) Poelt

citrinescens* P.James & Coppins, *Coccotrema

cladinicola* Alstrup, *Taeniolella

cladodes* (Tuck.) Zahlbr., *Lempholemma

cladonema* (Wedd.) D.Hawksw., *Clypeococcum

cladonema (Wedd.) Theiss. & Syd., *Phaeodotis* =
Clypeococcum cladonema (Wedd.) D.Hawksw.

cladoniae R.Sant. & D.Hawksw., *Abrothallus*

cladoniae (Anzi) Keissl., *Adelococcus* =
Roselliniella cladoniae (Anzi) Matzer & Hafellner

cladoniae* Keissl., *Echinothecium

cladoniae (Allesch. & Schnabl) Keissl., *Phoma* =
Lichenosticta alcornaria (Linds.) D.Hawksw.

cladoniae* R.Sant., *Plectocarpon

cladoniae* (Anzi) Matzer & Hafellner, *Roselliniella

cladoniae Rehm, *Schmitzonia* = *Stictis cladoniae*
(Rehm) Sacc.

***cladoniae* (Alstrup & Zhurb.) Hafellner,
*Sphaerellothecium***

cladoniae* (Rehm) Sacc., *Stictis

cladoniae* Diederich & M.S.Christ., *Tremella

cladoniarum Nyl., *Lecidea* = *Bachmanniomyces*
punctum (A.Massal.) Diederich & Pino-Bodas

***cladoniarum* E.S.Hansen & Alstrup,
*Lichenopeltella***

cladoniella (Nyl.) A.Rich., *Patellea* =
Bachmanniomyces punctum (A.Massal.) Diederich
& Pino-Bodas

cladoniicola* Alstrup, *Cercidospora

***cladoniicola* (D.Hawksw. & R.Sant.) Pino-Bodas,
*Zhurb. & S.Stenroos, Cryptodiscus***

cladoniicola D.Hawksw. & R.Sant., *Lettauia* =
Cryptodiscus cladoniicola (D.Hawksw. & R.Sant.)
Pino-Bodas, *Zhurb. & S.Stenroos*

cladoniicola* Alstrup, *Merismatium

cladoniicola* D.Hawksw. & W.Gams, *Niesslia

***cladoniicola* E.S.Hansen & Alstrup,
*Sphaerellothecium***

cladonioica Nyl., *Lecidea* = *Bachmanniomyces*
punctum (A.Massal.) Diederich & Pino-Bodas

cladonioides Th.Fr., *Lecidea* = *Carbonicola*
anthracophila (Nyl.) Bendiksby & Timdal

cladonioides (Th.Fr.) Elenkin, *Psora* = *Carbonicola*
anthracophila (Nyl.) Bendiksby & Timdal

cladonioides var. *albocevina* Räsänen, *Psora* =
Carbonicola anthracophila (Nyl.) Bendiksby &
Timdal

cladonioides var. *castaneocinerea* Räsänen, *Psora* =
Carbonicola myrmecina (Ach.) Bendiksby & Timdal

clandestina* (Arnold) Jatta, *Polyblastia

clausa* (Hoffm.) Kremp., *Petractis

clauzadei* Nav.-Ros. & Cl.Roux, *Polycoccum

clavulifera Nyl., *Lecidea* = *Psilolechia clavulifera*
(Nyl.) Coppins

clavulifera (Nyl.) Coppins & P.James, *Micarea* =
Psilolechia clavulifera (Nyl.) Coppins

clavulifera* (Nyl.) Coppins, *Psilolechia

clavus (DC.) Th.Fr., *Biatorella* = *Sarcogyne clavus*
(DC.) Kremp.

clavus* (DC.) Kremp., *Sarcogyne

clemens* (Tul.) Th.Fr., *Arthonia

clemens auct., *Arthonia* = *Arthonia apotheciorum* (A.
Massal.) Almq.

clopima* (Wahlenb.) Th.Fr., *Staurothele

clopima, *Staurothele* = *Staurothele areolata* (Ach.)
Lettau

clopimoides* (Arnold) J.Steiner, *Staurothele

coarctata (Sm.) Ach., *Lecanora* = *Trapelia coarctata*
(Sm.) M.Choisy

coarctata subsp. *obtegens* Th.Fr., *Biatora* = *Trapelia*
obtegens (Th.Fr.) Hertel

coarctata subsp. *terrula* Hulting, *Biatora* = *Trapelia*
coarctata (Sm.) M.Choisy

coarctata var. ornata Sommerf., Lecanora = Trapelia
glebulosa (Sm.) J.R.Laundon

coarctata (Sm.) Nyl., Lecidea = Trapelia coarctata
(Sm.) M.Choisy

coarctata var. elachista (Ach.) Th.Fr., Lecidea =
Trapelia elachista (Ach.) Orange

coarctata b. microphyllina Fr., Parmelia = Trapelia
glebulosa (Sm.) J.R.Laundon

coarctata (Sm.) M.Choisy, Trapelia

coccifera (L.) Willd., Cladonia

coccifera sensu Asahina et al., Cladonia = Cladonia
borealis S.Stenroos

coccifera subsp. pleurota, Cladonia = Cladonia
pleurota (Flörke) Schaer.

coccifera var. pleurota (Flörke) Schaer., Cladonia =
Cladonia pleurota (Flörke) Schaer.

coccifera var. stemmatina (Ach.) Vain., Cladonia =
Cladonia coccifera (L.) Willd.

coccinea auct., Nectriella = Pronectria santessonii
(Lowen & D.Hawksw.) Lowen

coccineum (Dicks.) Körb., Haematomma =
Haematomma ochroleucum (Neck.) J.R.Laundon
var. ochroleucum

coccisporum (Norman) Vouaux, Merismatium

coccisporus Norman, Endococcus = Merismatium
coccisporum (Norman) Vouaux

coccodes (Ach.) Nyl., Pertusaria

coccodes var. phymatodes (Ach.) Almb., Pertusaria =
Pertusaria coccodes (Ach.) Nyl.

coccodes var. verruculosa Erichsen, Pertusaria =
Pertusaria coccodes (Ach.) Nyl.

coccodes (Flot.) Körb., Porocyphus

cocophorum Tuck., Collema = Enchylium
cocophorum (Tuck.) Otálora et al.

cocophorum (Tuck.) Otálora et al., Enchylium

cocophylloides Hepp ex Müll.Arg., Collema =
Rostania occultata (Bagl.) Otálora et al.

**cochleatum (Dicks.) P.M.Jørg. & P.James,
Leptogium**

coelestina (Anzi) Vězda, Toninia = Toniniopsis
coelestina (Anzi) Kistenich et al.

coelestina (Anzi) Kistenich et al., Toniniopsis

coenosa (Nyl.) Coppins & P.James, Aphanopsis

coenosa (Vain.) Zahlbr., Microglæna =
Protothelenella sphinctrinoidella (Nyl.) H.Mayrhofer
& Poelt

coenosa Vain., Thelenella = Protothelenella
sphinctrinoidella (Nyl.) H.Mayrhofer & Poelt

coepulona Norman, Arthopyrenia = Zwackhiomyces
coepulonus (Norman) Grube & R.Sant.

**coepulonus (Norman) Grube & R.Sant.,
Zwackhiomyces**

coilocarpa (Ach.) Nyl., Lecanora = Lecanora
pulcaris (Pers.) Ach.

coilocarpa auct., Lecanora = Lecanora
circumborealis Brodo & Vitik.

collematis (Boud.) Keissl., Pezizella

collematum (J. Steiner) Vouaux var. cladoniae
Keissl., Didymella

collemoides Fr., Lepraria = Micarea prasina Fr.

colliculosa Körb., Pertusaria = Pertusaria pertusa
(Weigel) Tuck. var. leiotera (Nyl.) Zahlbr.

collina (Ach.) Schrad., Peltigera

collina Orange et al., Porina

colobina (Ach.) Th.Fr., Rinodina

colombiana Etayo, Arthonia

commaculans Nyl., Lecidea

commixta (Nyl.) Th.Fr., Cetraria = Cetrariella
commixta (Nyl.) A.Thell & Kärnefelt

commixta (Nyl.) A.Thell & Kärnefelt, Cetrariella

commixta (H.Magn.) V.Wirth & Vězda, Fuscidea

commixta H.Magn., Lecidea = Fuscidea commixta
(H.Magn.) V.Wirth & Vězda

commixta (Nyl.) A.Thell, Melanelia = Cetrariella
commixta (Nyl.) A.Thell & Kärnefelt

commixta Vain., Strongyloopsis = Microcalicium
disseminatum (Ach.) Vain.

commixtum Nyl., Platysma = Cetrariella commixta (Nyl.) A.Thell & Kärnefelt

communis DC., Pertusaria = Pertusaria pertusa (Weigel) Tuck. var. pertusa

commutata Otte & M.Westb., Candelariella

commutata Zschacke, Verrucaria

comosa (L.) Vain, Usnea = Usnea subfloridana Stirt.

compacta Motyka, Usnea = Usnea glabrescens (Nyl. ex Vain.) Vain. ex Räsänen

compacta (A.Massal.) Jatta, Verrucaria = Heteropladidium fuscum (Nyl.) Gueidan & Cl. Roux

compactum (A.Massal.) R.Sant., Catapyrenium = Heteropladidium fuscum (Nyl.) Gueidan & Cl. Roux

compactum (A.Massal.) Blomb. & Forssell, Dermatocarpon = Heteropladidium fuscum (Nyl.) Gueidan & Cl. Roux

compactum (A.Massal.) Lönnr., Rhodocarpon = Heteropladidium fuscum (Nyl.) Gueidan & Cl. Roux

compactum Körb., Scoliciosporum = Scoliciosporum umbrinum (Ach.) Arnold

compallens van Herk & Aptroot, Lecanora

complanata (Körb.) Stein, Aspicilia = Miriquidica complanata (Körb.) Hertel & Rambold

complanata Körb., Lecanora = Miriquidica complanata (Körb.) Hertel & Rambold

complanata (Körb.) Hertel & Rambold, Miriquidica

complanatae Arnold, Endococcus = Endococcus perpusillus Nyl.

complicata H.Magn., Lecidea = Lecidea ecrustacea (Anzi ex Arnold) Arnold

compressulum (Szatala) A.F.W.Schmidt, Phaeocalicium

compressus Ach., Sphaerophorus = Bunodophoron melanocarpum (Sw.) Wedin

concentricum auct., Rhizocarpon = Rhizocarpon petraeum (Wulfen) A.Massal.

conchea Servit, Verrucaria

concilians (Nyl.) H.Olivier, Caloplaca

conciliascens (Nyl.) Zahlbr., Caloplaca

concinna Th.Fr., Buellia = Tetramelas concinnus (Th.Fr.) Giralt

concinna Borrer, Verrucaria = Parabagliettoa dufourii (DC.) Gueidan & Cl. Roux

concinnus (Th.Fr.) Giralt, Tetramelas

concolor (Dicks.) Stein, Candelaria

concordatula (Nyl.) P.M.Jørg., Pterygiopsis

concordatula Nyl., Pyrenopsis = Pterygiopsis concordatula (Nyl.) P.M.Jørg.

concrecens H.Magn., Lecidea = Clauzadea monticola (Schaer.) Hafellner & Bellem.

concreta Nyl., Pertusaria = Pertusaria pseudocorallina (Lilj.) Arnold

concretum (Ach.) Elenkin, Rhizocarpon = Rhizocarpon geminatum Körb.

condensata (Aigret) Zahlbr., Cladonia = Cladonia portentosa (Dufour) Coem.

condensatum Saut., Polycoccum = Polycoccum trypethelioides (Th.Fr.) R.Sant.

condensatum Hoffm., Stereocaulon

condensatum var. solediatum Harm., Stereocaulon = Stereocaulon pileatum Ach.

conductrix (Norman) Nik.Hoffmann & Hafellner, Epibryon

conductrix (Norman) Sacc., Laestadia = Epibryon conductrix (Norman) Nik.Hoffmann & Hafellner

conductrix (Norman) Clauzade et al., Plagiostoma = Epibryon conductrix (Norman) Nik.Hoffmann & Hafellner

conductrix Norman, Verrucaria = Epibryon conductrix (Norman) Nik.Hoffmann & Hafellner

conferenda Nyl., Lecidea = Adelolecia kolaënsis (Nyl.) Hertel & Rambold

conferta (Fr.) Grognot, Lecanora

conferta auct., Opegrapha = Arthonia calcarea (Turner ex Sm.) Ertz & Diederich

confertior Norman, Leptorhaphis = Leptorhaphis
deformis Norman

confervoides sensu A.Massal., Rhizocarpon =
Rhizocarpon disporum (Nägeli ex Hepp) Müll.Arg.

confervoides sensu Rabenh., Kremp., Rhizocarpon =
Rhizocarpon polycarpum (Hepp) Th.Fr.

confervoides DC., Rhizocarpon

confinis (O.F.Müll.) C.Agardh, Lichina

confluens (Weber) Ach., Lecidea

confluens (Ach.) Stizenb., Opegrapha = Opegrapha
vulgata (Ach.) Ach.

confluens auct., Opegrapha = Arthonia calcarea
(Turner ex Sm.) Ertz & Diederich

confluens A.Massal., Verrucaria

confluentula Müll.Arg., Lecidea

confluescens Nyl., Lecidea

conformis (Nyl.) Müll.Arg., Arthopyrenia =
Anisomeridium biforme (Borrer) R.C.Harris

confragosa (Ach.) Körb., Rinodina

confragosa subsp. crassescens Nyl., Rinodina =
Rinodina confragosa (Ach.) Körb.

confragosa var. dispersa Räsänen, Rinodina =
Rinodina confragosa (Ach.) Körb.

confragosa var. exterior Nyl., Rinodina = Rinodina
confragosa (Ach.) Körb.

confragosa var. extrusa Vain., Rinodina = Rinodina
confragosa (Ach.) Körb.

confusa (P.M.Jørg.) P.M.Jørg., Fuscopannaria

confusa Almb., Lecanora

confusa Nyl., Lecidea = Lecidea fuliginosa Taylor

confusa D.Hawksw., Mycomicrothelia

confusa P.M.Jørg., Pannaria = Fuscopannaria
confusa (P.M.Jørg.) P.M.Jørg.

confusa Gilenstam et al., Stictis

confusa Henssen, Thyrea

confusa (Nyl.) Boistel, Toninia = Lecidea fuliginosa
Taylor

confusior (Nyl.) Zahlbr., Catillaria = Catillaria
scotinodes (Nyl.) Coppins

confusior sensu Magnusson, Catillaria = Catillaria
aphana (Nyl.) Coppins

confusior Nyl., Lecidea = Catillaria scotinodes (Nyl.)
Coppins

congesta Körb., Pharcidia = Stigmatidium congestum
(Körb.) Triebel

congestum (Körb.) Triebel, Stigmatidium

conglomerans (Nyl.) Kernst., Aspicilia = Circinaria
caesiocinerea (Nyl. ex Malbr.) A.Nordin et al.

conglomerans Nyl., Lecanora = Circinaria
caesiocinerea (Nyl. ex Malbr.) A.Nordin et al.

conglomerata Ach., Lecidea = Psorinia conglomerata
(Ach.) Gotth.Schneid.

conglomerata Sommerf., Lecidea = Stereocaulon
cumulatum (Sommerf.) Timdal

conglomerata (Ach.) Gotth.Schneid., Psorinia

conglomerata (Ach.) Boist., Toninia = Psorinia
conglomerata (Ach.) Gotth.Schneid.

conglomeratum Hoffm., Collema = Enchylium
conglomeratum (Hoffm.) Otálora et al.

**conglomeratum (Hoffm.) Otálora et al.,
Enchylium**

conglomeratum (Fr.) Räsänen, Rhizocarpon =
Rhizocarpon alpicola (Anzi) Rabenh.

conglomeratum (Th.Fr.) Vain., Stereocaulon =
Stereocaulon subcoralloides (Nyl.) Nyl.

conglutinata H.Magn., Lecidea

congradiens auct., Caloplaca = Caloplaca grimmiae
(Nyl.) H.Olivier

congradiens (Nyl.) Zahlbr., Caloplaca

congruella Nyl., Lecidea = Gyalecta fagicola (Hepp
ex Arnold) Kremp.

coniocarpa Laurer, Parmelia = Parmotrema perlatum
(Huds.) M.Choisy

coniocraea (Flörke) Spreng., Cladonia

coniodes (Nyl.) Sacc. & D.Sacc., Pharcidia =
Sphaerellothecium coniodes (Nyl.) Cl.Roux &
Diederich

**coniodes (Nyl.) Cl.Roux & Diederich,
Sphaerellothecium**

coniodes (Nyl.) Triebel in Hertel et al., Stigmidium =
Sphaerellothecium coniodes (Nyl.) Cl.Roux &
Diederich

coniophaea Norman, Coniocybe = Sclerophora
coniophaea (Norman) J.Mattsson & Middelb.

**coniophaea (Norman) J.Mattsson & Middelb.,
Sclerophora**

coniophyllum I.M.Lamb, Stereocaulon

**coniops (Wahlenb.) M.Choisy ex Scheid. & H.
Mayrhofer, Amandinea**

coniops (Wahlenb.) Th.Fr., Buellia = Amandinea
coniops (Wahlenb.) M.Choisy ex Scheid. & H.
Mayrhofer

coniopta (Nyl.) Malme, Buellia = Rinodina
luridescens (Anzi) Arnold

coniopta (Nyl.) Hav., Rinodina = Rinodina
luridescens (Anzi) Arnold

conista (Nyl.) Robbins, Cladonia

conistea sensu Asahina, Cladonia = Cladonia humilis
(With.) J.R.Laundon

conizaea (Ach.) Nyl., Lecidea = Lecanora expallens
Ach.

conizaeoides Nyl. ex Cromb., Lecanora

conjugens Th.Fr., Toninia = Toniniopsis aromatica
(Sm.) Kistenich et al.

conoidea (Fr.) Körb., Acrocordia

conoidea (Fr.) Zahlbr., Arthopyrenia = Acrocordia
conoidea (Fr.) Körb.

conoidea Ahti, Cladonia = Cladonia humilis (With.)
J.R.Laundon

conoideillum Nyl., Thelocarpon = Thelocarpon
epibolum Nyl.

conoplea (Ach.) Bory, Pannaria

conradii Körb., Rinodina

consentiens (Nyl.) Hertel et al., Amygdalaria

consentiens (Nyl.) Hertel in Hawksworth et al.,
Huilia = Amygdalaria consentiens (Nyl.) Hertel et al.

consentiens Nyl., Lecidea = Amygdalaria
consentiens (Nyl.) Hertel et al.

consimilis Vain., Didymocyrtis

consimilis Nyl., Lecidea

consocians (Nyl.) Vain., Phaeocyrtis = Merismatium
heterophractum (Nyl.) Vouaux

consocians (Nyl.) Vouaux, Phaeospora =
Merismatium heterophractum (Nyl.) Vouaux

consocians H.Magn., Rinodina

**consociata (Nád.v.) A.F.W.Schmidt,
Chaenothecopsis**

consociata Servít, Verrucaria

consociatum Nád.v., Calicium = Chaenothecopsis
consociata (Nád.v.) A.F.W.Schmidt

conspersa (Ach.) Ach., Parmelia = Xanthoparmelia
conspersa (Ach.) Hale

conspersa f. arboricola Koskinen, Parmelia =
Xanthoparmelia conspersa (Ach.) Hale

conspersa (Ach.) Hale, Xanthoparmelia

conspicua Ahti, Cladonia = Cladonia rangiferina (L.)
F.H.Wigg.

conspicua (Ahti) Ahti, Cladonia = Cladonia
rangiferina (L.) F.H.Wigg.

conspurcans Th.Fr., Arthopyrenia = Stigmidium
conspurcans (Th.Fr.) Triebel & R.Sant.

conspurcans Norman, Biatorella

conspurcans var. kuhmoensis Vain., Biatorella =
Biatorella conspurcans Norman

conspurcans (Norman) Hedl., Lecanora = Biatorella
conspurcans Norman

**conspurcans (Th.Fr.) Triebel & R.Sant.,
Stigmidium**

constans (Nyl.) Hepp, Maronea

constipata (Norrl. & Nyl.) Moberg, Phaeophyscia

constipata Norrl. & Nyl., Physcia = Phaeophyscia
constipata (Norrl. & Nyl.) Moberg

constipata subsp. pityrophylla (Nyl.) Räsänen,
Physcia = Phaeophyscia kairamoi (Vain.) Moberg

constrictella (Müll.Arg.) Hafellner, Lichenochora

constrictella (Müll.Arg.) G. Winter, Pharcidia =
Lichenochora constrictella (Müll.Arg.) Hafellner

constrictum Malme, Rhizocarpon = Rhizocarpon
richardii (Lamy ex Nyl.) Zahlbr.

contenta H.Magn., Lecidea = Bryobilimbia
hypnorum (Lib.) Fryday et al.

contexta (Hedl.) Zahlbr., Catillaria = Micarea
contexta Hedl.

contexta Hedl., Micarea

contextum Triebel, Sphaerellothecium

contorta (Hoffm.) Kremp., Aspicilia = Circinaria
contorta (Hoffm.) A.Nordin et al.

contorta (Hoffm.) Kremp. subsp. contorta, Aspicilia
= Circinaria contorta (Hoffm.) A.Nordin et al.

contorta subsp. hoffmanniana Ekman & Fröberg ex
R.Sant., Aspicilia = Circinaria hoffmanniana (S.
Ekman & Fröberg ex R.Sant) A.Nordin

contorta (Hoffm.) A.Nordin et al., Circinaria

contorta (Hoffm.) A.Nordin et al. subsp. contorta,
Circinaria = Circinaria contorta (Hoffm.) A.Nordin et
al.

contorta (Hoffm.) J.Steiner, Lecanora = Circinaria
contorta (Hoffm.) A.Nordin et al.

contorta Bory, Parmelia = Parmelia submontana
Nádv. ex Hale

contortula Steud., Lecidea = Porpidia macrocarpa
(DC.) Hertel & A.J.Schwab

contracta (Th.Fr.) Zahlbr., Lecanora = Rimularia
badioatra (Kremp.) Hertel & Rambold

contractula Nyl., Lecanora = Myriolecis contractula
(Nyl.) Śliwa et al.

contractula (Nyl.) Śliwa et al., Myriolecis

contraponenda Arnold, Lecidea = Porpidia
contraponenda (Arnold) Knoph & Hertel

contraponenda (Arnold) Knoph & Hertel, Porpidia

contraria (H.Magn.), Aspicilia = Aspicilia
indissimilis (H.Magn.) Räsänen

contraria H.Magn., Lecanora = Aspicilia indissimilis
(H.Magn.) Räsänen

contraria Malme, Lecidea = Eiglera flavida (Hepp)
Hafellner

contribulans Nyl., Verrucaria = Normandina
acroglypta (Norman) Aptroot

contristans (Nyl.) Zahlbr., Catillaria

contristans sensu H.Magn., Catillaria = Micarea
melaena (Nyl.) Hedl.

controversa (A.Massal.) Rabenh., Xanthoria =
Polycauliona candelaria (L.) Frödén et al.

contrusa Vain., Lecidea = Scoliciosporum intrusum
(Th.Fr.) Hafellner

conturmatula Nyl., Verrucaria

conversa (Kremp.) Jatta, Caloplaca

convexa Th.Fr., Buellia = Tetramelas pulverulentus
(Anzi) A.Nordin & Tibell

convexa (Fr.) Flagey, Lecidea = Porpidia cinereoatra
(Ach.) Hertel & Knoph

convexa Henssen, Lichenothelia

convexella Nyl., Arthonia = Arthonia bueriana (J.
Lahm) Zahlbr.

convexula H.Magn., Rinodina = Rinodina trevisanii
(Hepp) Körb.

convoluta (Lam.) Anders, Cladonia = Cladonia
foliacea (Huds.) Willd.

copelandii (Körb.) Th.Fr., Rhizocarpon

coppinsii P. Roberts, Chionosphaera = Crittendenia
coppinsii (P. Roberts) Diederich et al.

coppinsii (P. Roberts) Diederich et al., Crittendenia

coppinsii Tønsberg, Micarea

coppinsii Diederich & G.Marson, Tremella

coprodes (Körb.) Lettau, Bacidia = Toniniopsis
coprodes (Körb.) S.Ekman & Coppins

coprodes (Körb.) S.Ekman & Coppins, Toniniopsis

coracina Lynge, Biatorella = Sporastatia testudinea
(Ach.) A.Massal.

coracina Körb., Buellia = Orphniospora moriopsis
(A.Massal.) D.Hawksw.

- coracina Sommerf., Lecidea = Sporastatia testudinea (Ach.) A.Massal. coriacella Nyl., Lecidea = Fuscidea kochiana (Hepp) V.Wirth & Vězda
- coracodes Nyl., Lecanora = Miriquidica complanata (Körb.) Hertel & Rambold **coriicola H.Magn., Thelidium**
- coracodiza (Nyl.) Forssell, Psorotichia = Pterygiopsis concordatula (Nyl.) P.M.Jørg. coriscium Gams, Omphalina = Lichenomphalia hudsoniana (H.S.Jenn.) Redhead et al.
- coracodiza (Nyl.) Henssen, Pterygiopsis = Pterygiopsis concordatula (Nyl.) P.M.Jørg. cornea (With.) Poetsch, Pachyphiale = Gyalecta carneola (Ach.) Hellb.
- coralliferum Degel., Collema = Collema glebulentum (Nyl. ex Cromb.) Degel. corniculata (Wallr.) Keissl., Guignardia = Obryzum corniculatum Wallr.
- corallina (L.) Hafellner, Lepra** corniculata (Wallr.) Sacc. & D.Sacc., Metasphaeria = Obryzum corniculatum Wallr.
- corallina (L.) Arnold, Pertusaria = Lepra corallina (L.) Hafellner corniculata (Wallr.) Vouaux, Sphaerulina = Obryzum corniculatum Wallr.
- corallinoides auct., Parmeliella = Parmeliella triptophylla (Ach.) Müll.Arg. corniculatum (Hoffm.) Minks, Leptogium = Scytinium palmatum (Huds.) Gray
- corallinoides (Flörke) Jatta, Placynthium = Placynthium nigrum (Huds.) Gray **corniculatum Wallr., Obryzum**
- corallinum Roberge, Illosporium = Marchandiomyces corallinus (Roberge) Diederich & D.Hawksw. **cornuta (L.) Hoffm., Cladonia**
- corallinus (Roberge) Diederich & D.Hawksw., Marchandiomyces** **cornuta (L.) Hoffm. subsp. cornuta, Cladonia**
- coralliza (Arup & Åkelius) Arup et al., Blastenia** **cornuta (L.) Hoffm. subsp. groenlandica (E.Dahl) Ahti, Cladonia**
- coralliza Arup & Åkelius, Caloplaca = Blastenia cornuta f. subdilata auct. scand., Cladonia = Cladonia cornuta (L.) Hoffm. subsp. groenlandica (E. Dahl) Ahti
- coralliza (Arup & Åkelius) Arup et al. **cornuta Körb., Usnea**
- coralliza (Nyl.) H.Magn., Candelariella** cornutoradiata (Leight.) Sandst., Cladonia = Cladonia subulata (L.) Weber ex F.H.Wigg.
- coralloides Pers., Sphaerophorus = Sphaerophorus globosus (Huds.) Vain. **cornuta Etayo, Arthonia**
- coralloides Fr., Stereocaulon = Stereocaulon dactylophyllum Flörke **cornuta (A.Massal.) Anzi, Aspicilia**
- coralloideum (Nyl.) Lynge, Lopadium** coronata auct. scand., Caloplaca = Flavoplaca dichroa (Arup) Arup et al.
- coralloideum (Nyl.) Vain., Sporopodium = Lopadium coralloideum (Nyl.) Lynge coronata (Kremp. ex Körb.) J.Steiner, Caloplaca = Flavoplaca coronata (Kremp. ex Körb.) Arup et al.
- corcontica Servít, Verrucaria** coronata (Kremp. ex Körb.) Arup et al., Flavoplaca
- coriacea Holien & Palice, Lecidea** **coronata (Ach.) Th.Fr., Pertusaria**
- coriacea (Th.Fr.) Th.Fr., Pertusaria** coronata var. isidiifera (Erichsen) Almb., Pertusaria = Pertusaria coronata (Ach.) Th.Fr.
- coriacea Imshaug, Umbilicaria = Umbilicaria rigida (Du Rietz) Frey coronata Th.Fr., Rexophiale = Rhexophiale rhexoblephara (Nyl.) Hellb.

corrosa (Körb.) Arnold, Microglaena =
Protothelenella corrosa (Körb.) H.Mayrhofer & Poelt

**corrosa (Körb.) H.Mayrhofer & Poelt,
Protothelenella**

corrosa (Körb.) Vain., Thelenella = Protothelenella
corrosa (Körb.) H.Mayrhofer & Poelt

corrugans Norman, Xylographa = Xylographa
vitiligo (Ach.) J.R.Laundon

corrugata (DC.) Nyl., Gyrophora = Umbilicaria
nylanderiana (Zahlbr.) H.Magn.

corrugata Ach., Lecidea = Cliostomum corrugatum
(Ach.:Fr.) Fr.

corrugata (Ach.) Ach., Limboria = Cliostomum
corrugatum (Ach.:Fr.) Fr.

corrugata var. alnea Ach., Limboria = Cliostomum
corrugatum (Ach.:Fr.) Fr.

corrugata (Ach.) Fr., Rhytisma = Cliostomum
corrugatum (Ach.:Fr.) Fr.

corrugata DC., Umbilicaria = Umbilicaria
nylanderiana (Zahlbr.) H.Magn.

corrugatula Nyl., Lecanora = Rimularia badioatra
(Kremp.) Hertel & Rambold

corrugatum (Ach.:Fr.) Fr., Cliostomum

corticalis Rutstr., Lichen = Bacidia rubella (Hoffm.)
A.Massal.

corticola (Nyl.) Almq., Bactrospora

corticola Lönnr., Pachyphiale = Gyalecta fagicola
(Hepp ex Arnold) Kremp.

corticola Muhr & Tønsgaard, Schaereria

corticola H.Magn., Thelidium = Normandina
acroglypta (Norman) Aptroot

corticola Coppins & P.James, Trapelia

corticola (Arnold) Servít, Verrucaria

coryli Vain., Melaspilea

coryli (A.Massal.) Vain., Mycopyrenula = Pyrenula
coryli A.Massal.

coryli A.Massal., Pyrenula

corynella (Ach.) Vain., Caliciella = Calicium
corynellum (Ach.) Ach.

corynellum (Ach.) Ach., Calicium

corynoides (Peck) R.H.Petersen, Multiclavula

**cosmopolites Hafellner & Calatayud,
Lichenostigma**

crassa (DC.) Fée, Enterographa

crassa (Huds.) Ach., Lecanora = Squamarina
cartilaginea (With.) P.James

crassa subsp. pachylepidea (Hellb.) Th.Fr., Lecanora
= Squamarina pachylepidea (Hellb.) Poelt

crassa (Delise ex Nyl.) Motyka, Ramalina =
Ramalina siliquosa (Huds.) A.L.Sm.

crassa (Huds.) Poelt, Squamarina = Squamarina
cartilaginea (With.) P.James

crassescens (Nyl.) Arnold, Rinodina = Rinodina
confragosa (Ach.) Körb.

crassipes Th.Fr., Helocarpon

crassipes (Th.Fr.) Nyl., Lecidea = Helocarpon
crassipes Th.Fr.

crassipes f. pulverula Th.Fr., Lecidea = Helocarpon
crassipes Th.Fr.

crassipes f. pulverula Th.Fr., Lecidea = Henrica
theleodes (Sommerf.) Savić et al.

crassipes (Th.Fr.) Coppins., Micarea = Helocarpon
crassipes Th.Fr.

crassisima auct., Lepraria = Lepraria nivalis J.R.
Laundon

crassissima Hue, Crocynia = Lepraria crassissima
(Hue) Lettau

crassissima (Hue) Lettau, Lepraria

crassula H.Magn., Lecanora = Lecanora chlorotera
Nyl.

crassum (DC.) Zahlbr., Chiodecton = Enterographa
crassa (DC.) Fée

crassum Vězda, Polycoccum

crassum A.Massal., Thelidium = Thelidium
decipiens (Nyl.) Kremp.

creatina Norman ex Th.Fr., Lecanora = Koerberiella
wimmeriana (Körb.) Stein

- creatomma (Norman) Zahlbr., Pertusaria = Pertusaria leioplaca DC.
- crenatulum (Nyl.) P.M.Jørg., Leptochidium**
- crenatulum (Nyl.) Vain., Leptogium = Leptochidium
crenatulum (Nyl.) P.M.Jørg.
- crenularia (With.) Arup et al., Blastenia**
- crenularia (With.) J.R.Laundon, Caloplaca = Blastenia crenularia (With.) Arup et al.
- crenulata (Wahlenb.) Th.Fr., Caloplaca = Candelariella arctica (Körb.) R.Sant.
- crenulata (Wahlenb.) Zahlbr., Candelariella = Candelariella arctica (Körb.) R.Sant.
- crenulata Hook., Lecanora = Myriolecis crenulata (Hook.) Šliwa et al.
- crenulata (Hook.) Šliwa et al., Myriolecis**
- crenulatella (Nyl.) H.Olivier, Caloplaca = Xanthocarpia crenulatella (Nyl.) Frödén et al.
- crenulatella (Nyl.) Frödén et al., Xanthocarpia**
- crenulatum H.Magn., Rhizocarpon = Rhizocarpon hochstetteri (Körb.) Vain.
- cretaceum (Hue) J.R.Laundon, Schismatomma = Sporodophoron cretaceum (Hue) Ertz & Frisch
- cretaceum (Hue) Ertz & Frisch, Sporodophoron**
- cretaceus (Ach.) Lettau, Diploschistes = Diploschistes gypsaceus (Ach.) Zahlbr.
- cribriformis Norman, Lecanora = Unguiculariopsis cribriformis (Norman) Alstrup & D.Hawksw.
- cribriformis (Norman) Alstrup & D.Hawksw., Unguiculariopsis**
- crinalis (Ach.) Gyeln., Ramalina = Ramalina thrausta (Ach.) Nyl.
- crinita Ach., Parmelia = Parmotrema crinitum (Ach.) M.Choisy
- crinitum (Ach.) M.Choisy, Parmotrema**
- crisima Nyl., Lecidea**
- crispa Motyka, Alectoria = Bryoria fuscescens (Gyeln.) Brodo & D.Hawksw.
- crispa (Huds.) Otálora et al., Blennothallia**
- crispa (Ach.) Nyl., Cetraria = Cetraria ericetorum Opiz
- crispata (Ach.) Flot., Cladonia**
- crispata (Ach.) Flot. var. cetrariiformis (Delise) Vain, Cladonia**
- crispata (Ach.) Flot. var. crispata, Cladonia**
- crispata var. dilacerata (Schaer.) Malbr., Cladonia = Cladonia crispata (Ach.) Flot. var. crispata
- crispata var. gracilescens (Rabenh.) Vain., Cladonia = Cladonia crispata (Ach.) Flot. var. cetrariiformis (Delise) Vain
- crispata var. infundibulifera (Schaer.) Vain., Cladonia = Cladonia crispata (Ach.) Flot. var. crispata
- crispum (Huds.) Weber ex F.H.Wigg., Collema = Blennothallia crispa (Huds.) Otálora et al.
- cristatum (L.) Weber ex F.H.Wigg., Collema = Lathagrium cristatum (L.) Otálora et al.
- cristatum (L.) Weber ex F.H.Wigg. var. cristatum, Collema = Lathagrium cristatum (L.) Otálora et al.
- cristatum (L.) Weber ex F.H.Wigg. var. marginale (Huds.) Degel., Collema = Lathagrium cristatum (L.) Otálora et al.
- cristatum (L.) Otálora et al., Lathagrium**
- croatica Schuler & Zahlbr., Gyalecta = Gyalecta derivata (Nyl.) H.Olivier
- croatica (Zahlbr.) Kotlov, Lecania**
- crocata auct. scand., Pseudocyphellaria = Pseudocyphellaria citrina (Pers.) Lücking et al.
- crocata (L.) Ach., Sticta = Pseudocyphellaria citrina (Pers.) Lücking et al.
- crocea (L.) Ach., Solorina**
- croceae (Bagl. & Carestia) Hafellner & H. Mayrhofer, Protothelenella**
- croceae Bagl. & Carestia, Xenosphaeria = Protothelenella croceae (Bagl. & Carestia) Hafellner & H.Mayrhofer
- crombiei (Mudd) Sacc. & D.Sacc., Pharcidia = Thamnogalla crombiei (Mudd) D.Hawksw.
- crombiei (Mudd) D.Hawksw., Thamnogalla**

**crozalsiana (H.Olivier) Nav.-Ros. et al.,
Cercidospora**

crozalsii Vouaux, Leptosphaeria = Pyrenidium
actinellum Nyl.

crozalsii, Leptosphaeria = Weddellomyces tartaricola
(Linds.) Alstrup & D.Hawksw.

cruenta (Körb.) P.James & Swinscow, Polyblastia =
Sporodictyon cruentum (Körb.) Körb.

cruentum (Körb.) Körb., Sporodictyon

crustulata (Ach.) Hertel., Huilia = Porpidia crustulata
(Ach.) Hertel & Knoph

crustulata (Ach.) Spreng., Lecidea = Porpidia
crustulata (Ach.) Hertel & Knoph

crustulata (Ach.) Hertel & Knoph, Porpidia

crustulatum (Ach.) M.Choisy, Haplocarpon =
Porpidia crustulata (Ach.) Hertel & Knoph

crustulosa (Ach.) Räsänen, Gyrophoropsis =
Umbilicaria crustulosa (Ach.) Frey

crustulosa (Ach.) Frey, Umbilicaria

**crustulosae (Creveld) Hafellner & Sancho,
Gyrophthorus**

crustulosae Creveld, Phacopsis = Gyrophthorus
crustulosae (Creveld) Hafellner & Sancho

crustulosus (Ach.) Schol., Omphalodiscus =
Umbilicaria crustulosa (Ach.) Frey

cryptochlorophaea Asahina, Cladonia

cryptophila Th.Fr. & Almq., Catillaria

crystallifera (Vain.) Hav., Buellia = Buellia
ectolechioides (Vain.) Erichsen

ocularare (Norman) Diederich, Odontotrema =
Sphaeropezia cucularis (Norman) Baloch & Wedin

ocularis (Norman) Lumbsch & D.Hawksw.,
Lethariicola = Sphaeropezia cucularis (Norman)
Baloch & Wedin

ocularis Norman, Limborina = Sphaeropezia
ocularis (Norman) Baloch & Wedin

**ocularis (Norman) Baloch & Wedin,
Sphaeropezia**

oculi Vain., Lecidea

cucullata (Bellardi) Randle & Saag, Allocetraria =
Flavocetraria cucullata (Bellardi) Kärnefelt & A.
Thell

cucullata (Bellardi) Ach., Cetraria = Flavocetraria
cucullata (Bellardi) Kärnefelt & A.Thell

**cucullata (Bellardi) Kärnefelt & A.Thell,
Flavocetraria**

cucullata (Bellardi) Divakar et al., Nephromopsis =
Flavocetraria cucullata (Bellardi) Kärnefelt & A.
Thell

culmigena (Libert) Ertz, Alyxoria

culmigena Libert, Opegrapha = Alyxoria culmigena
(Libert) Ertz

cumulata (Sommerf.) Th.Fr., Toninia = Stereocaulon
cumulatum (Sommerf.) Timdal

cumulatum (Sommerf.) Timdal, Stereocaulon

cumulatum (Sommerf.) Vain., Thalloedaema =
Stereocaulon cumulatum (Sommerf.) Timdal

cuprea (A.Massal.) Lettau, Bacidia = Lecania cuprea
(A.Massal.) van den Boom & Coppins

cuprea (Sommerf.) Fr., Biatora

cuprea Haugan & Timdal, Calvitimela

**cuprea (A.Massal.) van den Boom & Coppins,
Lecania**

cuprea Sommerf., Lecidea = Biatora cuprea
(Sommerf.) Fr.

cupreiformis (E.Nyl.) Nyl., Lecidea = Lecidea
berengeriana (A.Massal.) Th.Fr.

cupreoferruginea Hav., Arthopyrenia

cupreogrisea (Th.Fr.) Hue, Aspicilia = Circinaria
cupreogrisea (Th.Fr.) A.Nordin et al.

cupreogrisea (Th.Fr.) A.Nordin et al., Circinaria

cupreogrisea Th.Fr., Lecanora = Circinaria
cupreogrisea (Th.Fr.) A.Nordin et al.

cupriniforme Nyl., Stereocaulon = Stereocaulon
tomentosum Fr.

cupularis (Hedw.) Schaer., Gyalecta = Gyalecta
jenensis (Batsch) Zahlbr.

cupularis A.Massal., Polyblastia

cupulatoides P.D.Orton, Omphalina = Arrhenia
peltigerina (Peck) Redhead et al.

cupuliformis Räsänen, Biatora = Lecidea
cupuliformis (Räsänen) H.Magn.

cupuliformis (Räsänen) H.Magn., Lecidea

cupuliformis auct., Lecidea = Lecidea erythrophaea
Flörke ex Sommerf.

curnowii Cromb. ex Nyl., Ramalina = Ramalina
cuspidata (Ach.) Nyl.

curta H.Magn., Coniocybe = Sclerophora pallida
(Pers.) Y.J.Yao & Spooner

curtisporum Degel., Collema

curtum Turner & Borrer ex Sm., Calicium =
Calicium abietinum Pers.

curtum var. denigratum Vain., Calicium = Calicium
denigratum (Vain.) Tibell

curvabilis (Nyl.) Hue, Aspicilia = Sagedia zonata
Ach.

curvabilis Nyl., Lecanora = Sagedia zonata Ach.

curvata Sérus., Lilliputeana = Scoliciosporum
curvatum Sérus.

curvatum Sérus., Scoliciosporum

curvescens (Mudd) Poelt, Bryonora

curvescens (Mudd) A.L.Sm., Lecania = Bryonora
curvescens (Mudd) Poelt

curvescens (Mudd) Nyl. ex Carroll, Lecanora =
Bryonora curvescens (Mudd) Poelt

curvispora D.Hawksw. & Miądl., Libertiella =
Scutula curvispora (D.Hawksw. & Miądl.) Diederich

**curvispora (D.Hawksw. & Miądl.) Diederich,
Scutula**

curvula (H.Magn.) Hertel, Fuscidea = Fuscidea
recensa (Stirt.) Hertel et al.

curvula H.Magn., Lecidea = Fuscidea recensa (Stirt.)
Hertel et al.

cuspidans (Nyl.) Moen et al., Coniocarpon

cuspidata (Ach.) Nyl., Ramalina

custnani (A.Massal.) Körber, Placidiopsis
cyanea, Lecidea = Lecidea tessellata Flörke

cyanea sensu Vain., Lecidea = Lecidea lapicida
(Ach.) Ach. var. pantherina Ach.

**cyanea (A.Massal.) Gueidan & Cl.Roux,
Parabagliettoa**

cyanea A.Massal., Verrucaria = Parabagliettoa
cyanea (A.Massal.) Gueidan & Cl.Roux

cyanescens (Rabenh.) Körb., Leptogium

cyanescens (Hellb.) Zahlbr., Rhizocarpon =
Rhizocarpon polycarpum (Hepp) Th.Fr.

cyanipes (Sommerf.) Nyl., Cladonia

cyanocarpa (Anzi) Lutzoni, Hymenelia

cyanocarpa (Anzi) Jatta, Ionaspis = Hymenelia
cyanocarpa (Anzi) Lutzoni

cyanoloma (Schaer.) H.H.Blom & L.Lindblom,
Degelia = Pectenia cyanoloma (Schaer.) P.M.Jørg. et
al.

cyanoloma (Schaer.) P.M.Jørg. et al., Pectenia

cyathoides (Ach.) V.Wirth & Vězda, Fuscidea

**cyathoides (Ach.) V.Wirth & Vězda var. corticola
(Fr.) Kalb, Fuscidea**

**cyathoides (Ach.) V.Wirth & Vězda var.
cyathoides, Fuscidea**

**cyathoides (Ach.) V.Wirth & Vězda var. sorediata
(H.Magn.) Poelt, Fuscidea**

cyathoides (Ach.) Ach., Lecidea = Fuscidea
cyathoides (Ach.) V.Wirth & Vězda

cyathoides var. sorediata (H.Magn.) H.Magn.,
Lecidea = Fuscidea cyathoides (Ach.) V.Wirth &
Vězda var. sorediata (H.Magn.) Poelt

cyathomorpha Stirt. ex Walt.Watson, Cladonia

cyclocarpa Anzi, Lithographa = Sarcogyne
cyclocarpa (Anzi) J.Steiner

cyclocarpa (Anzi) Vězda, Polysporina = Sarcogyne
cyclocarpa (Anzi) J.Steiner

cyclocarpa (Anzi) J.Steiner, Sarcogyne

cyclodes Hellb. ex Th.Fr., Rhizocarpon =
Rhizocarpon copelandii (Körb.) Th.Fr.

cycloselis (Ach.) Vain., Physcia = Phacophyscia
orbicularis (Neck.) Moberg

cyclospora (Körb.) Müll.Arg., Lecidea =
Protoblastenia cyclospora (Hepp ex Körb.) Poelt

cyclospora (Hepp ex Körb.) Poelt, Protoblastenia

cylindrica (L.) Ach., Gyrophora = Umbilicaria
cylindrica (L.) Delise ex Duby

cylindrica (L.) Delise ex Duby, Umbilicaria

**cylindrica (L.) Delise ex Duby var. cylindrica,
Umbilicaria**

**cylindrica (L.) Delise ex Duby var. delisei Nyl,
Umbilicaria**

cylindrica P.Clerc, Usnea

cyphispora (Ach.) Vain., Parmelia = Flavoparmelia
caperata (L.) Hale

cyrtaspis auct., Ionaspis = Hymenelia melanocarpa
(Kremp.) Arnold

cyrtella (Ach.) Th.Fr., Lecania

cyrtellina (Nyl.) Sandst., Lecania

cyrtellina Nyl., Lecanora = Lecania cyrtellina (Nyl.)
Sandst.

cyrtidia auct., Lecidea = Micarea lapillicola (Vain.)
Coppins & Muhr

**cytospora (Vouaux) Diederich et al.,
Briancoppinsia**

cytospora (Vouaux) D.Hawksw., Phoma =
Briancoppinsia cytospora (Vouaux) Diederich et al.

cytospora Vouaux, Phyllosticta = Briancoppinsia
cytospora (Vouaux) Diederich et al.

czarnotae Launis et al., Micarea

dacampiae Zhurb., Skyttea

dactylina (Ach.) Hafellner, Lepra

dactylina (Ach.) Nyl., Pertusaria = Lepra dactylina
(Ach.) Hafellner

dactylophyllum Flörke, Stereocaulon

daedalea (Kremp.) Creveld, Placidiopsis =
Catapyrenium daedaleum (Kremp.) Stein

daedaleum (Kremp.) Stein, Catapyrenium

daedaleum (Kremp.) Th.Fr., Dermatocarpon =
Catapyrenium daedaleum (Kremp.) Stein

daedaleum var. corticola H.Magn., Dermatocarpon =
Catapyrenium psoromoides (Borrer) R.Sant.

dahliana Kristinsson, Cladonia

dalecarlica H.Magn., Lecanora = Sagedia zonata
Ach.

dalecarlica Hedl., Lecidea = Palicella filamentosa
(Stirt.) Rodr.Flakus & Printzen

dalslandensis Servít, Verrucaria

dalslandica Hulting, Lecidea

danica Servít & M.S.Christ., Verrucaria

danubica var. stenhammarii Servít, Verrucaria =
Verrucaria stenhammarii (Servít) Servít

daphnis Vain., Didymella = Arthopyrenia analepta
(Ach.) A.Massal.

daphoena var. rorida Sommerf., Lecidea = Lecidea
lithophila (Ach.) Ach.

dasaea Stirt., Lecidea = Placynthiella dasaea (Stirt.)
Tønsberg

dasaea (Stirt.) Tønsberg, Placynthiella

dasopoga (Ach.) Nyl., Usnea

dasypoga (Ach.) Nyl., Usnea = Usnea dasopoga
(Ach.) Nyl.

dealbans sensu Keissler, Pharcidia

dealbata auct., Pertusaria = Lepra aspergilla (Ach.)
Hafellner

dealbescens auct., Pertusaria = Lepra aspergilla
(Ach.) Hafellner

debile Sm., Calicium = Chaenothecopsis debilis
(Sm.) Tibell

debilis (Sm.) Tibell, Chaenothecopsis

decedens (Stizenb.) Mig., Bacidia = Bilimbia
sabuletorum (Schreb.) Arnold

decifiens Nyl., Pannaria = Santessonella arctophila
(Th.Fr.) Henssen

decipiens (A.Massal.) Forssell, Anema

decipiens sensu Th.Fr., Anema = Anema
nummularium (Dufour ex Durieu & Mont.) Nyl. ex
Forssell

decipiens (Arnold) Arup et al., Calogaya

decipiens (Arnold) Blomb. & Forssell, Caloplaca = Calogaya decipiens (Arnold) Arup et al.

decipiens (Hedw.) Ach., Lecidea = Psora decipiens (Hedw.) Hoffm.

decipiens A.Massal., Omphalaria = Anema decipiens (A.Massal.) Forssell

decipiens (Hedw.) Hoffm., Psora

decipiens (Nyl.) Kremp., Thelidium

decipiescens (Vain.) Zschacke, Polyblastia

decipiescens Vain., Thelidium = Polyblastia

decipiescens (Vain.) Zschacke

declinans Nyl., Lecidea = Lecidea lapicida (Ach.) Ach. var. lapicida

declinascens Nyl., Lecidea = Lecidea lapicida (Ach.) Ach. var. lapicida

decolorans (Turner & Borrer ex Sm.) Erichsen, Arthonia = Dendrographa decolorans (Turner & Borrer ex Sm.) Ertz & Tehler

decolorans (Hoffm.) Fr., Biatora = Trapeliopsis granulosa (Hoffm.) Lumbsch

decolorans (Turner & Borrer ex Sm.) Ertz & Tehler, Dendrographa

decolorans (Hoffm.) Flörke, Lecidea = Trapeliopsis granulosa (Hoffm.) Lumbsch

decolorans (Turner & Borrer ex Sm.) Almb., Lepraria = Dendrographa decolorans (Turner & Borrer ex Sm.) Ertz & Tehler

decolorans (Rehm ex Arnold) Triebel, Merismatium

decolorans Rehm ex Arnold, Phaeospora = Merismatium decolorans (Rehm ex Arnold) Triebel

decolorans (Turner & Borrer ex Sm.) Clauzade & Vězda, Schismatomma = Dendrographa decolorans (Turner & Borrer ex Sm.) Ertz & Tehler

decolorella (Nyl.) O.E.Erikss. & J.Z.Yue, Cercidospora

decolorella var. lichenicola (Zopf) O.E.Erikss. & J.Z. Yue, Cercidospora = Cercidospora punctillata (Nyl.) R.Sant.

decolorella (Nyl.) Vain., Metasphaeria = Cercidospora decolorella (Nyl.) O.E.Erikss. & J.Z. Yue

decolorella Nyl., Verrucaria = Cercidospora decolorella (Nyl.) O.E.Erikss. & J.Z.Yue

decorticata (Flörke) Spreng., Cladonia

decussata (Vill.) Zahlbr., Umbilicaria

decussata Garov., Verrucaria = Parabagliettoa cyanea (A.Massal.) Gueidan & Cl.Roux

decussatum Zschacke, Thelidium

decussatus (Vill.) Schol., Omphalodiscus = Umbilicaria decussata (Vill.) Zahlbr.

dedicata Triebel et al., Scutula

deflectens Nyl., Lecanora = Rinodina deflectens (Nyl.) Blomb. & Forssell

deflectens (Nyl.) Blomb. & Forssell, Rinodina

deformans R.Sant. & Brackel, Polycoccum

deformis (L.) Hoffm., Cladonia

deformis var. gonecha (Ach.) Arnold, Cladonia = Cladonia sulphurina (Michx.) Fr.

deformis Norman, Leptorhaphis

degeliana Hertel, Lecidea

degeliana Coppins, Rinodina = Rinodina subparieta (Nyl.) Zahlbr.

degelianum P.M.Jørg., Lempholemma

degelii T.Schauer & Brodo, Lecanora = Lecanora cinereofusca H.Magn.

degelii Erichsen, Pertusaria

degelii Poelt, Squamarina

degelii R.Sant., Stigmatidium

degelii R.Sant., Verrucaria

degenerans (Flörke) Spreng., Cladonia = Cladonia phyllophora Hoffm.

degenii Gyeln., Peltigera

delessertii Vain., Cladonia = Cladonia subfurcata (Nyl.) Arnold

delicata (Larbal. ex Leight.) V.Wirth & Vězda, Bacidina

delicata (Ehrh. ex Ach.) Flörke, Cladonia = Cladonia parasitica (Hoffm.) Hoffm.

delicata M.S.Christ. & D.Hawksw., Taeniolella

delicatula Th.Fr., Arctomia

delicatula var. acutior (Nyl.) Henssen, Arctomia = Arctomia delicatula Th.Fr.

delicatula subsp. andreaearum Th.Fr., Arctomia = Arctomia interfixa (Nyl.) Vain.

delicatula var. cisalpina Hulting, Arctomia = Arctomia delicatula Th.Fr.

delicatula (Larbal. ex Leight.) Coppins, Bacidia = Bacidina delicata (Larbal. ex Leight.) V. Wirth & Vězda

delimitata (H.Magn.), Aspicilia = Aspicilia cinerea (L.) Körb.

delimitata H.Magn., Lecanora = Aspicilia cinerea (L.) Körb.

delincta (Nyl.) Pietschm., Clauzadea = Bryobilimbia ahlesii (Körb.) Fryday et al.

delincta Nyl., Lecidea = Bryobilimbia ahlesii (Körb.) Fryday et al.

delincta var. subverruculosa Nyl., Lecidea = Bryobilimbia ahlesii (Körb.) Fryday et al.

delisei (Bory ex Schaer.) Nyl., Cetraria = Cetrariella delisei (Bory ex Schaer.) Kärnefelt & A.Thell

delisei var. fastigiata (Nyl.) Vain., Cetraria = Cetrariella fastigiata (Delise ex Nyl.) Kärnefelt & A. Thell

delisei subsp. fastigiata Delise ex Nyl., Cetraria = Cetrariella fastigiata (Delise ex Nyl.) Kärnefelt & A. Thell

delisei (Bory ex Schaer.) Kärnefelt & A.Thell, Cetrariella

delisei (Duby) Essl., Neofuscelia = Xanthoparmelia delisei (Duby) O.Blanco et al.

delisei (Duby) Nyl., Parmelia = Xanthoparmelia delisei (Duby) O.Blanco et al.

delisei Bory ex Duby, Stereocaulon

delisei (Duby) O.Blanco et al., Xanthoparmelia

delitescens Arnold, Biatorella = Biatoridium delitescens (Arnold) Hafellner

delitescens (Arnold) Hafellner, Biatoridium

delitescens (Arnold) Coppins, Strangospora = Biatoridium delitescens (Arnold) Hafellner

delutula (Nyl.) Coppins & H.Kiliias, Absconditella

demangeonii (Moug. & Mont.) Nyl., Phylliscum

demarginata auct., Lecidea = Brianaria lutulata (Nyl.) S.Ekman & M.Svensson

demarginata Nyl., Lecidea = Micarea erratica (Körb.) Hertel et al.

deminuens Vain., Dermatocarpon

deminuens (Nyl.) Vain., Lecanactis = Cresponea chloroconia (Tuck.) Egea & Torrente

deminuta (Th.Fr.) Triebel, Dactylospora = Sclerococcum deminutum (Th.Fr.) Ertz & Diederich

deminuta (Arnold) Tomas. & Ciff., Halospora

deminuta Coppins, Micarea

deminuta Arnold, Polyblastia = Halospora deminuta (Arnold) Tomas. & Ciff.

deminutum (Arnold) Cl.Roux & Nav.-Ros., Merismatium = Halospora deminuta (Arnold) Tomas. & Ciff.

deminutum (Th.Fr.) Ertz & Diederich, Sclerococcum

demissa (Körb.) Arup & Grube, Caloplaca

demissa (Körb.) Zahlbr., Lecanora = Caloplaca demissa (Körb.) Arup & Grube

demissa (Rutstr.) Ach., Lecidea = Lecidoma demissum (Rutstr.) Gotth. Schneid. & Hertel

demissa (Rutstr.) M.Choisy, Lepidoma = Lecidoma demissum (Rutstr.) Gotth. Schneid. & Hertel

demissa (Rutstr.) Stein, Psora = Lecidoma demissum (Rutstr.) Gotth. Schneid. & Hertel

demissa auct., Rinodina = Rinodina gennarii Bagl.

demissum (Rutstr.) Gotth. Schneid. & Hertel, Lecidoma

demissus Rutstr., Lichen = Lecidoma demissum (Rutstr.) Gotth. Schneid. & Hertel

demolita Vain., Lecidea

demonum H.Magn., Lecidea = Miriquidica lulensis (Hellb.) Hertel & Rambold

dendroides auct., Dendriscoaulon = Lobaria amplissima (Scop.) Forssell

dendrophora (Poelt) Hestmark, Umbilicaria

dendroplaca (H.Magn.) Oxner, Aspicilia

dendroplaca H.Magn., Lecanora = Aspicilia dendroplaca (H.Magn.) Oxner

denigrata (Fr.) Hedl., Catillaria = Micarea denigrata (Fr.) Hedl.

denigrata var. bacidiella Vain., Lecidea = Biatora beckhausii (Körb.) Tuck.

denigrata var. submisella Nyl., Lecidea = Micarea denigrata (Fr.) Hedl.

denigrata (Fr.) Hedl., Micarea

denigrata var. friesiana Hedl., Micarea = Micarea denigrata (Fr.) Hedl.

denigratum (Vain.) Tibell, Calicium

densatum Nyl., Asirosiphon = Spilonema revertens Nyl.

denudata Th.Fr., Gyalecta = Gyalecta friesii Flot. ex Körb.

denudata Zschacke, Verrucaria = Verrucaria hydrela Ach.

denudatum Nyl., Stereocaulon = Stereocaulon vesuvianum Pers.

denudatum Flörke, Stereocaulon = Stereocaulon vesuvianum Pers.

depauperata H.Magn., Caloplaca = Blastenia subathallina Arup & Vondrák

deplanata Almq., Biatorella = Strangospora deplanata (Almq.) Clauzade & Cl.Roux

deplanata (Almq.) Clauzade & Cl.Roux, Strangospora

depressa (Ach.) Anzi, Aspicilia = Aspicilia cinerea (L.) Körb.

depressa (Ach.) Schaer., Gyrophora = Umbilicaria crustulosa (Ach.) Frey

depressa Ach., Sagedia = Aspicilia cinerea (L.) Körb.

depressa Stenh., Verrucaria = Verrucaria obscura Th. Fr.

depressella (Vain.) H.Magn., Ahlesia = Thelocarpon depressellum Vain.

depressellum Vain., Thelocarpon

depressula Servít, Verrucaria = Verrucaria obscura Th.Fr.

depressum (Frey) I.M.Lamb, Stereocaulon

derivata (Nyl.) H.Olivier, Gyalecta

dermatodes A.Massal., Polyblastia

desertorum Tomin, Caloplaca = Gyalolechia desertorum (Tomin) Söchting et al.

desertorum (Tomin) Poelt, Fulgensia = Gyalolechia desertorum (Tomin) Söchting et al.

desertorum (Tomin) Söchting et al., Gyalolechia

despecta Th.Fr., Lecidea

despreauxii (Mont.) Tuck., Heppia

detricta auct., Cladonia = Cladonia zopfii Vain.

detricta (Nyl.) Fisch.-Benz., Cladonia = Cladonia amaurocraea (Flörke) Schaer.

destructans Alstrup, Rhizocarpon

destruens sensu Magnusson, Conida = Arthonia epiphyscia Nyl.

detersa (Nyl.) Nyl., Physcia = Physconia detersa (Nyl.) Poelt

detersa (Nyl.) Poelt, Physconia

detersella Nádv., Physcia = Physconia enteroxantha (Nyl.) Poelt

detrusa Th.Fr., Biatora = Lecanora detrusa (Th.Fr.) Vain.

detrusa Th.Fr., Biatora = Lecanora albellula (Nyl.) Th.Fr.

detrusa (Th.Fr.) Vain., Lecanora

deusta (Stenh.) Nyl., Lecanora = Miriquidica deusta (Stenh.) Hertel & Rambold

deusta (Stenh.) Nyl., Lecidea = Miriquidica deusta (Stenh.) Hertel & Rambold

deusta (Stenh.) Hertel & Rambold, Miriquidica

deusta (L.) Baumg., Umbilicaria

deustata Zahlbr., Lecidea = Miriquidica deusta
(Stenh.) Hertel & Rambold

devergens Nyl., Verrucaria

deversa Vain., Verrucaria

devulgata Nyl., Opegrapha = Opegrapha vulgata
(Ach.) Ach.

diabasicum Räsänen, Rhizocarpon = Rhizocarpon
geographicum (L.) DC. subsp. diabasicum (Räsänen)
Poelt & Vězda

diamarta (Ach.) Boistel, Aspicilia = Bellemerea
diamarta (Ach.) Hafellner & Cl.Roux

diamarta (Ach.) Hafellner & Cl.Roux, Bellemerea

diamarta (Ach.) Vain., Lecanora = Bellemerea
diamarta (Ach.) Hafellner & Cl.Roux

diapensiae (Th.Fr.) Hellb., Biatora = Bryobilimbia
diapensiae (Th.Fr.) Fryday et al.

diapensiae (Th.Fr.) Fryday et al., Bryobilimbia

diapensiae Th.Fr., Lecidea = Bryobilimbia
diapensiae (Th.Fr.) Fryday et al.

diaphana (Körb. ex Nyl.) Vězda, Gyalidea

diaphora Ach., Opegrapha = Alyxoria varia (Pers.)
Ertz & Tehler

diasema Nyl., Lecidea = Lecidella euphorea (Flörke)
Hertel

diasemoides Nyl., Lecidea = Lecidella stigmatea
(Ach.) Hertel & Leuckert

diblastum Gyeln., Placynthium = Placynthium
tantaleum (Hepp) Hue

dichroa Arup, Caloplaca = Flavoplaca dichroa
(Arup) Arup et al.

dichroa (Arup) Arup et al., Flavoplaca

dicksonii auct., Lecidea = Tremolecia atrata (Ach.)
Hertel

dictyospora (Orange) R.Sant., Leucocarpia =
Psoroglaena dictyospora (Orange) H.Harada

dictyospora Orange, Macentina = Psoroglaena
dictyospora (Orange) H.Harada

dictyospora (Orange) H.Harada, Psoroglaena

**dictyosporum (Coppins & P.James) Coppins,
Arthothelium**

didactyla (With.) J.R.Laundon, Peltigera

didactyla var. extenuata (Nyl. ex Vain.) Gauffinet &
Hastings, Peltigera = Peltigera extenuata (Nyl. ex
Vain.) Lojka

diducens Nyl., Lecidea

didyma Körb., Arthonia

didymelloides Zahlbr., Arthopyrenia

difficilis Pykälä & Myllys, Verrucaria

diffluens (Nyl.) Arnold, Psorotichia

difformis (Vain.) Vain., Xylographa

diffracta (A.Massal.) Zahlbr., Toninia = Thalloidima
diffractum (A.Massal.) A.Massal.

diffractum (Th.Fr.) Blomb. & Forssell,
Dermatocarpon = Dermatocarpon leptophylloides
(Nyl.) Zahlbr.

diffractum Kremp. ex Körb., Leptogium =
Pseudoleptogium diffractum (Körb.) Müll.Arg.

diffractum (Körb.) Müll.Arg., Pseudoleptogium

diffractum (A.Massal.) A.Massal., Thalloidima

diffusa (J.R.Laundon) Kukwa, Lepraria

**diffusa (J.R.Laundon) Kukwa var. chrysodetoides
(J.R.Laundon) Kukwa, Lepraria**

**diffusa (J.R.Laundon) Kukwa var. diffusa,
Lepraria**

diffusa auct., Parmeliopsis = Parmeliopsis ambigua
(Wulfen) Nyl.

diffusum var. chrysodetoides J.R. Laundon,
Lepraloma = Lepraria diffusa (J.R.Laundon) Kukwa
var. chrysodetoides (J.R.Laundon) Kukwa

diffusum var. diffusum J.R.Laundon, Lepraloma =
Lepraria diffusa (J.R.Laundon) Kukwa var. diffusa

digitata (L.) Hoffm., Cladonia

digitatae Hafellner, Arthonia

dilabens Th.Fr., Gyalecta = Gyalidea scutellaris
(Bagl. & Carestia) Lettau

dilacerata (Hoffm.) Hoffm., Ramalina

dilatata Räsänen, Chaenotheca = Chaenotheca
ferruginea (Turner ex Sm.) Mig.

**dilatata (M.Westb. & Wedin) K.Knudsen & L.
Arcadia, Myriospora**

dilatata M.Westb. & Wedin, Silobia = Myriospora
dilatata (M.Westb. & Wedin) K.Knudsen & L.
Arcadia

dilleniana (Ach.) Körb., Lecanactis = Psoronactis
dilleniana (Ach.) Ertz & Tehler

dilleniana var. muscicola Räsänen, Lecanactis =
Porina mammillosa (Th.Fr.) Vain.

dilleniana subsp. sphaerobola Lettau, Lecanactis =
Psoronactis dilleniana (Ach.) Ertz & Tehler

dilleniana (Ach.) Ertz & Tehler, Psoronactis

diluta (Pers.) Trevis., Dimerella = Coenogonium
pineti (Ach.) Lücking & Lumbsch

diluta (Pers.) Blomb. & Forssell, Gyalecta =
Coenogonium pineti (Ach.) Lücking & Lumbsch

diluta (Pers.) Zahlbr., Microphiale = Coenogonium
pineti (Ach.) Lücking & Lumbsch

diluta Pers., Peziza = Coenogonium pineti (Ach.)
Lücking & Lumbsch

dimera (Nyl.) Th.Fr., Lecania = Lecania dubitans
(Nyl.) A.L.Sm.

dimera Nyl., Lecanora = Lecania dubitans (Nyl.) A.
L.Sm.

dimidiata (Arnold) Nyl., Physcia

dimidiata var. ornata (Nád.v.) Moberg, Physcia =
Physcia dimidiata (Arnold) Nyl.

dimidiata Savić & Tibell, Polyblastia

dinothetes Hertel & Leuckert, Rhizocarpon

diphyes (Nyl.) Th.Fr., Blastenia = Caloplaca diphyes
(Nyl.) H.Olivier

diphyes (Nyl.) H.Olivier, Caloplaca

diphyodes (Nyl.) Jatta, Caloplaca

diplocheila sensu H.Magn. p.p., Rinodina = Rinodina
interpolata (Stirt.) Sheard

diplocheila Vain. ex H.Magn., Rinodina = Rinodina
occulta (Körb.) Sheard

diplocheila f. luxurians H.Magn., Rinodina =
Rinodina interpolata (Stirt.) Sheard

diploschistina Millanes et al., Tremella

diplotypus Vain., Usnea = Usnea dasopoga (Ach.)
Nyl.

diplotypus var. leucostictoides Räsänen, Usnea =
Usnea barbata (L.) Weber ex F.H.Wigg.

discernenda (Nyl.) Zahlbr., Caloplaca = Caloplaca
saxicola (Hoffm.) Nordin

disciforme (Flot.) Kullh., Lopadium

disciformis (Fr.) Mudd, Buellia

discoënsse Lyngé, Rhizocarpon = Rhizocarpon
cinereovirens (Müll.Arg.) Vain.

discoënsis Lyngé, Lecanora

discoïdalis (Vain.) Lyngé, Caloplaca = Blastenia
ammiospila (Wahlenb.) Arup et al.

discoïdea Fr., Lecidea = Porpidia cinereoatra (Ach.)
Hertel & Knoph

discoïdea (Pers.) Malme, Pertusaria = Lepra
albescens (Huds.) Hafellner

discoïdea subsp. mammosoides Erichsen, Pertusaria

discolor Th.Fr., Gyrophora = Umbilicaria decussata
(Vill.) Zahlbr.

discolor (Hepp) Arnold, Rinodina = Rinodina
oxydata (A.Massal.) A.Massal.

discordans Nyl., Parmelia = Parmelia omphalodes
(L.) Ach. subsp. discordans (Nyl.) Skult

**discrepans (J.Lahm ex Arnold) Hafellner,
Halospora**

discrepans (J.Lahm) Triebel, Merismatium =
Halospora discrepans (J.Lahm ex Arnold) Hafellner

discrepans J.Lahm, Polyblastia = Halospora
discrepans (J.Lahm ex Arnold) Hafellner

discreta (Ach.) Arnold, Acarospora

disjuncta (Erichsen) Essl., Melanelia = Montanelia
disjuncta (Erichsen) Divakar et al.

disjuncta (Arnold) Krzewicka, Parabagiettoa

disjuncta Erichsen, Parmelia = Montanelia disjuncta (Erichsen) Divakar et al.

disjuncta Sheard & Tønsberg, Rinodina

disjuncta Arnold, Verrucaria = Parabagliettoa

disjuncta (Arnold) Krzewicka

disjuncta (Erichsen) Divakar et al., Montanelia

dispansa Nyl, Lecidea = Micarea erratica (Körb.)

Hertel et al.

dispansum H.Magn., Lempholemma

dispersa (Schrad.) Nyl., Arthonia

dispersa var. excipienda (Nyl.) H.Olivier, Arthonia = Arthonia excipienda (Nyl.) Leight.

dispersa J.Lahm ex Körb., Arthopyrenia = Zwackhiomyces dispersus (J.Lahm ex Körb.) Triebel & Grube

dispersa (Räsänen) Hakul., Candelariella = Candelariella aurella (Hoffm.) Zahlbr.

dispersa (Pers.) Sommerf., Lecanora = Myriolecis

dispersa (Pers.) Śliwa et al.

dispersa var. atrynella (Nyl.) Vain., Lecanora = Myriolecis dispersa (Pers.) Śliwa et al.

dispersa f. coniotropa, Lecanora = Myriolecis invadens (H.Magn.) Śliwa et al.

dispersa (Pers.) Śliwa et al., Myriolecis

dispersa R.Sant. nom. nud., Ochrolechia = Toensbergia leucococca (R.Sant.) Bendiksby & Tindal

dispersa f. hygrophila (Arnold) Keissl., Pharcidia = Stigmatidium hygrophilum (Arnold) R.Sant.

dispersella (Vain.) Vain., Rinodina = Rinodina septentrionalis Malme

dispersum (Kremp.) Arnold, Diplotomma = Diplotomma lutosum A.Massal.

dispersum (J.Lahm ex Körb.) D.Hawksw., Stigmatidium = Zwackhiomyces dispersus (J.Lahm ex Körb.) Triebel & Grube

dispersus Pers., Lichen = Myriolecis dispersa (Pers.) Śliwa et al.

dispersus Å.E.Dahl, Porocyphus = Thelignya lignyota (Wahlenb.) P.M.Jørg. & Henssen

dispersus (J.Lahm ex Körb.) Triebel & Grube, Zwackhiomyces

disporum (Nägeli ex Hepp) Müll.Arg., Rhizocarpon

disporum auct., Rhizocarpon = Rhizocarpon geminatum Körb.

dispuncta Nyl., Arthonia

disseminatum (Ach.) Fr., Calicium = Microcalicium

disseminatum (Ach.) Vain.

disseminatum (Ach.) Vain., Microcalicium

disseminatum var. aeruginosum Räsänen, Microcalicium = Microcalicium disseminatum (Ach.) Vain.

disseminatum f. pedicellatum Vain., Microcalicium = Microcalicium disseminatum (Ach.) Vain.

disserpens (Zahlbr.) Räsänen, Aspicilia = Aspicilia perradiata (Nyl.) Hue

disserpens (Zahlbr.) H.Magn., Lecanora = Aspicilia perradiata (Nyl.) Hue

dissimilis (Passadina) Hafellner, Menegazzia = Menegazzia subsimilis (H.Magn.) R.Sant.

dissimilis (Norman) Norman, Tholurna

dissimilis Gerasimova & A.Beck, Toniniopsis

dissipabilis (Nyl.) Hertel, Farnoldia

dissipabilis (Nyl.) Hertel, Melanolecia = Farnoldia

dissipabilis (Nyl.) Hertel

dissipata H.Magn., Lecidea = Lecidea polycocca Sommerf.

distans (Ach.) Nyl., Lecanora = Lecanora populicola (DC.) Duby

distans (Hulting) H.Magn., Pilophorus = Pilophorus strumaticus Nyl. ex Cromb.

distensa Vain., Lecidea = Miriquidica leucophaea (Flörke ex Rabenh.) Hertel & Rambold

distinctior Norman, Arthonia = Arthonia excentrica Th.Fr.

distinctum Th.Fr., Rhizocarpon

distinguenda Th.Fr., Sarcogyne

distorta (With.) J.R.Laundon, Physconia

ditmarsica Erichsen, Verrucaria

divaricata (L.) Ach., Evernia

divaricata subsp. illyrica Zahlbr., Evernia = Evernia illyrica (Zahlbr.) Zahlbr.

divaricata (L.) Hue, Letharia = Evernia divaricata (L.) Ach.

divergens (Ach.) Nyl., Alectoria = Bryocaulon
divergens (Ach.) Kärnefelt

divergens (Ach.) Kärnefelt, Bryocaulon

divergens (Ach.) R.Howe, Coelocaulon =
Bryocaulon divergens (Ach.) Kärnefelt

divergens Ach., Cornicularia = Bryocaulon divergens
(Ach.) Kärnefelt

divergens Nyl., Verrucaria = Verrucaria divergens
Nyl.

diversa Asperges ex S.Stenroos, Cladonia

diversisporum Hav., Rhizocarpon = Rhizocarpon
intersitum Arnold

dives (Th.Fr.) Th.Fr., Buellia

dolera (Nyl.) Blomb. & Forssell, Bacidia

dolichotera (Nyl.) Sacc. & D.Sacc., Metasphaeria =
Sphaerulina dolichotera (Nyl.) Vouaux

dolichotera (Nyl.) Vouaux, Sphaerulina

dolichoterum (Nyl.) Trevis., Placynthium

**dolomitica (Arnold) Clauzade & Cl.Roux,
Opegrapha**

dolomitica (A.Massal.) Kremp., Verrucaria

dolomiticola (Hue) Zahlbr., Caloplaca = Variospora
dolomiticola (Hue) Arup et al.

dolomiticola (Hue) Arup et al., Variospora

dolosa Ach., Lecidea = Lecidella euphorea (Flörke)
Hertel

dolosa Hepp, Verrucaria

dolosula (Nyl.) Vain., Lecidea = Adolelecia
kolaënsis (Nyl.) Hertel & Rambold

dolosum (Fr.) Flot. & Körb., Schismatomma =
Schismatomma pericleum (Ach.) Branth & Rostr.

dominans (Arnold) Zahlbr., Polyblastia

dominans Arnold, Thelidium = Polyblastia dominans
(Arnold) Zahlbr.

dovrefjeldensis Henn. & Kirschst., Cantharellus =
Lichenomphalia alpina (Britzelm.) Redhead et al.

dovrensis H.Magn., Blastenia = Caloplaca dovrensis
(H.Magn.) Degel.

dovrensis H.Magn., Buellia = Phaeorrhiza sareptana
(Tomin) H.Mayrhofer & Poelt var. sphaerocarpa (Th.
Fr.) H.Mayrhofer & Poelt

dovrensis (H.Magn.) Degel., Caloplaca

dovrensis Hedl., Lecanora

dovrensis Nyl., Lecidea = Pilophorus dovrensis
(Nyl.) Timdal et al.

dovrensis var. stenotera Nyl., Lecidea = Lecidea
stenotera (Nyl.) Nyl.

dovrensis (Nyl.) Timdal et al., Pilophorus

drepanodes Feuerer, Rhizocarpon

druidarum W.L.Culb., Ramalina = Ramalina
siliquosa (Huds.) A.L.Sm.

drummondii (Tuck.) Tuck., Staurothele = Staurothele
clopima (Wahlenb.) Th.Fr.

dryina (Ach.) A.Massal., Bactrospora

dryina (Ach.) Vain., Lecanactis = Bactrospora dryina
(Ach.) A.Massal.

dryina subsp. corticola (Nyl.) Lettau (non
Coniangium corticulum Fr. nom. nud.), Lecanactis =
Bactrospora corticola (Nyl.) Almq.

dryophila (Almq.) Th.Fr., Biatorella

dryophila Lettau, Lecanactis = Bactrospora dryina
(Ach.) A.Massal.

dubia (Vain.) Malme, Buellia = Buellia
ectolechioides (Vain.) Erichsen

dubia (Wulfen) Schaer., Parmelia = Punctelia
subrudecta (Nyl.) Krog

dubia var. stictica (Duby) Schaer., Parmelia =
Punctelia stictica (Duby) Krog

dubia (Hoffm.) Lettau, Physcia

dubia (H.Magn.) Vězda, Polysporina = Acarospora
subfuscescens (Nyl.) H.Magn.

dubia H.Magn., Sarcogyne = Acarospora
subfuscescens (Nyl.) H.Magn.

dubiella (Nyl.) A.L.Sm., Pharcidia = Sphaerulina
dubiella (Nyl.) Keissler

dubiella (Nyl.) Keissler, Sphaerulina

dubiella Nyl., Verrucaria = Sphaerulina dubiella
(Nyl.) Keissler

dubitans (Nyl.) A.L.Sm., Lecania

dubyana (Hepp) Rabenh., Buellia = Rinodina
dubyana (Hepp) J.Steiner

dubyana (Hepp) J.Steiner, Rinodina

dudinensis (H.Magn.) Oxner, Aspicilia

dudinensis H.Magn., Lecanora = Aspicilia
dudinensis (H.Magn.) Oxner

duebenii Fr. ex Hellb., Buellia = Buellia badia (Fr.)
A.Massal.

dufourii (Ach. ex Nyl.) Vain., Catillaria = Catillaria
contristans (Nyl.) Zahlbr.

dufourii Ach. ex Nyl., Lecidea = Catillaria
contristans (Nyl.) Zahlbr.

**dufourii (DC.) Gueidan & Cl.Roux,
Parabagliettoa**

dufourii Delise, Sticta = Sticta canariensis (Bory)
Bory ex Delise

dufourii (DC.) Servit, Thelidium = Parabagliettoa
dufourii (DC.) Gueidan & Cl.Roux

dufourii DC., Verrucaria = Parabagliettoa dufourii
(DC.) Gueidan & Cl.Roux

duplex Coppins & Aptroot, Fellhanera = Puttea
duplex (Coppins & Aptroot) M.Svensson

duplex (Coppins & Aptroot) M.Svensson, Puttea

durietzii H.Magn., Acarospora = Acarospora discreta
(Ach.) Arnold

ebeneum Norman, Thrombium

ebeneus (Dillwyn) Thwaites, Cystocoleus

eburnea J.R.Laundon, Lepraria

ecatonospora Anzi, Microthelia = Muellerella
erratica (Müll.Arg.) Hafellner & V.John

ecmocyna Leight., Cladonia

ecmocyna auct. p.p., Cladonia = Cladonia maxima
(Asahina) Ahti

ecmocyna f. nigripes Nyl., Cladonia = Cladonia
gracilis (L.) Willd. subsp. elongata (Wulfen) Vain.

ecrustacea (Anzi ex Arnold) Arnold, Lecidea

ectanea (Ach.) Räsänen, Xanthoria = Xanthoria
parietina (L.) Th.Fr.

ectaneoides (Nyl.) Zahlbr., Xanthoria = Xanthoria
aureola (Ach.) Erichsen

ectanoides sensu Hakulinen, Xanthoria = Rusavskia
elegans (Link) S.Y.Kondr. & Kärnefelt

ectolechioides (Vain.) Erichsen, Buellia

ecyphellata (Hav.) Gyeln., Cyanisticta =
Pseudocyphellaria norvegica (Gyeln.) P.James

effiguratum (Anzi) Th.Fr., Rhizocarpon

effiguratum sensu Th.Fr., Malme etc., Rhizocarpon =
Rhizocarpon superficiale (Schaer.) Vain. subsp.
boreale Runemark

efflorescens Räsänen, Arthonia = Sclerococcum
sphaerale (Ach.) Fr.

efflorescens (Hedl.) Räsänen, Biatora

efflorescens r. ruissaloensis (Vain.) Räsänen, Biatora
= Biatora efflorescens (Hedl.) Räsänen

**efflorescens R.C.Harris & W.R.Buck,
Candelariella**

efflorescens f. ruissaloensis Vain., Lecidea = Biatora
efflorescens (Hedl.) Räsänen

efflorescens Vain., Pertusaria = Mycoblastus alpinus
(Fr.) Th.Fr. ex Hellb.

efflorescens Th.Fr., Rhizocarpon = Buellia
griseovirens (Turner & Borrer ex Sm.) Almb.

efflorescens Malme, Rinodina

effugiens Nilson, Lecidea = Lecidella effugiens
(Nilson) Knoph & Hertel

effugiens (Nilson) Knoph & Hertel, Lecidella

effusa (Auersw. ex Rabenh.) Stizenb., Bacidia =
Scutula effusa Rabenh.) Kistenich et al.

effusa Rabenh., Bilimbia = Scutula effusa Rabenh.)
Kistenich et al.

effusa (Hoffm.) Ach., Lecanora = Lecanora saligna (Schrad.) Zahlbr.

effusa var. ravida (Hoffm.) Th.Fr., Lecanora = Lecanora saligna (Schrad.) Zahlbr.

effusa var. sarcopis (Ach.) Th.Fr., Lecanora = Lecanora saligna (Schrad.) Zahlbr.

effusa var. delicata Larbal. ex Leight., Lecidea = Bacidina delicata (Larbal. ex Leight.) V. Wirth & Vězda

effusa Rabenh.) Kistenich et al., Scutula

effusella Zahlbr., Bacidia = Scutula effusa Rabenh.) Kistenich et al.

effusella Hedl., Lecanora = Lecanora albellula (Nyl.) Th.Fr.

egenula (Nyl.) Arnold, Bacidia = Bacidina egenula (Nyl.) Vězda

egenula (Nyl.) Vězda, Bacidina

ehrhartiana (Ach.) Th.Fr., Cliostomum = Cliostomum corrugatum (Ach.:Fr.) Fr.

ehrhartiana (Ach.) Ach., Lecidea = Cliostomum corrugatum (Ach.:Fr.) Fr.

ehrhartiana var. ceracella (Th.Fr.) Hedl., Lecidea = Cliostomum leprosum (Räsänen) Holien & Tønsberg

elabens Fr., Lecidea = Ramboldia elabens (Fr.) Kantvilas & Elix

elabens (Fr.) Hafellner, Pyrrhospora = Ramboldia elabens (Fr.) Kantvilas & Elix

elabens (Fr.) Kantvilas & Elix, Ramboldia

elachista (Körb.) Vain., Catillaria = Micarea elachista (Körb.) Coppins & R.Sant.

elachista (Körb.) Coppins & R.Sant., Micarea

elachista (Ach.) Orange, Trapelia

elachistophora auct., Skyttea = Skyttea tephromelarum Kalb & Hafellner

elachistotera (Nyl.) H.Riedl, Arthopyrenia

elachistoterum (Nyl.) Vain., Cyrtidium = Arthopyrenia elachistotera (Nyl.) H.Riedl

elachistoterum Nyl., Mycoporum = Arthopyrenia elachistotera (Nyl.) H.Riedl

elacista Ach., Parmelia = Trapelia elachista (Ach.) Orange

elacista (Ach.) Orange, Trapelia = Trapelia elachista (Ach.) Orange

elaeina (Wahlenb.) Nyl., Pannaria = Vestergrenopsis elaeina (Wahlenb.) Gyeln.

elaeina auct., Physcia = Hyperphyscia adglutinata (Flörke) H.Mayrhofer & Poelt

elaeina Borrer, Verrucaria

elaeina (Wahlenb.) Gyeln., Vestergrenopsis

elaecinum (Wahlenb.) Hafellner & T.Sprib., Tingiopsidium = Vestergrenopsis elaeina (Wahlenb.) Gyeln.

elaeochroma (Ach.) Ach., Lecidea = Lecidella

elaeochroma (Ach.) M.Choisy

elaeochroma auct. p.p., Lecidea = Lecidella euphorea (Flörke) Hertel

elaeochroma var. aeruginea (H.G.Falk) Th.Fr., Lecidea = Lecidella aeruginea (H.G.Falk) Knoph & Leuckert

elaeochroma var. muscorum Th.Fr., Lecidea = Lecidella wulfenii (Hepp) Körb.

elaeochroma var. pilularis Th.Fr., Lecidea = Lecidella stigmatea (Ach.) Hertel & Leuckert

elaeochroma (Ach.) M.Choisy, Lecidella

elaeochroma var. pulverulenta Th.Fr., Lecidella = Lecidella scabra (Taylor) Hertel & Leuckert

elaeochroma f. soralifera (Erichsen) D.Hawksw., Lecidella = Lecidella elaeochroma (Ach.) M.Choisy

elaeomelaena auct., Verrucaria = Verrucaria funckii (Spreng.) Zahlbr.

elaeomelaena (A.Massal.) Anzi, Verrucaria

elata Schaer., Lecidea = Lecanora marginata (Schaer.) Hertel & Rambold

elata var. marginata (Schaer.) A.Massal., Lecidea = Lecanora marginata (Schaer.) Hertel & Rambold

elatina (Ach.) A.Massal., Loxospora

elatinum (Ach.) A.Massal., Haematomma = Loxospora elatina (Ach.) A.Massal.

elegans auct Brit., *Arthonia* = *Coniocarpon fallax* (Ach.) Grube

elegans R.Sant., *Arthopyrenia* = *Collemopsidium elegans* (R.Sant.) Grube & B.D.Ryan

elegans* Poelt, *Buellia

elegans (Link) Th.Fr., *Caloplaca* = *Rusavskia*

elegans (Link) S.Y.Kondr. & Kärnefelt

elegans* (R.Sant.) Grube & B.D.Ryan, *Collemopsidium

elegans* (Borrer ex Sm.) Ach., *Graphis

elegans (Th.Fr.) Vain, *Lecidea* = *Amygdalaria*

elegantior (H.Magn.) Hertel & Brodo

elegans (Link) DC., *Placodium* = *Rusavskia elegans* (Link) S.Y.Kondr. & Kärnefelt

elegans R.Sant., *Pyrenocollema* = *Collemopsidium*

elegans (R.Sant.) Grube & B.D.Ryan

elegans* (Bagl. & Carestia) Jatta, *Ramalina

elegans* (Link) S.Y.Kondr. & Kärnefelt, *Rusavskia

elegans (Wallr.) Zwackh, *Staurothele* = *Staurothele frustulenta* Vain.

elegans (Link) Th.Fr., *Xanthoria* = *Rusavskia*

elegans (Link) S.Y.Kondr. & Kärnefelt

elegantior* (H.Magn.) Hertel & Brodo, *Amygdalaria

elegantior (H.Magn.) Hertel, *Huilia* = *Amygdalaria*

elegantior (H.Magn.) Hertel & Brodo

elegantior H.Magn., *Lecidea* = *Amygdalaria*

elegantior (H.Magn.) Hertel & Brodo

elegantula Müll.Arg., *Gyalecta* = *Gyalecta subclausa* Anzi

elegantula (Zahlbr.) Essl., *Melanelia* = *Melanohalea*

elegantula (Zahlbr.) O.Blanco et al.

elegantula* (Zahlbr.) O.Blanco et al., *Melanohalea

elegantula (Zahlbr.) Szatala, *Parmelia* = *Melanohalea*

elegantula (Zahlbr.) O.Blanco et al.

elegantula p.p. sensu Essl., *Parmelia* = *Melanohalea infumata* (Nyl.) O.Blanco et al.

elegantula subsp. *infumata* (Nyl.) Clauzade & Cl. Roux, *Parmelia* = *Melanohalea infumata* (Nyl.) O. Blanco et al.

elenkinii Tomin, *Buellia* = *Buellia griseovirens* (Turner & Borrer ex Sm.) Almb.

elevata (Lynge) J.W.Thomson, *Aspicilia*

elevata (Vain.) Tibell, *Chaenothecopsis* = *Chaenothecopsis debilis* (Sm.) Tibell

elevata Lynge, *Lecanora* = *Aspicilia elevata* (Lynge) J.W.Thomson

elevata* (Nyl.) Zschacke, *Verrucaria

elevatum H.Magn., *Rhizocarpon* = *Rhizocarpon copelandii* (Körb.) Th.Fr.

elfvingii Vain. & Räsänen ex. Räsänen, *Aspicilia* = *Circinaria gibbosa* (Ach.) A.Nordin et al.

elisabethae kolae Versegly, *Ochrolechia* = *Ochrolechia frigida* (Sw.) Lynge

elisabethae* Gyeln., *Peltigera

ellipsospora* J.C.Zamora et al., *Heteroacanthella

elobata* Tønsgaard, *Lepraria

elongata (Wulfen) Hoffm., *Cladonia* = *Cladonia gracilis* (L.) Willd. subsp. *elongata* (Wulfen) Vain.

elongata auct. p.p., *Cladonia* = *Cladonia macroceras* (Delise) Hav.

elongata auct. p.p., *Cladonia* = *Cladonia maxima* (Asahina) Ahti

elongatum* Nav.-Ros. & Hafellner, *Lichenostigma

elveloides (Weber) Hedl. in Hulting, *Icmadophila* = *Icmadophila ericetorum* (L.) Zahlbr.

ementiens* (Nyl.) Printzen, *Biatora

ementiens Nyl., *Lecidea* = *Biatora ementiens* (Nyl.) Printzen

emergens Flot., *Lecidea* = *Farnoldia hypocrita* (A. Massal.) Frøberg

enalliza Nyl., *Lecidea* = *Lecidea plebeja* Nyl.

enalliza var. *fuliginosa* Th.Fr., *Lecidea* = *Lecidea paraclitica* Nyl.

enalliza var. *subplanata* Malme, *Lecidea* = *Lecidea malmeana* Zahlbr.

encausta (Sm.) W.R.Wats., Hypogymnia = Brodoa
 intestiniformis (Vill.) Goward

encausta (Sm.) Ach., Parmelia = Brodoa
 intestiniformis (Vill.) Goward

encausta var. intestiniformis sensu Th.Fr, Parmelia =
 Brodoa atrofusca (Schaer.) Goward

encaustica Nyl., Epiphora = Plectocarpon
 encausticum (Nyl.) R.Sant.

encaustica (Nyl.) Vouaux, Homostegia =
 Plectocarpon encausticum (Nyl.) R.Sant.

encaustica (Nyl.) Theiss. & Syd., Telimena =
 Plectocarpon encausticum (Nyl.) R.Sant.

encausticum (Nyl.) R.Sant., Plectocarpon

enclitica Nyl., Lecidea

endamyaleum Th.Fr., Rhizocarpon = Rhizocarpon
 grande (Flörke) Arnold

endiviifolia (Dicks.) Fr., Cladonia = Cladonia
 foliacea (Huds.) Willd.

endocarpoides Servit, Verrucaria

endococcina (Körb.) Moberg, Phaeophyscia

endococcina (Körb.) Th.Fr., Physcia = Phaeophyscia
 endococcina (Körb.) Moberg

endocyanea (Stirt.) Hertel & Gotth. Schneid.,
 Schaereria = Schaereria fuscocinerea (Nyl.) Clauzade
 & Cl.Roux

endoleuca auct., Bacidia = Bacidia laurocerasi
 (Delise ex Duby) Zahlbr.

endolitheia Lynge, Lecidea = Lecidella patavina (A.
 Massal.) Knoph & Leuckert

endolitheia (Lynge) Hertel & Leuckert, Lecidella =
 Lecidella patavina (A.Massal.) Knoph & Leuckert

endomelaena Leight., Lecidea

endophoenicea (Harm.) Moberg, Phaeophyscia

endophoenicea (Harm.) Sántha, Physcia =
 Phaeophyscia endophoenicea (Harm.) Moberg

endophragmia I.M.Lamb, Rinodina

engeliana (Saut.) A.Massal., Dacampia

engeliana (Saut.) G.Winter, Pleospora = Dacampia
 engeliana (Saut.) A.Massal.

enteroleuca Ach., Lecidea = Melaspilea enteroleuca
 (Ach.) Ertz & Diederich

enteroleuca subsp. aeruginea H.G.Falk, Lecidea =
 Lecidella aeruginea (H.G.Falk) Knoph & Leuckert

enteroleuca (Ach.) Ertz & Diederich, Melaspilea

enteromorpha (Flot.) Vain., Lecidea = Lecidea plana
 (J.Lahm) Nyl.

enterophaea Vain., Lecidea

enteroxantha Nyl., Physcia = Physconia enteroxantha
 (Nyl.) Poelt

enteroxantha (Nyl.) Poelt, Physconia

epanora (Ach.) Ach., Lecanora

ephebes Henssen, Pharcidia = Stigmatidium ephebes
 (Henssen) D.Hawksw.

ephebes (Henssen) D.Hawksw., Stigmatidium

epiblastematica (Wallr.) Rehm, Scutula

epiblastematica sensu Vain., Scutula = Scutula heeri
 (Hepp) Trevis.

epibolum Nyl., Thelocarpon

epibolum Nyl. var. epibolum, Thelocarpon

**epibolum var. epithallinum (Leight.) G.Salisb.,
 Thelocarpon**

epibolum f. longisporum H.Magn., Thelocarpon =
 Thelocarpon epibolum var. epithallinum (Leight.) G.
 Salisb.

epibryon (Ach.) Ach., Lecanora

epicarphinea auct., Cercidospora = Cercidospora
 xanthoriae (Wedd) R.Sant.

epicladonia (Nyl.) Alstrup & Zhurb., Arthonia =
 Zhurbenkoa epicladonia (Nyl.) Flakus et al.

epicladonia (Nyl.) Arnold, Biatorina = Zhurbenkoa
 epicladonia (Nyl.) Flakus et al.

epicladonia (Nyl.) H.Olivier, Catillaria = Zhurbenkoa
 epicladonia (Nyl.) Flakus et al.

epicladonia (Nyl.) anon., Conida = Zhurbenkoa
 epicladonia (Nyl.) Flakus et al.

epicladonia Nyl., Lecidea = Zhurbenkoa epicladonia
 (Nyl.) Flakus et al.

epicladonia (Nyl.) Sacc., Scutula = Zhurbenkoa
epicladonia (Nyl.) Flakus et al.

epicladonia (Nyl.) Flakus et al., Zhurbenkoa

epicrassa (H.Olivier) Vouaux, Didymosphaeria =
Clypeococcum epicrassum (H.Olivier) Nav.-Ros. &
Roux

**epicrassum (H.Olivier) Nav.-Ros. & Roux,
Clypeococcum**

epicrassum (H.Olivier) R.Sant., Polycoccum =
Clypeococcum epicrassum (H.Olivier) Nav.-Ros. &
Roux

epicymatia (Wallr.) G.Winter, Pharcidia =
Stigmatidium congestum (Körb.) Triebel

epidermidis (Ach.) Vain., Campylacea =
Leptorhaphis epidermidis (Ach.) Th.Fr.

epidermidis (Ach.) Th.Fr., Leptorhaphis

epidermidis var. pyrenastrella Nyl., Verrucaria =
Naetrocymbe punctiformis (Pers.) R.C.Harris

epigaea (Pers.) Tuck., Buellia

epigaea A.Massal., Polyblastia

epigaea var. bryina Nyl., Verrucaria = Thrombium
epigaeum (Pers.) Wallr.

epigaeella (Nyl.) Th.Fr., Catillaria

epigaeum (Pers.) Wallr., Thrombium

epigena Nyl., Lecidea = Scutula miliaris (Wallr.)
Trevis.

epiglypta (Norrl. ex Nyl.) Hue, Aspicilia

epiglypta Norrl. ex Nyl., Lecanora = Aspicilia
epiglypta (Norrl. ex Nyl.) Hue

epiiodiza Nyl., Lecidea = Schaereria fuscocinerea
(Nyl.) Clauzade & Cl.Roux

epilepraria Kukwa & Diederich, Monodictys

epilitha Vain., Verrucaria

epilithellum Nyl., Thelocarpon = Thelocarpon laureri
(Flot.) Nyl.

epimela (Norman ex Almq.) I.M.Lamb, Arthonia

epiparasitaster Alstrup, Cephalosporiopsis

epiparmelia Vouaux, Phoma

epipasta (Ach.) Körb., Arthonia = Arthonia dispersa
(Schrad.) Nyl.

epiphaea Nyl., Lecidea

epiphaea f. rupiseda Th.Fr., Lecidea = Lecidea
epiphaea Nyl.

epiphylla Pers., Athelia

epiphyscia Nyl., Arthonia

epiphyscia Ertz & Diederich, Didymocytis

epiphyscia Vouaux, Phoma

epiphyta Lynge, Caloplaca = Gyalolechia
xanthostigmoidea (Räsänen) Søchting et al.

epiploica Norman, Lecidea = Calvitimela perlata
(Haugan & Timdal) M.P.Andreev

epipolaea (Borrer) A.Massal., Arthopyrenia =
Acrocordia conoidea (Fr.) Körb.

epipolaeum A.Massal.?, Thelidium

epipolia (Ach.) Mong., Buellia = Diplotomma
alboatrum (Hoffm.) Flot.

epipolium (Ach.) Arnold, Diplotomma =
Diplotomma alboatrum (Hoffm.) Flot.

epipolytropa (Mudd) Arnold, Cercidospora

epipolytropa (Mudd) Berl. & Voglino, Didymella =
Cercidospora epipolytropa (Mudd) Arnold

epipolytropa var. exiguella Nyl., Didymella =
Cercidospora exiguella (Nyl.) Arnold

episcalaris Tibell & Knutsson, Calicium

episema (Nyl.) H.Olivier, Catillaria = Kiliasia
episema (Nyl.) Hafellner

episema (Nyl.) Hafellner, Kiliasia

episema (Nyl.) Timdal, Toninia = Kiliasia episema
(Nyl.) Hafellner

epithallina Lynge, Caloplaca

epithallina Tibell, Chaenothecopsis

epithallina H.Magn., Lecanora

epithallina (W. Phillips & Plowr.) Sacc., Pezizella

epithallinum Leight., Thelocarpon = Thelocarpon
epibolum var. epithallinum (Leight.) G.Salisb.

epixantha auct., Candelariella = Candelariella aurella (Hoffm.) Zahlbr.

epixanthoides (Nyl.) Lettau, Bacidia = Mycobilimbia

epixanthoides (Nyl.) Vitik. et al.

epixanthoides (Nyl.) Diederich, Biatora = Mycobilimbia epixanthoides (Nyl.) Vitik. et al.

epixanthoides (Nyl.) Kullh., Bilimbia = Mycobilimbia epixanthoides (Nyl.) Vitik. et al.

epixanthoides Nyl., Lecidea = Mycobilimbia

epixanthoides (Nyl.) Vitik. et al.

epixanthoides (Nyl.) Vitik. et al., Mycobilimbia

epixanthoidiza (Nyl.) Räsänen, Biatora = Biatora efflorescens (Hedl.) Räsänen

epixanthoidiza Nyl., Lecidea = Biatora efflorescens (Hedl.) Räsänen

epixanthoidiza auct., Lecidea = Biatora chrysantha (Zahlbr.) Printzen

epixanthoidiza var. incana (Sommerf.) Vain., Lecidea = Biatora chrysantha (Zahlbr.) Printzen

epomphala (Nyl.) Zschacke, Polyblastia

epulotica (Ach.) Lutzoni, Hymenelia

epulotica (Ach.) Arnold, Ionaspis = Hymenelia

epulotica (Ach.) Lutzoni

epulotica var. arctica (Lyngé) H.Magn., Ionaspis = Hymenelia arctica (Lyngé) Lutzoni

epulotica var. cinerascens H.Magn., Ionaspis = Hymenelia rhodopis (Sommerf.) Lutzoni

epulotica var. crustosa H.Magn., Ionaspis = Hymenelia rhodopis (Sommerf.) Lutzoni

epulotica var. depauperata H.Magn., Ionaspis = Hymenelia rhodopis (Sommerf.) Lutzoni

epulotica var. macrocarpa Creveld, Ionaspis = Lecanora umbrosa Degel.

epulotica var. rhodopis H.Magn., Ionaspis = Hymenelia rhodopis (Sommerf.) Lutzoni

ericetorum Opiz, Cetraria

ericetorum (L.) Zahlbr., Icmadophila

ericetorum (Pers.:Fr.) M.Lange, Omphalina = Lichenomphalia umbellifera (L.:Fr.) Redhead et al.

ericetorum in Poelt & Oberwinkler, Omphalina = Lichenomphalia hudsoniana (H.S.Jenn.) Redhead et al.

erichsenii (Keissl.) Diederich & Sérus., Lauderlindsaya = Normandina acroglypta (Norman) Aptroot

erichsenii Räsänen, Nesolechia

erichsenii (Keissl.) Aptroot, Normandina = Normandina acroglypta (Norman) Aptroot

erichsenii Keissl., Thelidium = Normandina acroglypta (Norman) Aptroot

erichsenii Zschacke, Verrucaria

erikssonii H.Magn., Lecanora = Lecanora carpinea (L.) Vain.

ernstiae Feuerer & A.Thell, Parmelia

erodens M.S.Christ. & D.Hawksw., Lichenocodium

erosa (Weber) Ach., Gyrophora = Umbilicaria torrefacta (Lightf.) Schrad.

erosa (Weber) Hoffm., Umbilicaria = Umbilicaria torrefacta (Lightf.) Schrad.

erratica Körb., Lecidea = Micarea erratica (Körb.) Hertel et al.

erratica f. demarginata (Nyl.) Vain., Lecidea = Micarea erratica (Körb.) Hertel et al.

erratica (Körb.) R.C.Harris & Lendemer, Leimonis = Micarea erratica (Körb.) Hertel et al.

erratica (Körb.) Hertel et al., Micarea

erratica (Müll.Arg.) Hafellner & V.John, Muellerella

erratica T.Sprib., Xylographa

erraticum A.Massal., Tichothecium = Muellerella

erratica (Müll.Arg.) Hafellner & V.John

erubescens Arnold, Buellia

erumpens (Taylor) Elenk., Peltigera = Peltigera didactyla (With.) J.R.Laundon

erysibantha Nyl., Lecanora

erysibe (Ach.) Mudd, Lecania

erysiboides (Nyl.) Th.Fr., Catillaria

erysiboides Nyl., Lecidea = Catillaria erysiboides (Nyl.) Th.Fr.

erythrella (Ach.) Kieff., Caloplaca = Gyalolechia flavovirescens (Wulfen) Søchting et al.

erythrinella (Nyl.) Weese, Nectriella = Pronectria erythrinella (Nyl.) Lowen

erythrinella (Nyl.) Lowen, Pronectria

erythrinella Nyl., Sphaeria = Pronectria erythrinella (Nyl.) Lowen

erythrocarpa (Pers.) Zwackh, Caloplaca

erythrophaea (Flörke ex Sommerf.) Th.Fr., Biatora = Lecidea erythrophaea Flörke ex Sommerf.

erythrophaea H.Magn., Lecanora = Lecanora castaneoides H.Magn.

erythrophaea Flörke ex Sommerf., Lecidea

erythrosora Erichsen, Phlyctis = Phlyctis argena (Spreng.) Flot.

erythrozona Lettau, Gyalecta

erythrozona Lettau var. erythrozona, Gyalecta

erythrozona Lettau var. leprosula Vězda, Gyalecta

esorediata (Degel.) Lumbsch, Foraminella = Parmeliopsis esorediata (Degel.) Nordnes

esorediata (Degel.) Nordnes, Parmeliopsis

esthonica Räsänen, Usnea = Usnea barbata (L.) Weber ex F.H.Wigg.

etayana (van den Boom & Vězda) M. Hauck & V. Wirth, Bacidina

eucarpa (Nyl.) Hellb., Sarcogyne = Sarcogyne clavus (DC.) Kremp.

eucline Nyl., Mycoporum = Stigmatidium eucline (Nyl.) Vězda

eucline (Nyl.) Vězda, Stigmatidium

eumecospora Zschacke, Polyblastia

eupetraea Nyl., Lecidea = Rhizocarpon eupetraeum (Nyl.) Arnold

eupetraeoides Nyl., Lecidea = Rhizocarpon eupetraeoides (Nyl.) Blomb. & Forssell

eupetraeoides (Nyl.) Blomb. & Forssell, Rhizocarpon

eupetraeum (Nyl.) Arnold, Rhizocarpon

euphorea (Flörke) Nyl., Lecidea = Lecidella

euphorea (Flörke) Hertel

euphorea var. laureri (Hepp) Vain., Lecidea = Lecidella laureri (Hepp) Körb.

euphorea f. saxicola Räsänen, Lecidea = Lecidella effugiens (Nilson) Knoph & Hertel

euphorea (Flörke) Hertel, Lecidella

euphoroides sensu Fr., Lecidea = Ramboldia elabens (Fr.) Kantvilas & Elix

euploca (Ach.) Vain., Heppia = Peltula euploca (Ach.) Poelt

euploca (Ach.) Poelt, Peltula

europaeum H.Magn., Leprocollema = Gregorella humida (Kullh.) Lumbsch

europaea Gasparyan, Sipman & Lücking, Ramalina = Ramalina pollinaria (Westr.) Ach.

evolutoides (H.Magn.) Frey, Stereocaulon = Stereocaulon saxatile H.Magn.

evolutum Graewe, Stereocaulon

exanthematica (Sm.) Fr., Petractis = Petractis clausa (Hoffm.) Kremp.

exasperata (De Not.) Essl., Melanelia = Melanohalea exasperata (De Not.) O.Blanco et al.

exasperata (De Not.) O.Blanco et al., Melanohalea

exasperata De Not., Parmelia = Melanohalea exasperata (De Not.) O.Blanco et al.

exasperatula (Nyl.) Essl., Melanelia = Melanohalea exasperatula (Nyl.) O.Blanco et al.

exasperatula (Nyl.) O.Blanco et al., Melanohalea

exasperatula Nyl., Parmelia = Melanohalea exasperatula (Nyl.) O.Blanco et al.

exasperatum Ach., Collema = Melanohalea elegantula (Zahlbr.) O.Blanco et al.

excavata G.Thor & Timdal, Aspicilia = Acarospora moenium (Vain.) Räsänen

excentrica (Th.Fr.) Zahlbr., Allarthonia = Arthonia
excentrica Th.Fr.

excentrica Th.Fr., Arthonia

excentricum (Ach.) Arnold, Rhizocarpon =
Rhizocarpon petraeum (Wulfen) A.Massal.

excipienda (Nyl.) Leight., Arthonia

excipularis (H.Magn.) Cogt in Creveld, Aspicilia =
Aspicilia cinerea (L.) KÖrb.

excipularis H.Magn., Lecanora = Aspicilia cinerea
(L.) KÖrb.

excipulata Coppins, Micarea = Micarea lynceola (Th.
Fr.) Palice

excludens Malme, Lecanora

excludens (Nyl.) Hafellner, Lepra

excludens Nyl., Pertusaria = Lepra excludens (Nyl.)
Hafellner

excrescens (Arnold) Hav, Parmelia = Parmotrema
crinitum (Ach.) M.Choisy

excrescens var. pilosella (Hue) Lyngé, Parmelia =
Parmotrema crinitum (Ach.) M.Choisy

exerrans Nyl., Endococcus

exigua (Ach.) Gray, Rinodina

exigua var. inundata Blomb. ex Th.Fr., Rinodina =
Rinodina fimbriata KÖrb.

exigua f. lecideina (Nyl.) Th. Fr., Rinodina =
Rinodina archaea (Ach.) Arnold

exigua var. obscurata H.Magn., Rinodina = Rinodina
gennarii Bagl.

exiguella (Nyl.) Arnold, Cercidospora

exilis auct., Allarthonia = Arthonia apatetica (A.
Massal.) Th.Fr.

exilis auct., Arthonia = Arthonia apatetica (A.
Massal.) Th.Fr.

exilis (Flörke) Anzi, Arthonia

exilis var. tenellula f. inundata Vain., Arthonia =
Neocoleroa inundata (Vain.) Diederich

eximia Malme, Catillaria = Lecidea plana (J.Lahm)
Nyl.

eximia Hedl., Micarea

expallens Ach., Lecanora

expallescens Th.Fr., Rhizocarpon

expallescens subsp. glaucescens Th.Fr., Rhizocarpon
= Rhizocarpon glaucescens (Th.Fr.) Zahlbr.

expallida (Nyl.) Vain., Opisteria = Nephroma
expallidum (Nyl.) Nyl.

expallidum (Nyl.) Nyl., Nephroma

expansa Nyl. ex Mudd, Lecidea = Micarea erratica
(KÖrb.) Hertel et al.

expansum (Degel.) P.M.Jørg., Enchylium

exsecuta (Nyl.) Servít, Blastenia = Caloplaca
exsecuta (Nyl.) Dalla Torre & Sarnth.

exsecuta (Nyl.) Dalla Torre & Sarnth., Caloplaca

exsecuta var. subnigricans H.Magn, Caloplaca =
Caloplaca fuscorufa H.Magn.

exsequens Nyl., Lecidea = Puttea exsequens (Nyl.)
Printzen & Davydov

exsequens (Nyl.) Printzen & Davydov, Puttea

exserta (Nyl.) Tibell, Chaenothecopsis =
Chaenothecopsis hospitans (Th.Fr.) Tibell

exsertum (Nyl.) Vain., Strongyleuma =
Chaenothecopsis hospitans (Th.Fr.) Tibell

exsertum subsp. albipes Vain., Strongyleuma =
Chaenothecopsis hospitans (Th.Fr.) Tibell

exsertum subsp. hemileucum Vain., Strongyleuma =
Chaenothecopsis hospitans (Th.Fr.) Tibell

expersa Nyl., Lecanora

extendens Nyl., Collema = Cryptothele granuliformis
(Nyl.) Henssen

extendens (Nyl.) Forssell, Pyrenopsidium =
Cryptothele granuliformis (Nyl.) Henssen

extendens (Nyl.) Vain., Pyrenopsis = Cryptothele
granuliformis (Nyl.) Henssen

extensa (Vain.) Räsänen, Biatorella

extensa Vain., Usnea = Usnea glabrescens (Nyl. ex
Vain.) Vain. ex Räsänen

extenuata (H.Magn.), Aspicilia

extenuata H.Magn., Lecanora = Aspicilia extenuata
(H.Magn.)

extenuata Vain., Lecidea

extenuata (Nyl. ex Vain.) Lojka, Peltigera

fabispora Hertel & Zürn, Schaereria

fagicola (Zschacke) Hafellner & Türk, Fuscidea = Fuscidea cyathoides (Ach.) V. Wirth & Vězda var. corticola (Fr.) Kalb

fagicola (Hepp ex Arnold) Kremp., Gyalecta

fagicola (Hepp ex Arnold) Zwackh, Pachyphiale = Gyalecta fagicola (Hepp ex Arnold) Kremp.

faginea (Müll.Arg.) Redinger, Allarthonia = Arthonia faginea Müll.Arg.

faginea Müll.Arg., Arthonia

faginea (Schaer.) Swinscow, Arthopyrenia = Strigula stigmatella (Ach.) R.C.Harris

faginea auct., Pertusaria = Leptra amara (Ach.) Hafellner

faginea (Schaer.) Arnold, Porina = Strigula stigmatella (Ach.) R.C.Harris

fahlunensis sensu Schaer. etc., Cetraria = Melanelia hepatizon (Ach.) A.Thell

fahlunensis sensu Vain. etc., Cetraria = Cetrariella commixta (Nyl.) A.Thell & Kärnefelt

fahlunensis auct. p.p., Cetraria = Melanelia stygia (L.) Essl.

fallax (Nyl.) Arnold, Arthopyrenia = Arthopyrenia analepta (Ach.) A.Massal.

fallax (Körb.) Lettau, Bacidia = Bacidia fraxinea Lönnr.

fallax Hepp, Biatora

fallax (Ach.) Grube, Coniocarpon

fallax (Nyl.) Vain., Didymella = Arthopyrenia analepta (Ach.) A.Massal.

fallax De Not., Dirina

fallax (Nyl.) H.Riedl, Leiophloea = Arthopyrenia analepta (Ach.) A.Massal.

fallax Launis & Myllys, Micarea

fallax Motyka, Ramalina = Ramalina farinacea (L.) Ach.

fallax H.Magn., Sarcogyne = Sarcogyne distinguenda Th.Fr.

fallax (Hepp) Søchting et al., Xanthomendoza

fallax (Hepp) Arnold, Xanthoria = Xanthomendoza fallax (Hepp) Søchting et al.

farinacea (H.Olivier) R.Sant., Arthonia

farinacea (Chevall.) Nyl., Coniocybe = Sclerophora farinacea (Chevall.) Chevall.

farinacea Zopf, Hypogymnia

farinacea (H.Olivier) Vouaux, Mycobilimbia = Arthonia farinacea (H.Olivier) R.Sant.

farinacea H.Magn., Pertusaria = Lecanora impudens Degel.

farinacea (L.) Ach., Ramalina

farinacea var. angustissima Anzi, Ramalina = Ramalina subfarinacea (Nyl. ex Cromb.) Nyl.

farinacea var. rubescens Räsänen, Ramalina = Ramalina subfarinacea (Nyl. ex Cromb.) Nyl.

farinacea (Chevall.) Chevall., Sclerophora

farinaceum H.Magn., Stereocaulon = Stereocaulon capitellatum H.Magn.

farinaria Borrer, Lecanora

farinosa Malme, Buellia = Ochrolechia turneri (Sm.) Hasselrot

farinosa Stenh., Lecidea = Lecanographa amylicia (Ehrh. ex Pers.) Egea & Torrente

farinosa (Hoffm.) Ach., Lepraria

farinosa Coppins & Aptroot, Micarea

farrea Ach., Parmelia = Physconia grisea (Lam.) Poelt

farrea auct., Physcia = Physconia perisidiosa (Erichsen) Moberg

farrea sensu Poelt., Physconia = Physconia perisidiosa (Erichsen) Moberg

farrea auct., Pyrenula = Eopyrenula leucoplaca (Wallr.) R.C.Harris

fasciculare (L.) Weber ex F.H.Wigg., Collema = Gabura fasciculare (L.) P.M.Jørg.

fasciculare (L.) P.M.Jørg., Gabura

fascicularis (L.) Otálora & Wedin, Arctomia =
Gabura fasciculare (L.) P.M.Jørg.

fastigiata (Delise ex Nyl.) Kärnefelt, Cetraria =
Cetrariella fastigiata (Delise ex Nyl.) Kärnefelt & A.
Thell

**fastigiata (Delise ex Nyl.) Kärnefelt & A.Thell,
Cetrariella**

fastigiata (Pers.) Ach., Ramalina

fastigiatum Anzi, Stereocaulon = Stereocaulon
botryosum Ach.

fastigiatum f. confluens H.Magn., Stereocaulon =
Stereocaulon depressum (Frey) I.M.Lamb

fastigiatum f. depressum H.Magn., Stereocaulon =
Stereocaulon depressum (Frey) I.M.Lamb

faticens (Th.Fr.) Vain., Rinodina = Rinodina aspersa
(Borrer) J.R.Laundon

fecunda (Th.Fr.) Vězda & Poelt, Schadonia

fecundum Th.Fr., Lopadium = Schadonia fecunda
(Th.Fr.) Vězda & Poelt

fensionense (Fr.) Trevis., Psoroma = Psoroma
hypnorum (Vahl) Gray var. hypnorum

fennica H.Magn., Acarospora

fennica Vain., Belonia = Gyalecta russula (Körb. ex
Nyl.) Baloch et al.

fennica (Laurila) Tibell, Chaenothecopsis

fennica Räsänen, Lecidea = Lecidella carpathica
Körb.

fennica Alstrup, Libertiella

fennica Launis & Myllys, Micarea

fennicum Laurila, Embolidium = Chaenothecopsis
fennica (Laurila) Tibell

fennicum Räsänen, Leciophysma = Lempholemma
intricatum (Arnold) Zahlbr.

fennicum (Räsänen) Degel., Lempholemma =
Lempholemma intricatum (Arnold) Zahlbr.

ferax H.Magn., Rhizocarpon

ferruginea auct., non (Huds.) A.Massal., Blastenia =
Blastenia relicta Arup & Vondrák

ferruginea auct., non (Huds.) Th.Fr., Caloplaca =
Blastenia relicta Arup & Vondrák

ferruginea var. ammiospila (Wahlenb.) Th.Fr.,
Caloplaca = Blastenia ammiospila (Wahlenb.) Arup
et al.

ferruginea var. cinnamomea Th.Fr., Caloplaca =
Blastenia ammiospila (Wahlenb.) Arup et al.

ferruginea var. festiva (Ach.) Th.Fr., Caloplaca =
Blastenia crenularia (With.) Arup et al.

ferruginea var. fraudans Th.Fr., Caloplaca =
Caloplaca fraudans (Th.Fr.) H.Olivier

ferruginea var. melanocarpa Th.Fr., Caloplaca =
Parvoplaca tiroliensis (Zahlbr.) Arup et al.

ferruginea var. melanocarpa auct. non Th.Fr.,
Caloplaca = Caloplaca concilians (Nyl.) H.Olivier

ferruginea var. nigricans (Tuck.) Th.Fr. p.p.,
Caloplaca = Caloplaca concilians (Nyl.) H.Olivier

ferruginea var. obscura Th.Fr., Caloplaca =
Caloplaca atroflava (Turner) Mong.

ferruginea f. vacillans Th.Fr., Caloplaca = Blastenia
ammiospila (Wahlenb.) Arup et al.

ferruginea (Turner ex Sm.) Mig., Chaenotheca

ferruginea (Lettau) M.Steiner, Polysporina =
Acarospora subfuscescens (Nyl.) H.Magn.

ferrugineum var. ammiospiolides Vain., Placodium =
Blastenia relicta Arup & Vondrák

festiva (Ach.) Zwackh, Caloplaca = Blastenia
crenularia (With.) Arup et al.

festivella (Nyl.) Kieff., Caloplaca

fibrillosa Motyka, Usnea = Usnea dasopoga (Ach.)
Nyl.

figulina (Norman) Lumbsch & D.Hawksw.,
Lethariicola = Sphaeropezia figulina (Norman)
Baloch & Wedin

figulina Norman, Limborina = Sphaeropezia figulina
(Norman) Baloch & Wedin

figulina (Norman) Baloch & Wedin, Sphaeropezia

figulinum (Norman) Diederich, Odontotrema =
Sphaeropezia figulina (Norman) Baloch & Wedin

filamentosa (Stirt.) Elix & Palice, Lecanora =
Palicella filamentosa (Stirt.) Rodr.Flakus & Printzen

**filamentosa (Stirt.) Rodr.Flakus & Printzen,
Palicella**

filipendula Stirt., Usnea = Usnea dasopoga (Ach.)
Nyl.

fimbriata (L.) Fr., Cladonia

fimbriata var. coniocraea (Flörke) Nyl., Cladonia =
Cladonia coniocraea (Flörke) Spreng.

fimbriata var. cornutoradiata (Leight.) Vain.,
Cladonia = Cladonia subulata (L.) Weber ex F.H.
Wigg.

fimbriata var. nemoxya (Ach.) Coem., Cladonia =
Cladonia rei Schaer.

fimbriata var. ochrochlora (Flörke) Schaer., Cladonia
= Cladonia ochrochlora Flörke

fimbriata Körb., Rinodina

fimbriatae (Vain.) Keissl., Guignardia =
Lichenosticta alcornaria (Linds.) D.Hawksw.

finkii (B.de Lesd.) R.C.Harris, Lepraria

finmarkicum Th.Fr., Leciophysma

finmarkica Zschacke, Verrucaria = Hydropunctaria
maura (Wahlenb.) C.Keller et al.

firma (Nyl.) Nyl., Cladonia

firma (Nyl.) Arnold, Rinodina = Rinodina confragosa
(Ach.) Körb.

fissa (Taylor) Zwackh, Staurothele

fissuriseda (Poelt) Timdal et al., Bryobilimbia

fissuriseda Poelt, Lecidea = Bryobilimbia fissuriseda
(Poelt) Timdal et al.

fissuriseda (Poelt) Poelt & Hafellner, Mycobilimbia
= Bryobilimbia fissuriseda (Poelt) Timdal et al.

fissurisedens Hafellner, Sagediopsis

flabelliforme Tibell, Phaeocalicium

flabelliformis B.Sutton, Cheiromycina

flabelliformis Vain., Cladonia = Cladonia
polydactyla (Flörke) Spreng.

flabellusum (Tuck.) Zahlbr., Placynthium

flaccidum (Ach.) Ach., Collema

flammea Stirt., Usnea

flava (Schreb.) Sm., Lepraria = Chrysothrix
candelaris (L.) J.R.Laundon

flava (Sommerf.) M.Lange, Omphalina =
Lichenomphalia alpina (Britzelm.) Redhead et al.

flavella Blomb., Biatora = Lecanora phaeostigma
(Körb.) Almb.

flavella (Nyl.) Lettau, Biatorella

flaveola Arnold, Thelopsis

flavescens Rehm, Agyrium = Skyttella mulleri
(Willey) D.Hawksw. & R.Sant.

flavescens (Huds.) J.R.Laundon, Caloplaca =
Variospora flavescens (Huds.) Arup et al.

flavescens Cl.Roux & Tønsberg, Lepraria =
Lecanora rouxii S.Ekman & Tønsberg

flavescens (Huds.) Arup et al., Variospora

flavicans Lamy, Pertusaria

flavicunda Ach., Lecidea = Porpidia flavicunda
(Ach.) Gowan

flavicunda (Ach.) Gowan, Porpidia

flavida (Hepp) Rehm, Aspicilia = Eiglera flavida
(Hepp) Hafellner

flavida (Hepp) Hafellner, Eiglera

flavida Hepp, Lecanora = Eiglera flavida (Hepp)
Hafellner

flavida (DC.) J.R.Laundon, Pertusaria

flavidulum Hafellner & Kalb, Cliostomum

flavocitrina (Nyl.) H.Olivier, Caloplaca = Flavoplaca
flavocitrina (Nyl.) Arup et al.

flavocitrina (Nyl.) Arup et al., Flavoplaca

flavocoerulescens (Hornem.) Hertel, Huilia =
Porpidia flavicunda (Ach.) Gowan

flavocoerulescens var. ochracea (Lyng.) Degel.,
Huilia = Porpidia melinodes (Körb.) Gowan & Ahti

flavocoerulescens Hornem., Lecidia = Porpidia
flavicunda (Ach.) Gowan

flavocoerulescens (Hornem.) Hertel & A.J.Schwab,
Porpidia = Porpidia flavicunda (Ach.) Gowan

flavocoralina Coppins & Muhr, Pertusaria

flavocruenta Fryday & Buschbom, Porpidia

flavoleprosa Tønsberg, Lecanora

**flavopunctata (Tønsberg) Hinter. & Printzen,
Biatora**

flavopunctata Tønsberg, Lecanora = Biatora

flavopunctata (Tønsberg) Hinter. & Printzen

flavorubescens (Huds.) J.R.Laundon, Caloplaca =
Gyalolechia flavorubescens (Huds.) Søchting et al.

flavorubescens subsp. flavovirescens (Wulfen)
Clauzade & Cl.Roux, Caloplaca = Gyalolechia
flavovirescens (Wulfen) Søchting et al.

**flavorubescens (Huds.) Søchting et al.,
Gyalolechia**

flavosoralifera Tønsberg, Rinodina

flavosorediata Vězda, Lecidea = Lecidella

flavosorediata (Vězda) Hertel & Leuckert

**flavosorediata (Vězda) Hertel & Leuckert,
Lecidella**

flavovirens Tønsberg, Chrysothrix

flavovirescens (Dicks.) Th.Fr., Arthrorhaphis =
Arthrorhaphis citrinella (Ach.) Poelt

flavovirescens (Dicks.) Anzi, Bacidia =
Arthrorhaphis citrinella (Ach.) Poelt

flavovirescens var. detrita Vain., Bacidia =
Arthrorhaphis citrinella (Ach.) Poelt

flavovirescens (Wulfen) Dalla Torre & Sarnth.,
Caloplaca = Gyalolechia flavovirescens (Wulfen)
Søchting et al.

**flavovirescens (Wulfen) Søchting et al.,
Gyalolechia**

flavum (Bellardi) Körb., Pleopsidium

flexella (Ach.) Lumbsch, Elixia

flexella (Ach.) Hedl., Lecidea = Elixia flexella
(Ach.) Lumbsch

flexella (Ach.) M.Choisy, Leptographa = Elixia
flexella (Ach.) Lumbsch

flexella (Ach.) Zahlbr., Lithographa = Elixia flexella
(Ach.) Lumbsch

flexella (Ach.) Coppins, Ptychographa = Elixia
flexella (Ach.) Lumbsch

flexella (Ach.) Fr., Xylographa = Elixia flexella
(Ach.) Lumbsch

flexispora D.Hawksw., Everniicola

flexuosa Motyka, Alectoria = Bryoria implexa
(Hoffm.) Brodo & D.Hawksw.

flexuosa Fr., Biatora = Trapeliopsis flexuosa (Fr.)
Coppins & P.James

flexuosa, Lecidea = Trapeliopsis flexuosa (Fr.)
Coppins & P.James

flexuosa Selva & Tibell, Stenocybe

flexuosa (Fr.) Coppins & P.James, Trapeliopsis

flocculosa (Wulfen) Hoffm., Umbilicaria =
Umbilicaria deusta (L.) Baumg.

floerkeana (Fr.) Flörke, Cladonia

floerkeana Dalla Torre & Sarnth., Verrucaria

floerkei Zahlbr., Calicium = Chaenothecopsis pusilla
(Ach.) A.F.W.Schmidt

florida (L.) Weber ex F.H.Wigg., Usnea

flotoviana auct., Lecanora = Myriolecis semipallida
(H.Magn.) Śliwa et al.

flotoviana Spreng., Lecanora

flotowiana (Hepp) Müll.Arg., Psorotichia =
Pyrenocarpon thelostomum (Ach. ex J.Harriman)
Coppins & Aptroot

flotowiana (Hepp) Nyl., Pyrenopsis = Pyrenocarpon
thelostomum (Ach. ex J.Harriman) Coppins &
Aptroot

flotowianum (Hepp) Trevis., Pyrenocarpon =
Pyrenocarpon thelostomum (Ach. ex J.Harriman)
Coppins & Aptroot

flotowii Körb., Gyalecta

fluviatile (Weber) Th.Fr., Dermatocarpon =
Dermatocarpon luridum (With.) J.R.Laundon

**fluviatilis A.Nordin & Owe-Larss., Aspicilia
foliacea (Huds.) Willd., Cladonia**

- foliacea subsp. convoluta (Lam.) Suza, Cladonia = Cladonia foliacea (Huds.) Willd.
- foliacea var. convoluta (Lam.) Vain., Cladonia = Cladonia foliacea (Huds.) Willd.
- foliaceiphila (Diederich et al.) Ertz & Diederich, Didymocyrtis**
- foliata (Arnold) Kernst. Torre & Sarth., Cladonia = Cladonia acuminata (Ach.) Norrl.
- fontigenum A.Massal., Thelidium**
- forana (Anzi) Arnold, Polyblastia**
- formosa (Bagl. & Carestia) Knoph & Leuckert, Lecanora**
- formosa Bagl. & Carestia, Lecidea = Lecanora formosa (Bagl. & Carestia) Knoph & Leuckert
- formosum Orange, Placopyrenium**
- fossarum (Dufour ex Fr.) Th.Fr., Biatorella**
- fossarum auct., Biatorella = Biatorella hemisphaerica Anzi
- fossarum var. rubicunda (Th.Fr.) Th.Fr., Biatorella = Biatorella hemisphaerica Anzi
- foveata Vain., Usnea = Usnea barbata (L.) Weber ex F.H.Wigg.
- foveata Vain., Usnea = Usnea hirta (L.) Weber ex F.H.Wigg.
- foveolaris (Ach.) Schaer., Gyalecta**
- foveolaris var. lutea (denudata) Sommerf., Lecidea = Gyalecta friesii Flot. ex Körb.
- foveolata A.L.Sm., Arthopyrenia = Collemopsidium foveolatum (A.L.Sm.) F.Mohr
- foveolata Vain., Usnea = Usnea barbata (L.) Weber ex F.H.Wigg.
- foveolata (Flörke) A.Massal., Verrucaria**
- foveolatum (A.L.Sm.) F.Mohr, Collemopsidium**
- foveolatum (A.L.Sm.) F.Mohr, Pyrenocollema = Collemopsidium foveolatum (A.L.Sm.) F.Mohr
- fragilescens Hav., Usnea**
- fragilescens Hav. var. fragilescens, Usnea = Usnea fragilescens Hav.
- fragilescens var. mollis (Vain.) P.Clerc, Usnea = Usnea fragilescens Hav.
- fragilis (Scop.) Zahlbr., Lecanora = Squamarina gypsacea (Sm.) Poelt
- fragilis (L.) Pers., Sphaerophorus**
- fragilissima Østh. & P.James, Cladonia = Cladonia callosa Delise ex Harm.
- fragrans (Sm.) Ach., Collema = Scytinium fragrans (Sm.) Otálora et al.
- fragrans (Sm.) Otálora et al., Scytinium**
- fraterculans Nyl., Lecidea = Micarea peliocarpa (Anzi) Coppins & R.Sant.
- fraudans (Th.Fr.) H.Olivier, Caloplaca**
- fraudans f. latispora Lyngae, Caloplaca = Caloplaca latispora (Lyngae) H.Magn.
- fraudans (Nyl.) Nyl., Parmelia**
- fraudulosa Nyl., Verrucaria**
- fraxinea Lönnr., Bacidia**
- fraxinea (L.) Ach., Ramalina**
- fraxini A.Massal., Arthopyrenia = Naetrocymbe fraxini (A.Massal.) R.C.Harris
- fraxini (A.Massal.) R.C.Harris, Naetrocymbe**
- fremontii Tuck., Alectoria = Bryoria fremontii (Tuck.) Brodo & D.Hawksw.
- fremontii subsp. olivacea Räsänen, Alectoria = Bryoria fremontii (Tuck.) Brodo & D.Hawksw.
- fremontii (Tuck.) Brodo & D.Hawksw., Bryoria**
- freyi H.Magn., Lecidea**
- freyi Erichsen, Pertusaria = Megaspora verrucosa (Ach.) Hafellner & V.Wirth
- freyi H.Magn., Rinodina**
- friesiana (Hepp) Körb., Bacidia**
- friesiana var. hollolensis Vain., Bacidia = Bacidia friesiana (Hepp) Körb.
- friesii H.Magn., Caloplaca = Parvoplaca tirolensis (Zahlbr.) Arup et al.
- friesii Flot. ex Körb., Gyalecta**

friesii (Ach.) P.James & Gotth. Schneid.,
Hypocnomyce = Xylopsora friesii (Ach.) Bendiksby
& Timdal

friesii Ach., Lecidea = Xylopsora friesii (Ach.)
Bendiksby & Timdal

friesii (Keissl.) Nik.Hoffm. & Hafellner, Obryzum

friesii Keissl., Physalospora = Obryzum friesii
(Keissl.) Nik.Hoffm. & Hafellner

friesii Lynge, Polyblastia

friesii Hellb., Psora = Xylopsora friesii (Ach.)
Bendiksby & Timdal

friesii (Ach.) Bendiksby & Timdal, Xylopsora

frigida Hafellner, Dactylospora = Sclerococcum
frigidum (Hafellner) Ertz & Diederich

frigida J.R.Laundon, Lepraria = Lepraria eburnea J.
R.Laundon

frigida (Sw.) Lynge, Ochrolechia

frigida var. grimmiae (Lynge) Malme, Ochrolechia =
Ochrolechia grimmiae Lynge

frigida f. lapuënsis (Vain.) Tønberg, Ochrolechia =
Ochrolechia frigida (Sw.) Lynge

frigida (Sacc.) Vouaux, Pharcidia = Stigmatium
frigidum (Sacc.) Alstrup & D.Hawksw.

frigidella Nyl., Lecidea = Japewia tornöensis (Nyl.)
Tønberg

frigidum Räsänen, Rhizocarpon

**frigidum (Hafellner) Ertz & Diederich,
Sclerococcum**

**frigidum (Sacc.) Alstrup & D.Hawksw.,
Stigmatium**

frippii Holt.-Hartw., Peltigera

frisiaca Erichsen, Verrucaria = Verrucaria halophila
Branth & Rostr.

fritzei Stein, Gyallecta = Gyalidea fritzei (Stein)
Vězda

fritzei (Stein) Vězda, Gyalidea

fritzei var. rivularis (Eitner) Vězda, Gyalidea =
Gyalidea rivularis (Eitner) Nowak & Tobol.

frustulenta H.Magn., Lecidea

frustulenta Vain., Staurothele

frustulosa (Dicks.) Ach., Lecanora

frustulosa auct., Lecanora = Lecanora argopholis
(Ach.) Ach.

frustulosa var. ludwigii (Spreng.) Th.Fr., Lecanora =
Lecanora frustulosa (Dicks.) Ach.

frustulosae (Vouaux) Hafellner, Roselliniella =
Rosellinula frustulosae (Vouaux) R.Sant.

frustulosae (Vouaux) R.Sant., Rosellinula

fruticola M.Svensson & G.Thor, Gyalidea =
Thelenella pertusariella (Nyl.) Vain.

fucata Stirt., Lecidea = Violella fucata (Stirt.) T.
Sprib.

fucata (Stirt.) T.Sprib., Violella

fucatus (Stirt.) Zahlbr., Mycoblastus = Violella
fucata (Stirt.) T.Sprib.

**fuckelii (Rehm) D.Hawksw. & R.Sant.,
Corticifraga**

fuckelii Sacc., Nectria = Pronectria tinctoria (Fuckel)
Lowen

fuckelii auct., Nectriella = Pronectria santessonii
(Lowen & D.Hawksw.) Lowen

fuckelii Rehm, Phragmonaevia = Corticifraga
fuckelii (Rehm) D.Hawksw. & R.Sant.

fueistingii Korb., Lahmia = Arthrorhaphis grisea Th.
Fr.

fugax Rehm, Polyblastia

fugiens Nyl., Lecanora = Myriolecis fugiens (Nyl.)
Śliwa et al.

fugiens (Nyl.) Śliwa et al., Myriolecis

fuistingii auct., Thelidium = Thelidium zwackhii
(Hepp) A.Massal.

fulgens (Sw.) Korb., Caloplaca = Gyalolechia
fulgens (Sw.) Søchting et al.

fulgens (Sw.) Elenk., Fulgensia = Gyalolechia
fulgens (Sw.) Søchting et al.

fulgens (Sw.) Søchting et al., Gyalolechia

fulgens (Sw.) Ach., Lecanora = Gyalolechia fulgens
(Sw.) Søchting et al.

fuliginascens Nyl., Collemopsis = Psorotichia
fuliginascens (Nyl.) Forssell

fuliginascens (Nyl.) Forssell, Psorotichia

fuliginea Ach., Lecidea = Placynthiella icmalea
(Ach.) Coppins & P.James

fuliginea Ach., Verrucaria = Thelignya lignyota
(Wahlenb.) P.M.Jørg. & Henssen

fuliginoides Magain & Sérus., Sticta

fuliginosa Hav., Gyrophora = Umbilicaria havaasii
Llano

fuliginosa Taylor, Lecidea

fuliginosa (Fr. ex Duby) Essl., Melanelia =
Melanelixia fuliginosa (Fr. ex Duby) O.Blanco et al.

fuliginosa subsp. glabratula (Lamy) Coppins,
Melanelia = Melanelixia glabratula (Lamy) Sandler
& Arup

**fuliginosa (Fr. ex Duby) O.Blanco et al.,
Melanelixia**

fuliginosa subsp. glabratula (Lamy) Laundon,
Melanelixia = Melanelixia glabratula (Lamy) Sandler
& Arup

fuliginosa (Fr. ex Duby) Nyl., Parmelia =
Melanelixia fuliginosa (Fr. ex Duby) O.Blanco et al.

fuliginosa var. laetevirens (Flot. ex Körb.) Nyl.,
Parmelia = Melanelixia glabratula (Lamy) Sandler &
Arup

fuliginosa (Hoffm.) Ach., Sticta

fuliginosa f. ciliata Degel., Sticta = Sticta ciliata
Taylor

fuliginosa f. propagulifera Vain. ex H. Magn., Sticta
= Sticta fuliginoides Magain & Sérus.

fuliginosa auct. europ. p.p., non (Hoffm.) Ach.,
Sticta = Sticta ciliata Taylor

fuliginosa (Hav. ex Lynge) Frey, Umbilicaria =
Umbilicaria havaasii Llano

fulva (Hoffm.) Söchting et al., Xanthomendoza

fulva (Hoffm.) Poelt & Petutschnig, Xanthoria =
Xanthomendoza fulva (Hoffm.) Söchting et al.

fulvoreaegens (Räsänen) Räsänen, Usnea = Usnea
glabrescens (Nyl. ex Vain.) Vain. ex Räsänen

fumago (Wallr.) Mudd, Arthopyrenia = Naetrocymbe
rhypona (Ach.) R.C.Harris

fumosa (Hoffm.) Ach., Lecidea = Lecidea fuscoatra
(L.) Ach.

funckii (Spreng.) Zahlbr., Verrucaria

funera Sommerf., Lecidea = Ropalospora lugubris
(Sommerf.) Poelt

fungiformis Scop., Lichen = Baeomyces rufus
(Huds.) Rebert.

furcata (Huds.) Schrad., Cladonia

furcata var. scabriuscula (Delise) Coem., Cladonia =
Cladonia scabriuscula (Delise) Nyl.

furcata subsp. subrangiformis (Sandst.) Abbayes,
Cladonia = Cladonia subrangiformis Sandst.

furcellata R.Sant., Alectoria = Alectoria nigricans
(Ach.) Nyl.

furcellata (Fr.) Brodo & D.Hawksw., Bryoria

furfuracea Anzi, Biatora = Frutidella furfuracea
(Anzi) M.Westb. & M.Svensson

furfuracea (H.Magn.) Arup et al., Blastenia

furfuracea H.Magn., Caloplaca = Blastenia
furfuracea (H.Magn.) Arup et al.

furfuracea (L.) Tibell, Chaenotheca

furfuracea (L.) Ach., Coniocybe = Chaenotheca
furfuracea (L.) Tibell

furfuracea (L.) W. Mann, Evernia = Pseudevernia
furfuracea (L.) Zopf

**furfuracea (Anzi) M.Westb. & M.Svensson,
Frutidella**

furfuracea Vězda, Lecania

furfuracea (Anzi) Jatta, Lecidea = Frutidella
furfuracea (Anzi) M.Westb. & M.Svensson

furfuracea (L.) Ach., Parmelia = Pseudevernia
furfuracea (L.) Zopf

furfuracea (L.) Zopf, Pseudevernia

furfuraceum (Arnold) Du Rietz, Collema

furfurascens (Nyl.) Gyeln., Leciophysma

furfurascens Nyl., Pannaria = Leciophysma
furfurascens (Nyl.) Gyeln.

furfurascens (Nyl.) Lyngé, Parmeliella = Parmeliella
triptophylla (Ach.) Müll.Arg.

furfurea (Nyl.) Leight., Pyrenopsis

furfurellum Nyl., Collema = Porocyphus coccodes
(Flot.) Körb.

furfurellus (Nyl.) Forssell, Porocyphus = Porocyphus
coccodes (Flot.) Körb.

furfureum (Nyl.) Forssell, Pyrenopsidium =
Pyrenopsis furfurea (Nyl.) Leight.

furfurosum H.Magn. & Poelt, Rhizocarpon

**furvella (Nyl. ex Mudd) M.Westb. & Resl,
Lambiella**

furvella Nyl. ex Mudd, Lecidea = Lambiella furvella
(Nyl. ex Mudd) M.Westb. & Resl

furvella (Nyl. ex Mudd) Hertel & Rambold,
Rimularia = Lambiella furvella (Nyl. ex Mudd) M.
Westb. & Resl

furvellum Räsänen, Collema = Collema glebulentum
(Nyl. ex Cromb.) Degel.

furvescens (Nyl.) A. L. Sm., Porina = Porina
mammillosa (Th.Fr.) Vain.

furvescens Nyl., Verrucaria = Porina mammillosa
(Th.Fr.) Vain.

furvum (Ach.) DC., Collema = Lathagrium
fuscovirens (With.) Otálora et al.

fusarioides D.Hawksw. et al., Woessia = Bacidina
modesta (Zwackh ex Vain.) S.Ekman

fusca auct. Succ., Acarospora = Myriospora
rufescens (Ach.) Hepp ex Uloth

fusca (Huds.) Vain., Anaptychia = Anaptychia
runcinata (With.) J.R.Laundon

fusca (A.Massal.) Hepp, Arthonia

fusca (A.Massal.) Du Rietz, Bacidina = Mycobilimbia
tetramera (De Not.) Vitik. et al. ex Hafellner & Türk

fusca (Schaer.) Th.Fr., Lecidea = Bryobilimbia
hypnorum (Lib.) Fryday et al.

fusca (A.Massal.) Hafellner & V.Wirth,
Mycobilimbia = Mycobilimbia tetramera (De Not.)
Vitik. et al. ex Hafellner & Türk

**fusca (Triebe & Rambold) Pérez-Ortega,
Nesolechia**

fusca (Triebe & Rambold) Diederich, Phacopsis =
Nesolechia fusca (Triebe & Rambold) Pérez-Ortega

fusca Savić & Tibell, Polyblastia

fusca Pers., Verrucaria

fuscata (Schrad.) Th.Fr., Acarospora

fuscata subsp. discreta sensu Th.Fr., Acarospora =
Acarospora veronensis A.Massal.

fuscatae Arnold, Arthopyrenia = Stigmatidium
fuscatae (Arnold) R.Sant.

fuscatae (Arnold) R.Sant., Stigmatidium

fuscata Nyl., Pyrenopsis = Pyrenopsis subareolata
Nyl.

fuscella (Schaer.) A.Massal., Lecania

fuscella (Fr.) Almb., Opegrapha = Opegrapha
vermicellifera (Kunze) J.R.Laundon

fuscella (Turner) Winch, Verrucaria =
Placopyrenium fuscillum (Turner) Gueidan & Cl.
Roux

**fuscillum (Turner) Gueidan & Cl.Roux,
Placopyrenium**

fusciscens Gyeln., Alectoria = Bryoria fusciscens
(Gyeln.) Brodo & D.Hawksw.

fusciscens (Gyeln.) Brodo & D.Hawksw., Bryoria

fusciscens (Sommerf.) Nyl., Lecanora

fusciscens var. boligera (Norman) H.Magn.,
Lecanora = Lecanora boligera (Norman ex Th.Fr.)
Hedl.

fusciscens Sommerf., Lecidea = Lecanora
fusciscens (Sommerf.) Nyl.

fusciscens f. boligera Norman ex Th.Fr., Lecidea =
Lecanora boligera (Norman ex Th.Fr.) Hedl.

fuscidula (Arnold) Vain. ex Almq., Alectoria

fuscireagens auct., Arthrorhaphis = Arthrorhaphis
muddii Obermayer

fuscireagens Vain., Lecidea = Arthrorhaphis grisea
Th.Fr.

fuscoargillacea Anzi, Polyblastia

fuscoatra auct., Caloplaca = Caloplaca aractina (Fr.)
Häyren

fuscoatra (L.) Ach., Lecidea

fuscoatra v.subcontigua Fr., Lecidea = Lecidea
grisella Flörke ex Schaer.

fuscoatra Pers., Verrucaria = Verrucaria nigrescens
Pers.

fuscoatroides Servít, Verrucaria

fuscocinerea auct., Lecidea = Lambiella gyrizans
(Nyl.) M.Westb. & Resl

fuscocinerea Nyl., Lecidea = Schaereria fuscocinerea
(Nyl.) Clauzade & Cl.Roux

**fuscocinerea (Nyl.) Clauzade & Cl.Roux,
Schaereria**

fuscocuprea (Nyl.) Zschacke, Staurothele =
Staurothele clopima (Wahlenb.) Th.Fr.

fuscoferruginea Vain., Lecidea = Miriquidica
plumbeoatra (Vain.) A.J.Schwab & Rambold

fuscolurida Vain., Verrucaria

fuscolutea (Dicks.) R.Sant., Brigantiaea

fuscoluteum (Dicks.) Mudd, Lopadium = Brigantiaea
fuscolutea (Dicks.) R.Sant.

fusconigrescens Nyl., Verrucaria

fuscopurpurea (Tul.) R.Sant., Arthonia

fuscopurpureum Tul., Celidium = Arthonia
fuscopurpurea (Tul.) R.Sant.

fuscoreagens (Vain.) Poelt, Arthrorhaphis =
Arthrorhaphis grisea Th.Fr.

fuscoreagens (Vain.) Vain., Bacidia = Arthrorhaphis
grisea Th.Fr.

fuscorubella (Ach.) Bausch, Bacidia = Bacidia
polychroa (Th.Fr.) Körb.

fuscorubens (Nyl.) Nyl., Lecidea = Clauzadea
monticola (Schaer.) Hafellner & Bellem.

fuscorufa H.Magn., Caloplaca

fuscorufescens Vain., Baeomyces = Baeomyces
carneus Flörke

fuscorufescens f. vaginatus Vain., Baeomyces =
Baeomyces carneus Flörke

**fuscosora (Muhr & Tønsberg) M.Westb. & Resl,
Lambiella**

fuscosora Muhr & Tønsberg, Rimularia = Lambiella
fuscosora (Muhr & Tønsberg) M.Westb. & Resl

fuscosquamosum Räsänen, Rhizocarpon

fuscovolutina Servít, Verrucaria

fuscovirens (With.) J.R.Laundon, Collema =
Lathagrium fuscovirens (With.) Otálora et al.

fuscovirens (With.) Otálora et al., Lathagrium

fuscoviridis (Anzi) Lettau, Bacidia

fuscozonata Pykälä et al., Verrucaria

fuscula Nyl., Verrucaria = Heteroplacidium fuscum
(Nyl.) Gueidan & Cl.Roux

**fuscum (Nyl.) Gueidan & Cl.Roux,
Heteroplacidium**

fusiger Th.Fr. & Almq., Endococcus

fusispora (Th.Fr.) Almq., Arthonia = Arthothelium
fusisporum (Th.Fr.) Zahlbr.

fusispora (Körb.) Th.Fr., Toninia = Toniniopsis
aromatica (Sm.) Kistenich et al.

fusisporella Nyl., Graphis = Spirographa fusisporella
(Nyl.) Zahlbr.

fusisporella (Nyl.) Zahlbr., Spirographa

fusisporum (Th.Fr.) Zahlbr., Arthothelium

galactina Ach., Lecanora = Myriolecis albescens
(Hoffm.) Śliwa et al.

galactinae, Physalospora = Physalospora galatiniae
Vouaux

galactinaria Leight., Arthonia

galatiniae Vouaux, Physalospora

galindezii Øvstedal, Cladonia

galligena Hafellner & Nav.-Ros., Cercidospora

galligenum Vězda, Polycoccum = Polycoccum
pulvinatum (Eitner) R.Sant.

galligenum D.Hawksw., Refractohilum

gallurae Vězda & Poelt, Scoliciosporum

gangaleoides Nyl., Lecanora

gangaliza Nyl., Lecanora

garovaglii Mont., Endocarpon = Endocarpon
pusillum Hedw.

garovaglii Schaer., Lecidea = Miriquidica garovaglii
(Schaer.) Hertel & Rambold

**garovaglii (Schaer.) Hertel & Rambold,
Miriquidica**

garovaglii auct., Placynthium = Placynthium caesium
(Fr.) Jatta

garovaglii (A.Massal.) Malme, Placynthium

garovaglio (Schaer.) Hertel & Rambold, Miriquidica
= Miriquidica garovaglii (Schaer.) Hertel & Rambold

gelasinata (With.) Zahlbr., Sphinctrina = Sphinctrina
turbinata (Pers.:Fr.) De Not.

**gelatinosa (Ach.) M.Brand & Diederich,
Agonimia**

gelatinosa (Zahlbr.) Zschacke, Gloeopyrenia =
Protothelenella sphinctrinoides (Nyl.) H.Mayrhofer
& Poelt

gelatinosa Flörke, Lecidea = Trapeliopsis gelatinosa
(Flörke) Coppins & P.James

gelatinosa (Flörke) Brodo, Micarea = Trapeliopsis
gelatinosa (Flörke) Coppins & P.James

gelatinosa Zahlbr., Microglaena = Protothelenella
sphinctrinoides (Nyl.) H.Mayrhofer & Poelt

gelatinosa f. diffluens (Vain.) Zahlbr., Microglaena =
Protothelenella sphinctrinoides (Nyl.) H.Mayrhofer
& Poelt

gelatinosa (Ach.) Th.Fr., Polyblastia = Agonimia
gelatinosa (Ach.) M.Brand & Diederich

**gelatinosa (Flörke) Coppins & P.James,
Trapeliopsis**

gelatinosa sensu Sommerf., Verrucaria =
Protothelenella sphinctrinoides (Nyl.) H.Mayrhofer
& Poelt

gelatinosum (With.) J.R.Laundon, Leptogium =
Scytinium gelatinosum (With.) Otálora et al.

gelatinosum (With.) Otálora et al., Scytinium

gelida (L.) Ach., Lecanora = Placopsis gelida (L.)
Linds.

gelida f. neglecta Degel., Lecanora = Placopsis

gelida (L.) Linds.

gelida (L.) Linds., Placopsis

gelidae R.Sant., Arthonia

gelidaria (Mudd) Matzer, Roselliniopsis

gelidarium (Mudd) A.L.Sm., Didymosphaeria =
Roselliniopsis gelidaria (Mudd) Matzer

gelidarium (Mudd) D.Hawksw., Polycoccum =
Roselliniopsis gelidaria (Mudd) Matzer

geminatum Körb., Rhizocarpon

geminipara (Th.Fr.) Vain., Ochrolechia = Pertusaria

geminipara (Th.Fr.) C.Knight ex Brodo

**geminipara (Th.Fr.) C.Knight ex Brodo,
Pertusaria**

gemmata (Ach.) A.Massal., Acrocordia

gemmata (Ach.) A.Massal., Arthopyrenia =
Acrocordia gemmata (Ach.) A.Massal.

gemmiferum auct., Discothecium = Endococcus
propinquus (Körb.) D.Hawksw.

gemmiferum (Taylor) Vouaux, Discothecium

gemmiferum var. brachysporum (Zopf) Vouaux,
Discothecium = Endococcus brachysporus (Zopf) M.
Brand & Diederich

gemmiferum var. calcaricolum auct. p.p.,
Discothecium = Endococcus rugulosus Nyl. sensu
lat.

gemmiferum (Taylor) Körb., Tichothecium =
Endococcus propinquus (Körb.) D.Hawksw.

gennarii Bagl., Rinodina

geoctona Hellb., Microglaena = Protothelenella
sphinctrinoidella (Nyl.) H.Mayrhofer & Poelt

geographica f. conglomerata Fr., Lecidea =
Rhizocarpon alpicola (Anzi) Rabenh.

geographici (J.Steiner) Keissl., Phacopsis =
Rhymbocarpus geographici (J.Steiner) Vouaux

geographici (J.Steiner) Vouaux, Rhymbocarpus

geographicum (L.) DC., Rhizocarpon

**geographicum (L.) DC. subsp. arcticum
(Runemark) Hertel, Rhizocarpon**

geographicum (L.) DC. var. *contigua* f. *fraudans*
Räsänen, *Rhizocarpon* = *Rhizocarpon geographicum*
(L.) DC. subsp. *geographicum*

geographicum (L.) DC. subsp. diabolicum
(Räsänen) Poelt & Vězda, *Rhizocarpon*

geographicum subsp. *frigidum* (Räsänen) Hertel.,
Rhizocarpon = *Rhizocarpon frigidum* Räsänen

geographicum (L.) DC. subsp. geographicum,
Rhizocarpon

geographicum (L.) DC. subsp. kittilense
(Räsänen) Ahti, *Rhizocarpon*

geographicum (L.) DC. subsp. lindsayanum
(Räsänen) Ahti, *Rhizocarpon*

geographicum (L.) DC. subsp. prospectans
(Räsänen) D.Hawksw. & Sowter, *Rhizocarpon*

geoica (Wahlenb. ex Ach.) Ach., Gyalecta

geoica f. *trivialis* Willey ex Tuck., *Gyalecta* =
Absconditella trivialis (Willey ex Tuck.) Vězda

geoica Zschacke, Staurothele

geophana (Nyl.) Th.Fr., *Biatora* = *Steinia geophana*
(Nyl.) Stein

geophana (Nyl.) Rehm, *Biatorrella* = *Steinia*
geophana (Nyl.) Stein

geophana Nyl., *Lecidea* = *Steinia geophana* (Nyl.)
Stein

geophana (Nyl.) Clem., *Pleolecis* = *Steinia geophana*
(Nyl.) Stein

geophana (Nyl.) Stein, Steinia

geophila (Flörke ex Sommerf.) Lyngby, *Buellia* =
Tetramelas geophilus (Flörke ex Sommerf.) Norman

geophila Zahlbr., Verrucaria

geophilum (Flörke ex Sommerf.) Szatala ex D.D.
Awasthi & S.R.Singh, *Diplotomma* = *Tetramelas*
geophilus (Flörke ex Sommerf.) Norman

geophilus (Flörke ex Sommerf.) Norman,
Tetramelas

geronticum (Ach.) H.Magn., *Rhizocarpon* =
Rhizocarpon alpicola (Anzi) Rabenh.

gevrensis Th.Fr., *Buellia* = *Buellia leptocline* (Flot.)
Körb.

gibba (Nyl.) Nyl., Sarcopyrenia

gibba (Nyl.) Nyl. var. geisleri Beckh. ex Körb.,
Sarcopyrenia

gibberosa sensu Th.Fr. non Ach., *Lecidea* = *Puttea*
exsequens (Nyl.) Printzen & Davydov

gibbosa (Ach.) Körb., *Aspicilia* = *Circinaria gibbosa*
(Ach.) A.Nordin et al.

gibbosa var. *virescens* Räsänen, *Aspicilia* = *Aspicilia*
cinerea (L.) Körb.

gibbosa (Ach.) A.Nordin et al., Circinaria

gibbosa (Ach.) Nyl., *Lecanora* = *Circinaria gibbosa*
(Ach.) A.Nordin et al.

gibbosa auct., *Lecanora* = *Circinaria caesiocinerea*
(Nyl. ex Malbr.) A.Nordin et al.

gibbosa (Ach.) Fr. ex A.Massal., *Mosigia* =
Rimularia gibbosa (Ach.) Coppins et al.

gibbosa Ach., *Pyrenula* = *Rimularia gibbosa* (Ach.)
Coppins et al.

gibbosa (Ach.) Coppins et al., Rimularia

gibbosa Ach., *Urceolaria* = *Circinaria gibbosa* (Ach.)
A.Nordin et al.

gibbosula H.Magn., *Lecanora* = *Circinaria gibbosa*
(Ach.) A.Nordin et al.

gibbosula (Nyl.) Blomb. & Forssell, *Microglæna* =
Protothelenella corrosa (Körb.) H.Mayrhofer & Poelt

gigantea Egea & Llimona, *Heppia* = *Heppia*
despreauxii (Mont.) Tuck.

gilva (Hoffm.) Zahlbr., *Caloplaca* = *Caloplaca cerina*
(Hedw.) Th.Fr.

gilvum (Hoffm.) Räsänen, *Calloporisma* = *Caloplaca*
cerina (Hedw.) Th.Fr.

gisleri Poelt & Ullrich, *Lecanora* = *Lecanora*
gisleriana Müll.Arg.

gisleriana Müll.Arg., Lecanora

glabra (Motyka) Brodo & D.Hawksw., Bryoria

glabra (Kremp.) Hellb., *Lecidea* = *Lecidella*
stigmætea (Ach.) Hertel & Leuckert

glabra (Schaer.) Essl, *Melanelia* = *Melanelixia glabra*
(Schaer.) O.Blanco et al.

glabra (Schaer.) O.Blanco et al., Melanelixia

glabra (Schaer.) Nyl., Parmelia = Melanelixia glabra (Schaer.) O.Blanco et al.

glabrata (Ach.) Malme, Lecanora

glabrata (Ach.) Vain., Usnea

glabratula (Lamy) Essl., Melanelia = Melanelixia

glabratula (Lamy) Sandler & Arup

glabratula (Lamy) Sandler & Arup, Melanelixia

glabratula Lamy, Parmelia = Melanelixia glabratula (Lamy) Sandler & Arup

glabratulae Kotte, Abrothallus = Abrothallus bertianus De Not.

glabella (Motyka ex Räsänen) Räsänen, Usnea = Usnea glabrescens (Nyl. ex Vain.) Vain. ex Räsänen

glabrescens (Nyl. ex Vain.) Vain. ex Räsänen, Usnea

glabrescens var. fulvovirens Räsänen, Usnea = Usnea glabrescens (Nyl. ex Vain.) Vain. ex Räsänen

glabrum M.S.Christ. et al., Echinothecium = Sphaerellothecium araneosum (Rehm ex Arnold) Zopf

glacialis B.Nilsson, Trimmatothele = Acarospora fuscata (Schrad.) Th.Fr.

glareosa Korb., Gongylia = Baeomyces rufus (Huds.) Rebent.

glareosum (Savicz) H.Magn., Stereocaulon

glauca Korb., Acrocordia = Acrocordia gemmata (Ach.) A.Massal.

glauca (Korb.) Vain., Arthopyrenia = Acrocordia gemmata (Ach.) A.Massal.

glauca (L.) Ach., Cetraria = Platismatia glauca (L.) W.L.Culb. & C.F.Culb.

glauca Flörke, Cladonia

glauca (L.) W.L.Culb. & C.F.Culb., Platismatia

glauca Ropin, Rinodina = Rinodina freyi H.Magn.

glaucella (Flot.) Nyl., Lecanora = Lecanora albellula (Nyl.) Th.Fr.

glaucella (Flörke) Nyl., Lepraria = Lepraria incana (L.) Ach.

glaucellum Ach., Calicium

glaucescens Hoffm., Collema = Enchylium limosum (Ach.) Otálora et al.

glaucescens (Th.Fr.) Zahlbr., Rhizocarpon

glaucescens Vain., Usnea = Usnea hirta (L.) Weber ex F.H.Wigg.

glaucina auct., Verrucaria

glaucina Ach., Verrucaria = Verrucaria caerulea DC.

glaucocharpa (Ach.) Korb., Acarospora

glaucocharpa var. endocarpoides Vain., Lecanora = Acarospora rhizobola (Nyl.) Alstrup

glaucocharpa Ach., Parmelia = Acarospora glaucocharpa (Ach.) Korb.

glaucoconerea (Nyl.) Vain., Porina

glaucolepidea Nyl., Lecidea = Trapeliopsis glaucolepidea (Nyl.) Gotth.Schneid.

glaucolepidea (Nyl.) Gotth.Schneid., Trapeliopsis

glaucoma (Hoffm.) Ach., Lecanora = Lecanora rupicola (L.) Zahlbr.

glaucomaria Nyl., Arthonia = Arthonia varians (Davies) Nyl.

glaucomaria var. pallidae Rehm ex Almq., Arthonia = Arthonia subfuscicola (Linds.) Triebel

glaucomaria Nyl., Lecidea = Phacographa glaucomaria (Nyl.) Hafellner

glaucomaria (Nyl.) Källsten, Opegrapha = Phacographa glaucomaria (Nyl.) Hafellner

glaucomaria (Nyl.) Hafellner, Phacographa

glauconephela Nyl., Verrucaria

glauconigella Nyl., Lecidea = Epilichen

glauconigellus (Nyl.) Hafellner

glauconigellus (Nyl.) Hafellner, Epilichen

glaucophaea (Korb.) Hertel, Huilia = Porpidia rugosa (Korb.) Coppins & Fryday

glaucophaea Korb., Lecidea = Porpidia rugosa (Korb.) Coppins & Fryday

glaucophaea (Korb.) Hertel & Knoph, Porpidia = Porpidia rugosa (Korb.) Coppins & Fryday

glaucophaeum (Körb.) V.Wirth, Haplocarpon =
Porpidia rugosa (Körb.) Coppins & Fryday

glaucovirens Grumann, Verrucaria

glebarum (Arnold) Hafellner, Stigmidium

glebosa Körb., Acarospora = Acarospora oligospora
(Nyl.) Arnold

glebulentum (Nyl. ex Cromb.) Degel., Collema

glebulosa Fr., Biatora = Trapeliopsis wallrothii
(Flörke ex Spreng.) Hertel & Gotth.Schneid.

glebulosa (Sm.) J.R.Laundon, Trapelia

globifera Ach., Lecidea = Psora globifera (Ach.) A.
Massal.

globifera (Ach.) A.Massal., Psora

globosus (Huds.) Vain., Sphaerophorus

globulans Vain., Porina = Pseudosagedia globulans
(Vain.) R.Sant.

globulans (Vain.) R.Sant., Pseudosagedia

globularis Körb., Arthopyrenia = Naetrocymbe
punctiformis (Pers.) R.C.Harris

globularis (Nyl.) Lamy, Lecidea = Micarea misella
(Nyl.) Hedl.

globularis (Ach.) Hedl., Micarea = Micarea misella
(Nyl.) Hedl.

globulatum Nyl., Illosporium = Peltigera didactyla
(With.) J.R.Laundon

globulifera M.Brand & Diederich, Agonimia

globulifera (Turner) A.Massal., Pertusaria = Lepra
albescens (Huds.) Hafellner

globulificans (Nyl.) Zahlbr., Protoblastenia =
Protoblastenia cyclospora (Hepp ex Körb.) Poelt

globulispora Nyl., Lecidea

globulosa (Flörke) Hafellner & V.Wirth, Bacidia =
Biatora globulosa (Flörke) Fr.

globulosa (Flörke) Fr., Biatora

globulosa (Flörke) Th.Fr., Catillaria = Biatora
globulosa (Flörke) Fr.

globulosa var. subglobulosa (Nyl.) Blomb. &
Forssell, Catillaria = Biatora ocelliformis (Nyl.)
Arnold

globulosa (Coppins) M.Westb. & Resl, Lambiella

globulosa (Flörke) van den Boom & Sérus., Lecania
= Biatora globulosa (Flörke) Fr.

globulosa Flörke, Lecidea = Biatora globulosa
(Flörke) Fr.

globulosa Coppins, Rimularia = Lambiella globulosa
(Coppins) M.Westb. & Resl

globulosella (Nyl.) Zahlbr., Bacidia = Micarea
globulosella (Nyl.) Coppins

globulosella Nyl., Lecidea = Micarea globulosella
(Nyl.) Coppins

globulosella (Nyl.) Coppins, Micarea

gloeocapsa Nitschke ex Arnold, Bryophagus =
Cryptodiscus gloeocapsa (Arnold) Baloch et al.

gloeocapsa (Arnold) Baloch et al., Cryptodiscus

gloeocapsa (Arnold) Lettau, Gloeolecta =
Cryptodiscus gloeocapsa (Arnold) Baloch et al.

gloeocapsa (Arnold) Zahlbr., Gyalecta =
Cryptodiscus gloeocapsa (Arnold) Baloch et al.

glomellifera (Nyl.) Nyl., Parmelia = Xanthoparmelia
verruculifera (Nyl.) O.Blanco et al.

glomerata Arup, Caloplaca = Variospora glomerata
(Arup) Arup et al.

glomerata (Ach.) Schaer., Pertusaria

glomerata var. octomela Norman, Pertusaria =
Pertusaria octomela (Norman) Erichsen

glomerata (Arup) Arup et al., Variospora

glomerella (Nyl.) Th.Fr., Catillaria = Micarea
elachista (Körb.) Coppins & R.Sant.

glomerella f. simplicata Nyl., Lecidea = Micarea
elachista (Körb.) Coppins & R.Sant.

glomerella (Nyl.) Hedl., Micarea = Micarea elachista
(Körb.) Coppins & R.Sant.

glomerulata Nyl., Pertusaria = Pertusaria coccodes
(Ach.) Nyl.

glomerulosa (DC.) Steud., Lecidea = Lecidella
euphorea (Flörke) Hertel

glomerulosa Th.Fr., Lecidea = Hertelidea botryosa
(Fr.) Printzen & Kantvilas

glomerulosa (DC.) M.Choisy, Lecidella = Lecidella euphorea (Flörke) Hertel

gomphillacea (Nyl.) Zahlbr., Bacidia = Micarea lignaria (Ach.) Hedl. var. lignaria

gomphillacea (Nyl.) Vain., Bilimbia = Micarea lignaria (Ach.) Hedl. var. lignaria

gomphillacea (Nyl.) Vězda, Micarea = Micarea lignaria (Ach.) Hedl. var. lignaria

gomphillaceum Nyl., Stereocauliscum = Micarea lignaria (Ach.) Hedl. var. lignaria

gonatodes (Ach.) Räsänen, Ochrolechia = Ochrolechia frigida (Sw.) Lyngé

gonecha (Ach.) Asahina, Cladonia = Cladonia sulphurina (Michx.) Fr.

goniophila sensu H.Magn., Poelt etc., Lecidea = Lecidella anomaloides (A.Massal.) Hertel & H.Kilius

gothica (Th.Fr.) Servít, Amphoroblastia = Polyblastia gothica Th.Fr.

gothica Th.Fr., Polyblastia

gothoburgensis (H.Magn.) V.Wirth & Vězda, Fuscidea

gothoburgensis H.Magn., Lecidea = Fuscidea

gothoburgensis (H.Magn.) V.Wirth & Vězda

gothoburgensis f. maculosa H.Magn., Lecidea = Fuscidea gothoburgensis (H.Magn.) V.Wirth & Vězda

gotlandica Servít, Amphoroblastia = Polyblastia albida Arnold

gotlandica J.Steiner, Buellia = Buellia disciformis (Fr.) Mudd

gotlandica (Du Rietz) Gyeln., Durietzia = Hymenelia rhodopis (Sommerf.) Lutzoni

gotlandica Du Rietz, Heppia = Hymenelia rhodopis (Sommerf.) Lutzoni

gotlandica Servít, Verrucaria

gowardii Brodo, Ochrolechia

gracilentata (Ach.) J.Mattsson & Middelb., Chaenotheca

gracilentata Ach., Coniocybe = Chaenotheca gracilentata (Ach.) J.Mattsson & Middelb.

gracilentata (Ach.) Tibell, Cybebe = Chaenotheca

gracilentata (Ach.) J.Mattsson & Middelb.

gracilescens auct., Cladonia = Cladonia uliginosa (Ahti) Ahti

gracilis (L.) Willd., Cladonia

gracilis var. chordalis (Flörke) Schaer., Cladonia = Cladonia gracilis (L.) Willd. subsp. gracilis

gracilis var. dilatata auct., Cladonia = Cladonia gracilis (L.) Willd. subsp. turbinata (Ach.) Ahti

gracilis (L.) Willd. subsp. elongata (Wulfen) Vain., Cladonia

gracilis var. elongata f. maxima Asahina, Cladonia = Cladonia maxima (Asahina) Ahti

gracilis (L.) Willd. subsp. gracilis, Cladonia

gracilis var. nigripes (Nyl.) Ahti, Cladonia = Cladonia gracilis (L.) Willd. subsp. elongata (Wulfen) Vain.

gracilis (L.) Willd. subsp. turbinata (Ach.) Ahti, Cladonia

gracillima (Vain.) Tibell, Chaenotheca

gracillima Vain., Coniocybe = Chaenotheca

gracillima (Vain.) Tibell

graciosa Motyka, Usnea = Usnea barbata (L.) Weber ex F.H.Wigg.

graminicola Galløe, Catillaria = Lecania cyrtella (Ach.) Th.Fr.

granatina (Sommerf.) Nyl., Euopsis

granatina Sommerf., Lecanora = Euopsis granatina (Sommerf.) Nyl.

granatina (Sommerf.) Nyl., Pyrenopsis = Euopsis granatina (Sommerf.) Nyl.

grande (Flörke) Arnold, Rhizocarpon

grande f. eupetraeum (Nyl.) Th.Fr., Rhizocarpon = Rhizocarpon eupetraeum (Nyl.) Arnold

grande (H.Magn.) H.Magn., Stereocaulon

grandicula Coppins, Eopyrenula

grandis H.Magn., Lecanora = Protoparmelia badia (Hoffm.) Hafellner

grandis (Körb.) Zahlbr., Porina = Pseudosagedia
grandis (Körb.) Hafellner & Kalb

grandis (Körb.) Hafellner & Kalb, Pseudosagedia

graniforme (K.G.Hagen) Coppins, Cliostomum =
Cliostomum corrugatum (Ach.:Fr.) Fr.

graniformis (K.G.Hagen) Vain., Catillaria =
Cliostomum corrugatum (Ach.:Fr.) Fr.

granitophila Th.Fr., Arthonia

granitophila (Th.Fr.) Coppins, Melaspilea = Arthonia
granitophila Th.Fr.

granosum auct., Collema = Lathagrium auriforme
(With.) Otálora et al.

granulans sensu H.Magn., Bacidia = Micarea lignaria
(Ach.) Hedl. var. lignaria

granulans Vain., Lecidea = Micarea submilliaria
(Nyl.) Coppins

granulans (Vain.) Timdal, Micarea = Micarea
submilliaria (Nyl.) Coppins

granulans Vain., Rinodina

granuliforme (Nyl.) Forssell, Pyrenopsidium =
Cryptothele granuliformis (Nyl.) Henssen

granuliformis M.Westb., Candelariella

granuliformis (Nyl.) Henssen, Cryptothele

granulosa Graewe ex Th.Fr., Arthonia =
Phacographa zwackhii (A.Massal ex Zwackh)
Hafellner

granulosa A.Nordin, Aspicilia

granulosa (Hoffm.) Flot., Biatora = Trapeliopsis
granulosa (Hoffm.) Lumbsch

granulosa auct., Caloplaca = Polycauliona
verruculifera (Vain.) Arup et al.

granulosa (Müll.Arg.) Jatta, Caloplaca = Flavoplaca
granulosa (Müll.Arg.) Arup et al.

granulosa (Müll.Arg.) Arup et al., Flavoplaca

granulosa (Hoffm.) Ach., Lecidea = Trapeliopsis
granulosa (Hoffm.) Lumbsch

granulosa subsp. flexuosa (Fr.) Th.Fr., Lecidea =
Trapeliopsis flexuosa (Fr.) Coppins & P.James

granulosa (Lyngé) Essl., Melanelia = Montanelia
disjuncta (Erichsen) Divakar et al.

granulosa Lyngé, Parmelia = Montanelia disjuncta
(Erichsen) Divakar et al.

granulosa (Hoffm.) V.Wirth, Trapelia = Trapeliopsis
granulosa (Hoffm.) Lumbsch

granulosa (Hoffm.) Lumbsch, Trapeliopsis

granulosae Arnold, Phaeospora = Pyrenidium
actinellum Nyl.

granulosum (Schaer.) Vain., Placodium = Rusavskia
sorediata (Vain.) S.Y.Kondr. & Kärnefelt

granvina Hav. ex P.M.Jørg., Ionaspis

granvina Vain., Lecidea = Brianaria lutulata (Nyl.) S.
Ekman & M.Svensson

granvinensis Vain., Lecanora = Protoparmelia
ochrococca (Nyl.) P.M.Jørg. et al.

graphideorum (Nyl.) D.Hawksw., Milospium

graphideorum Nyl., Spilomium = Milospium
graphideorum (Nyl.) D.Hawksw.

graphidicola Coppins, Arthonia

graphidioides (Leight.) Almb., Enterographa =
Schismatomma graphidioides (Leight.) Zahlbr.

graphidioides (Leight.) Zahlbr., Schismatomma

grayi G.Merr. ex Sandst., Cladonia

gregaria (Weigel) Körb., Arthonia = Coniocarpon
cinnabarinum DC.

gregaria Sherwood et al., Skyttea

gregarius (Sherwood et al.) Triebel, Rhymbocarpus =
Skyttea gregaria Sherwood et al.

griffithii (Sm.) Malme, Catillaria = Cliostomum
griffithii (Sm.) Coppins

griffithii (Sm.) Coppins, Cliostomum

grimmiae (Nyl.) H.Olivier, Caloplaca

grimmiae Lyngé, Ochrolechia

grisea Fryday & Coppins, Ameliella

grisea (Schleich. ex Schaer.) Körb., Arthopyrenia

grisea sensu Vain., Arthopyrenia = Naetrocymbe
rhypona (Ach.) R.C.Harris

grisea Th.Fr., Arthrorhaphis

grisea Arnold, Aspicilia

grisea (Arnold) Lettau, Lecanora = Aspicilia grisea Arnold

grisea (Lam.) Zahlbr., Physcia = Physconia grisea (Lam.) Poelt

grisea (Lam.) Poelt, Physconia

grisea Gowan, Porpidia

grisea Hoffm., Umbilicaria

grisella Flörke ex Schaer., Lecidea

grisella (P.Karst.) Redhead et al., Lichenomphalia

grisella (P.Karst.) M.M.Moser, Omphalina = Lichenomphalia grisella (P.Karst.) Redhead et al.

griseoatra (Flot.) Schaer., Lecidea = Miriquidica griseoatra (Flot.) Hertel & Rambold

griseoatra auct., Lecidea = Schaereria fuscocinerea (Nyl.) Clauzade & Cl.Roux

griseoatra (Flot.) Hertel & Rambold, Miriquidica

griseoatra auct. non (Flot.) Hertel & Rambold, Miriquidica = Miriquidica subplumbea (Anzi) Cl. Roux

griseoatra (Kremp.) Servít, Verrucaria = Placopyrenium fuscillum (Turner) Gueidan & Cl. Roux

griseocinercens (Vain.) Zschacke, Verrucaria

griseofusca Nyl., Lecanora = Rinodina deflectens (Nyl.) Blomb. & Forssell

griseofusca (Nyl.) H.Olivier, Rinodina = Rinodina deflectens (Nyl.) Blomb. & Forssell

griseola Th.Fr., Lecanora = Lobothallia recedens (Taylor) A.Nordin et al.

griseolans Zahlbr., Lecanora = Aspicilia grisea Arnold

griseonigricans Vain., Lecidea = Miriquidica plumbeoatra (Vain.) A.J.Schwab & Rambold

griseopallida (Vain.) Hue, Aspicilia = Aspicilia aquatica (Fr.) Körb.

griseopallida Vain., Lecanora = Aspicilia aquatica (Fr.) Körb.

griseorubens Mig., Verrucaria = Verrucaria viridula (Schrad.) Ach.

griseosoralifera Coppins, Rinodina

griseovirens (Turner & Borrer ex Sm.) Almb., Buellia

groedensis (Zopf) Keissl., Adelococcus = Roselliniopsis groedensis (Zopf) Matzer & Hafellner

groedensis (Zopf) Matzer & Hafellner, Roselliniopsis

groenlandiae Alstrup & D.Hawksw., Geltingia = Unguiculariopsis groenlandiae (Alstrup & D. Hawksw.) Etayo & Diederich

groenlandiae (Alstrup & D.Hawksw.) Triebel & Hafellner, Llimoniella = Unguiculariopsis groenlandiae (Alstrup & D.Hawksw.) Etayo & Diederich

groenlandiae (Alstrup & D.Hawksw.) Etayo & Diederich, Unguiculariopsis

groenlandica Lyngé, Catillaria

groenlandica (E.Dahl) Trass, Cladonia = Cladonia cornuta (L.) Hoffm. subsp. groenlandica (E.Dahl) Ahti

groenlandicum (E.Dahl) I.M.Lamb, Stereocaulon

grossa (Nyl.) Körb., Catillaria = Megalaria grossa (Pers. ex Nyl.) Hafellner

grossa (Pers. ex Nyl.) Vain., Catinaria = Megalaria grossa (Pers. ex Nyl.) Hafellner

grossa (Pers. ex Nyl.) Hafellner, Megalaria

grossa Nyl., Verrucaria

grossum (Körb.) D.Hawksw., Clypeococcum

grossum (Körb.) Vouaux, Discothecium = Clypeococcum grossum (Körb.) D.Hawksw.

grumosa (Pers.) Du Rietz, Lecanora = Tephromela grumosa (Pers.) Hafellner & Cl.Roux

grumosa (Pers.) Hafellner & Cl.Roux, Tephromela

grumulifera Nyl., Pyrenopsis

gudbrandsdalensis Zschacke ex H.Magn., Verrucaria

guentheri (Flot.) Zahlbr., Porina = Pseudosagedia guentheri (Flot.) Hafellner & Kalb

guentheri var. grandis (Körb.) Swinscow, Porina = Pseudosagedia grandis (Körb.) Hafellner & Kalb

guentheri (Flot.) Hafellner & Kalb, Pseudosagedia

guentheri (Flot.) R.C.Harris, Trichothelium = Pseudosagedia guentheri (Flot.) Hafellner & Kalb

guelpinii (Delise) Nyl., Heppia = Peltula euploca (Ach.) Poelt

guestphalica (J.Lahm ex Körb.) Arnold, Staurothele

gyalectiformis D.Hawksw. & Poelt, Lichingoldia = Bacidina inundata (Fr.) Vězda

gyalectoides (A.Massal.) Lindau, Gyalecta = Gyalecta hypoleuca (Ach.) Zahlbr.

gyalectoides Almq., Microglaena = Gyalidea fritzei (Stein) Vězda

gypsacea (Sm.) Th.Fr., Lecanora = Squamarina gypsacea (Sm.) Poelt

gypsacea (Sm.) Poelt, Squamarina

gypsaceus (Ach.) Zahlbr., Diploschistes

gyrizans (Nyl.) M.Westb. & Resl, Lambiella

gyrizans (Nyl.) Hertel & Rambold, Rimularia = Lambiella gyrizans (Nyl.) M.Westb. & Resl

gyrocarpa (Flot.) Ertz & Tehler, Gyrographa

gyrocarpa Flot., Opegrapha = Gyrographa gyrocarpa (Flot.) Ertz & Tehler

gyrodes (Nyl.) Hue, Aspicilia = Aspicilia aquatica (Fr.) Körb.

gyrodes Nyl., Lecanora = Aspicilia aquatica (Fr.) Körb.

gyrophorarum (Arnold) J.C.David & D.Hawksw., Endococcus = Stigmatidium gyrophorarum (Arnold) D.Hawksw.

gyrophorarum (Arnold) Zopf, Pharcidia = Stigmatidium gyrophorarum (Arnold) D.Hawksw.

gyrophorarum (Arnold) D.Hawksw., Stigmatidium

gyrophorica (Tønsberg) Coppins in Purvis et al., Biatora = Biatora chrysantha (Zahlbr.) Printzen

gyrophorica Tønsberg, Lecidea = Biatora chrysantha (Zahlbr.) Printzen

haemalea (Sommerf.) Norrl., Pyrenopsis = Euopsis pulvinata (Schaer.) Vain.

haemalella (Nyl.) Blomb. & Forssell, Pyrenopsis haematina P.M.Jørg. & Henssen, Pyrenopsis

haematophaea (Anzi) Zahlbr., Catillaria

haematopis (Sommerf.) Th.Fr., Pyrenopsis = Pyrenopsis haematina P.M.Jørg. & Henssen

haematopis var. terrigena Th.Fr., Pyrenopsis = Pyrenopsis furfurea (Nyl.) Leight.

haematopus Tibell, Chaenothecopsis

haemensis Vain., Lecidea = Bryobilimbia ahlesii (Körb.) Fryday et al.

haerjedalica (H.Magn.) Creveld, Aspicilia = Sagedia zonata Ach.

haerjedalica H.Magn., Lecanora = Sagedia zonata Ach.

haerjedalica H.Magn., Lecidea

haesitans (Nyl.) Vouaux, Pharcidia = Stigmatidium haesitans (Nyl.) Diederich

haesitans (Nyl.) Hafellner ined., Stigmatidium = Stigmatidium haesitans (Nyl.) Diederich

haesitans (Nyl.) Diederich, Stigmatidium

haesitans Nyl., Verrucaria = Stigmatidium haesitans (Nyl.) Diederich

haeyrenii (H.Magn.) Creveld, Aspicilia

haeyrenii Räsänen, Ionaspis = Myriolecis crenulata (Hook.) Śliwa et al.

haeyrenii H.Magn., Lecanora = Aspicilia haeyrenii (H.Magn.) Creveld

haeyrenii Räsänen, Rhizocarpon = Rhizocarpon geographicum (L.) DC. subsp. geographicum

haeyrenii Erichsen, Verrucaria = Hydropunctaria maura (Wahlenb.) C.Keller et al.

hafellneri Millanes et al., Biatoropsis

hagenii (Ach.) Ach., Lecanora = Myriolecis hagenii (Ach.) Śliwa et al.

hagenii var. fallax Hepp, Lecanora = Myriolecis zosteræ (Ach.) Šliwa et al. var. palanderi (Vain.) Šliwa

hagenii subsp. persimilis Th.Fr., Lecanora = Myriolecis persimilis (Th.Fr.) Šliwa et al.

hagenii f. saxifragæ Anzi, Lecanora = Myriolecis zosteræ (Ach.) Šliwa et al. var. palanderi (Vain.) Šliwa

hagenii (Ach.) Šliwa et al., Myriolecis

hagenii Ach., Parmelia = Myriolecis hagenii (Ach.) Šliwa et al.

halacsyi sensu Hafellner & Sancho, Carbonea = Carbonea intrudens (H.Magn.) Hafellner

halei Pérez-Ortega et al., Abrothallus

halei W.L.Culb. & C.F.Culb., Cetraria = Tuckermannopsis ciliaris (Ach.) Gyeln.

halei (W.L.Culb. & C.F.Culb.) M.J.Lai, Tuckermannopsis = Tuckermannopsis ciliaris (Ach.) Gyeln.

halizoa Leight., Verrucaria = Verrucaria halophila Branth & Rostr.

hallii (Tuck.) Zahlbr., Lobaria

halodytes (Nyl.) Arnold, Arthopyrenia = Collemopsidium halodytes (Nyl.) Grube & B.D.Ryan

halodytes (Nyl.) Grube & B.D.Ryan, Collemopsidium

halodytes (Nyl.) R.C.Harris, Pyrenocollema = Collemopsidium halodytes (Nyl.) Grube & B.D.Ryan

halogenia (Th.Fr.) Nyl., Lecanora = Lecanora actophila Wedd.

halophila Branth & Rostr., Verrucaria

halophiloides Vain., Verrucaria

handelii J.Steiner, Lecanora

hapaleoides Nyl., Opegrapha = Opegrapha vermicellifera (Kunze) J.R.Laundon

haplospora Th.Fr., Muellerella = Rosellinula haplospora (Th.Fr. & Almq. ex Th.Fr.) R.Sant.

haplospora (Th.Fr.) Hafellner, Rosellinella = Rosellinula haplospora (Th.Fr. & Almq. ex Th.Fr.) R.Sant.

haplospora (Th.Fr. & Almq. ex Th.Fr.) R.Sant., Rosellinula

haplotella (Nyl.) Arnold, Muellerella = Muellerella polyspora Hepp ex Müll.Arg.

hardangeriana H.Magn., Lecidea = Miriquidica leucophaea (Flörke ex Rabenh.) Hertel & Rambold

harmandiana Grummann, Verrucaria = Wahlenbergiella striatula (Wahlenb.) Gueidan & Thüs

harrisii Hafellner & Kalb, Pyrenula = Pyrenula occidentalis (R.C.Harris) R.C.Harris

havaasii H.Magn., Caloplaca = Flavoplaca havaasii (H.Magn.) Arup et al.

havaasii (H.Magn.) Arup et al., Flavoplaca

havaasii Vain., Lecanora = Protoparmelia nephaea (Sommerf.) R.Sant.

havaasii Räsänen, Rhizocarpon = Rhizocarpon geographicum (L.) DC. subsp. diabolicum (Räsänen) Poelt & Vězda

havaasii H.Magn., Toninia = Toninia squalida (Ach.) A.Massal.

havaasii Llano, Umbilicaria

haynaldii Gyeln., Alectoria = Bryoria fuscescens (Gyeln.) Brodo & D.Hawksw.

hazslinszkyi Gyeln., Peltigera = Peltigera didactyla (With.) J.R.Laundon

hazslinszkyi (Körb.) Blomb. & Forssell, Staurothele = Staurothele fissa (Taylor) Zwackh

hedinii (H.Magn.) P.Clerc & Cl.Roux, Diplotomma = Diplotomma venustum Körb.

hedlundii Coppins, Micarea

heeri (Hepp) H.Olivier, Catillaria = Scutula heeri (Hepp) Trevis.

heeri auct., Catillaria = Scutula dedicata Triebel et al.

heeri (Hepp) Trevis., Scutula

hegetschweileri (Hepp) Vain., Bacidia = Toniniopsis separabilis (Nyl.) Gerasimova & A.Beck

hegetschweileri auct., Bacidia = Bibbya vermifera (Nyl.) Kistenich et al.

hegetschweileri Körb., Verrucaria

heidelbergensis (Nyl.) Poelt, Candelariella =
Candelariella aurella (Hoffm.) Zahlbr.

helicopis (Wahlenb.) Ach., Lecanora

heliophila Räsänen, Lecidea

hellbomiana Servít, Amphoroblastia = Polyblastia
hellbomiana (Servít)

hellbomiana (Servít), Polyblastia

hellbomii H.Magn., Acarospora = Acarospora
rugulosa Körb.

hellbomii J.Lahm, Lecidea = Brianaria sylvicola
(Flot. ex Körb.) S.Ekman & M.Svensson

hellbomii Arnold, Polyblastia = Polyblastia
singularis (Kremp.) Arnold

helsingforsensis Nyl., Lecidea = Lecidea praenubila
Nyl.

helsingiensis Vain., Verrucaria

helsinkiensis Vain., Lecidea

helvetica van den Boom & Vězda, Gyalideopsis

helvetica Th.Fr., Polyblastia

helveticum Ach., Nephroma

helveticum (Ach.) Nyl., Nephromium = Nephroma
helveticum Ach.

helvola (Nyl.) Nyl., Arthonia

helvola Körb. ex Hellb., Biatora

helvola (Körb. ex Hellb.) H.Olivier, Lecidea =
Biatora helvola Körb. ex Hellb.

helvola f. efflorescens Hedl., Lecidea = Biatora
efflorescens (Hedl.) Räsänen

helygeoides (Vain.) Dalla Torre & Sarnth., Caloplaca
= Caloplaca diphyodes (Nyl.) Jatta

hemipolia (Nyl.) Malme, Bacidia = Biatora
hemipolia (Nyl.) S.Ekman & Printzen

hemipolia (Nyl.) S.Ekman & Printzen, Biatora

hemipoliella (Nyl.) Blomb. & Forssell, Catillaria =
Micarea denigrata (Fr.) Hedl.

hemipoliella Nyl., Lecidea = Micarea denigrata (Fr.)
Hedl.

hemipoliella (Nyl.) Vězda, Micarea = Micarea
denigrata (Fr.) Hedl.

hemipolioides (Nyl.) Zahlbr., Bacidia = Micarea
peliocarpa (Anzi) Coppins & R.Sant.

hemisphaerica Anzi, Biatorella

hemisphaerica (Flörke) Erichsen, Pertusaria =
Varicellaria hemisphaerica (Flörke) I.Schmitt &
Lumbsch

**hemisphaerica (Flörke) I.Schmitt & Lumbsch,
Varicellaria**

henrici Harm., Pertusaria = Ochrolechia turneri (Sm.)
Hasselrot

henrici sensu Erichsen, Pertusaria = Lepra albescens
(Huds.) Hafellner

henscheliana (Körb.) Lönnr., Polyblastia =
Sporodictyon cruentum (Körb.) Körb.

hepaticum auct., Dermatocarpon = Placidium
squamulosum (Ach.) Breuss

hepaticum (Ach.) Th.Fr., Dermatocarpon =
Catapyrenium cinereum (Pers.) Körb.

hepatizon (Ach.) Vain., Cetraria = Melanelia
hepatizon (Ach.) A.Thell

hepatizon (Ach.) A.Thell, Melanelia

hepatizon (Ach.) Kurok., Tuckermannopsis =
Melanelia hepatizon (Ach.) A.Thell

heppiana (Müll.Arg.) Zahlbr., Caloplaca =
Variospora flavescens (Huds.) Arup et al.

heppii Nägeli ex Körb., Acarospora = Caeruleum
heppii (Nägeli ex Körb.) K.Knudsen & L.Arcadia

**heppii (Nägeli ex Körb.) K.Knudsen & L.Arcadia,
Caeruleum**

heppii R.A. Anderson & W.A.Weber, Lecidea =
Lecidella wulfenii (Hepp) Körb.

heppii (Nägeli ex Körb.) Hue, Myriospora =
Caeruleum heppii (Nägeli ex Körb.) K.Knudsen & L.
Arcadia

heppii Nägeli ex Hepp., Myriospora = Caeruleum
heppii (Nägeli ex Körb.) K.Knudsen & L.Arcadia

herbacea (Huds.) DC., Lobarina = Lobarina virens
(With.) J.R.Laundon

herbarum (Stizenb.) Arnold, Bacidia

herbarum Mont., Opegrapha = Alyxoria culmigena (Libert) Ertz

herbidella (Hue) Servít, Blastenia

herbidella (Hue) H.Magn., Caloplaca = Blastenia
herbidella (Hue) Servít

herbidula (Nyl.) Hulting sensu Hulting, Catillaria = Lecania cuprea (A.Massal.) van den Boom & Coppins

hercynica Poelt & Ullrich, Lecanora = Lecanora subaurea Zahlbr.

herpetica (Ach.) Ach., Opegrapha = Pseudoschismatomma rufescens (Pers.) Ertz & Tehler

herrei auct., Gyrophora = Umbilicaria hyperborea (Ach.) Hoffm. var. radiculica (J.E.Zetterst.) Hasselrot

herrei auct., Umbilicaria = Umbilicaria hyperborea (Ach.) Hoffm. var. radiculica (J.E.Zetterst.) Hasselrot

heterobaphia (Anzi) Lettau, Catillaria = Lecania cyrtella (Ach.) Th.Fr.

heteromorpha (Kremp.) Lutzoni, Hymenelia

heteromorpha (Kremp.) Arnold, Ionaspis = Hymenelia heteromorpha (Kremp.) Lutzoni

heteromorpha H.Magn., Lecidea = Lecidea lithophila (Ach.) Ach.

heterophractum (Nyl.) Vouaux, Merismatium

heterophractus Nyl., Endococcus = Merismatium heterophractum (Nyl.) Vouaux

heterosporus Norman, Endococcus = Muellerella polyspora Hepp ex Müll.Arg.

heterothallina Vain., Psorotichia = Porocyphus kenmorensis (H.B.Holl ex Nyl.) Henssen

hiascens (Fr.) Th.Fr., Cetraria = Cetrariella delisei (Bory ex Schaer.) Kärnefelt & A.Thell

hiascens (Ach.) Hepp, Verrucaria = Bagliettoa calciseda (DC.) Gueidan & Cl.Roux

hiascens auct., Verrucaria = Verrucaria hochstetteri Fr.

hibernica P.James & Poelt, Fuscidea = Ropalospora hibernica (P.James & Poelt) Tønsberg

hibernica (P.James & Poelt) Tønsberg, Ropalospora

hibernicum M.E.Mitch. ex P.M.Jørg, Leptogium

hillmannii Erichsen, Buellia = Buellia aethalea (Ach.) Th.Fr.

hippocastani (DC.) R.C.Harris, Cyrtidula

hippocastani (DC.) Coppins, Mycoporum = Cyrtidula hippocastani (DC.) R.C.Harris

hirsuta (Sw. ex Westr.) Ach., Gyrophora = Umbilicaria hirsuta (Sw. ex Westr.) Hoffm.

hirsuta (Sw. ex Westr.) Hoffm., Umbilicaria

hirsutululum Nyl. ex. Crombie, Psoroma = Psoroma paleaceum (Fr.) Timdal & Tønsberg

hirta (L.) Weber ex F.H.Wigg., Usnea

hirta var. comiformis Motyka ex Räsänen, Usnea = Usnea hirta (L.) Weber ex F.H.Wigg.

hirta var. dentata Räsänen, Usnea = Usnea lapponica Vain.

hirta var. pallescens Motyka, Usnea = Usnea hirta (L.) Weber ex F.H.Wigg.

hispida auct., Physcia = Physcia tenella (Scop.) DC.

hispidula (Ach.) Zahlbr., Chaenotheca

hispidula (Ach.) Horw., Ephebe

hispidula (Ach.) Nyl., Ephebeia = Ephebe hispidula (Ach.) Horw.

hochstetteri (Körb.) Vain., Rhizocarpon

hochstetteri var. infernum (Nyl.) H.Magn., Rhizocarpon = Rhizocarpon infernum (Nyl.) Lyngé

hochstetteri Fr., Verrucaria

hoffmanniana S.Ekman & Fröberg) Cl.Roux & M. Bertrand, Aspicilia = Circinaria hoffmanniana (S. Ekman & Fröberg ex R.Sant) A.Nordin

hoffmanniana (S.Ekman & Fröberg ex R.Sant) A. Nordin, Circinaria

hoffmannii (Ach.) Flagey, Aspicilia = Circinaria contorta (Hoffm.) A.Nordin et al.

hoffmannii auct., *Aspicilia* = *Circinaria*
hoffmanniana (S.Ekman & Fröberg ex R.Sant) A.
Nordin

hoffmannii (Ach.) Müll.Arg., *Lecanora* = *Circinaria*
contorta (Hoffm.) A.Nordin et al.

holmiensis (H.Magn.), *Aspicilia* = *Aspicilia laevata*
(Ach.) Arnold

holmiensis H.Magn., *Lecanora* = *Aspicilia laevata*
(Ach.) Arnold

holocarpa (Hoffm.) Arup et al., *Athallia*

holocarpa (Hoffm. ex Ach.) A.E.Wade, *Caloplaca* =
Athallia holocarpa (Hoffm.) Arup et al.

**homalotropa (Nyl.) Egea & Torrente,
*Bactrospora***

homalotropa (Nyl.) A.L.Sm., *Conotrema* =
Bactrospora homalotropa (Nyl.) Egea & Torrente

homalotropa (Nyl.) Gilenstam, *Lecanactis* =
Bactrospora homalotropa (Nyl.) Egea & Torrente

homalotropa Nyl., *Lecidea* = *Bactrospora*
homalotropa (Nyl.) Egea & Torrente

homoclinella (Nyl.) Hafellner, *Dactylospora* =
Sclerococcum homoclinellum (Nyl.) Ertz &
Diederich

homoclinella (Nyl.) Arnold, *Karschia* =
Sclerococcum homoclinellum (Nyl.) Ertz &
Diederich

**homoclinellum (Nyl.) Ertz & Diederich,
*Sclerococcum***

homoeopsis Nyl., *Pyrenopsis* = *Pyrenopsis furfurea*
(Nyl.) Leight.

homosema Nyl., *Lecidea*

homostegia Nyl., *Sphaeria* = *Homostegia piggotii*
(Berk. & Broome) P.Karst.

hookeri (Borrer) A.Massal., *Dacampia*

hookeri (Borrer ex Sm.) Nyl., *Pannaria*

hookeri (Borrer) Keissl., *Pleospora* = *Dacampia*
hookeri (Borrer) A.Massal.

hookeri Borrer, *Verrucaria* = *Dacampia hookeri*
(Borrer) A.Massal.

hookeri (Borrer) Vain., *Xenosphaeria* = *Dacampia*
hookeri (Borrer) A.Massal.

hookerioides P.M.Jørg., *Fuscopannaria* = *Vahliella*
hookerioides (P.M.Jørg.) P.M.Jørg.

hookerioides (P.M.Jørg.) P.M.Jørg., *Vahliella*

horaria Norman, *Arthonia* = *Arthonia tenellula* Nyl.

horistica (Leight.) Stein, *Opegrapha* = *Enterographa*
zonata (Körb.) Källsten ex Torrente & Egea

horizontalis (Huds.) Baumg., *Peltigera*

hospitans H.Magn., *Acarospora*

hospitans Th.Fr., *Calicium* = *Chaenothecopsis*
hospitans (Th.Fr.) Tibell

hospitans (Th.Fr.) Tibell, *Chaenothecopsis*

hospitans Stizenb., *Muellerella*

hostella Ach., *Lecidea*

**hudsoniana (H.S.Jenn.) Redhead et al.,
*Lichenomphalia***

hudsoniana (H.S.Jenn.) H.E. Bigelow, *Omphalina* =
Lichenomphalia hudsoniana (H.S.Jenn.) Redhead et
al.

hueana B.de Lesd., *Crocynia* = *Dendrographa*
latebrarum (Ach.) Ertz & Tehler

hueana (B.de Lesd.), *Lepraria* = *Dendrographa*
latebrarum (Ach.) Ertz & Tehler

hueana (Harm.) Räsänen, *Physcia* = *Phaeophyscia*
orbicularis (Neck.) Moberg

hueana Vain., *Rinodina* = *Dimelaena oreina* (Ach.)
Norman

hueiana (Harm.) Mig., *Rinodina* = *Rinodina*
efflorescens Malme

hultenii Degel., *Cavernularia* = *Hypogymnia hultenii*
(Degel.) Krog

hultenii (Degel.) Krog, *Hypogymnia*

hultingii H.Magn., *Acarospora*

hultingii (H.Magn.), *Aspicilia* = *Aspicilia*
indissimilis (H.Magn.) Räsänen

hultingii H.Magn., *Lecanora* = *Aspicilia indissimilis*
(H.Magn.) Räsänen

humida (Kullh.) Lumbsch, *Gregorella*

- humida (Kullh.) Th.Fr., Lecidea = Gregorella humida (Kullh.) Lumbsch
- humida Slav.-Bay. & Orange, Lepraria**
- humida (Kullh.) Coppins & P.M.Jørg, Moelleropsis = Gregorella humida (Kullh.) Lumbsch
- humida Orange, Verrucaria**
- humilis (With.) J.R.Laundon, Cladonia**
- humilis var. bourgeanica A.W. Archer, Cladonia = Cladonia conista (Nyl.) Robbins
- humosa (Hoffm.) Leight., Lecidea = Placynthiella uliginosa (Schrad.) Coppins & P.James
- humosum Nyl., Leptogium = Scytinium tenuissimum (Dicks.) Otálora et al.
- hungarica (H.Magn.) Arup et al., Blastenia**
- hungarica H.Magn., Caloplaca = Blastenia hungarica (H.Magn.) Arup et al.
- hungarica (Vain.) Szatala, Cladonia = Cladonia symphyocarpa (Flörke) Fr.
- hutchinsiae (Leight.) Zahlbr., Chiodecton = Enterographa hutchinsiae (Leight.) A.Massal.
- hutchinsiae (Leight.) A.Massal., Enterographa**
- hutchinsiae (Nyl.) A.L.Sm., Lecania**
- huuskonenii Räsänen, Phacopsis**
- huuskonenii (Räsänen) Divakar et al., Protousnea = Phacopsis huuskonenii Räsänen
- huuskonenii Diederich et al., Tremella**
- huxariensis (Beckh. ex J.Lahm) Zahlbr., Lecidea**
- hyaescens Vain., Rhizocarpon = Rhizocarpon distinctum Th.Fr.
- hyalina (Fr.) R.Sant., Lecania = Biatora globulosa (Flörke) Fr.
- hyalinella Nyl., Coniocybe = Sclerophora peronella (Ach.) Tibell
- hyalinella (Nyl.) Sacc., Roesleria = Sclerophora peronella (Ach.) Tibell
- hyalosporum Alstrup et al., Pyrenidium**
- hydrela Ach., Verrucaria**
- hydrocharum (Ach.) Zahlbr., Leptogium = Scytinium plicatile (Ach.) Otálora et al.
- hydrophila (Fr.) Hertel, Huilia = Porpidia hydrophila (Fr.) Hertel & A.J.Schwab
- hydrophila Fr., Lecidea = Porpidia hydrophila (Fr.) Hertel & A.J.Schwab
- hydrophila R.Sant., Lichenopeltella**
- hydrophila (Fr.) Hertel & A.J.Schwab, Porpidia**
- hydrophila Orange, Verrucaria**
- hydrophilum (Fr.) V.Wirth, Haplocarpon = Porpidia hydrophila (Fr.) Hertel & A.J.Schwab
- hygrophila Tibell, Chaenotheca**
- hygrophilum (Arnold) R.Sant., Stigidium**
- hygrophilus Arnold, Endococcus = Stigidium hygrophilum (Arnold) R.Sant.
- hylocomii Poelt & Döbbeler, Micarea**
- hymenea (Ach.) Schaer., Pertusaria**
- hymenina (Ach.) Delise, Peltigera**
- hymenogonia (Nyl.) Th.Fr., Staurothele**
- hyperborea (Ach.) Ach., Gyrophora = Umbilicaria hyperborea (Ach.) Hoffm.
- hyperborea Th.Fr., Polyblastia**
- hyperborea H.Magn., Rinodina = Rinodina septentrionalis Malme
- hyperborea (Ach.) Hoffm., Umbilicaria**
- hyperborea (Ach.) Hoffm. var. hyperborea, Umbilicaria**
- hyperborea (Ach.) Hoffm. var. radiculata (J.E. Zetterst.) Hasselrot, Umbilicaria**
- hyperboreorum (Zahlbr.) Oxner, Aspicilia hyperboreorum Zahlbr., Lecanora = Aspicilia hyperboreorum (Zahlbr.) Oxner
- hyperboreum (Vain.) Vain., Rhizocarpon = Rhizocarpon copelandii (Körb.) Th.Fr.
- hyperellum (Ach.) Ach., Calicium = Calicium viride Pers.
- hyperopta (Ach.) S.L.F.Meyer, Foraminella = Parmeliopsis hyperopta (Ach.) Arnold

hyperopta (Ach.) Arnold, Parmeliopsis

hyperopta var. esorediata Degel., Parmeliopsis =
Parmeliopsis esorediata (Degel.) Nordnes

hypnophila (Turner ex Ach.) Zahlbr., Bacidia =
Bilimbia sabuletorum (Schreb.) Arnold

hypnophila subsp. microcarpa (Th.Fr.) Th.Fr.,
Bacidia = Bilimbia microcarpa (Th.Fr.) Th.Fr.

hypnophila (Turner ex Ach.) Th.Fr., Bilimbia =
Bilimbia sabuletorum (Schreb.) Arnold

hypnophila subsp. accedens (Arnold) Th. Fr.,
Bilimbia = Bilimbia sabuletorum (Schreb.) Arnold

hypnophila subsp. microcarpa (Th.Fr.) Th. Fr.,
Bilimbia = Bilimbia microcarpa (Th.Fr.) Th.Fr.

hypnorum (Lib.) Fryday et al., Bryobilimbia

hypnorum Lib., Lecidea = Bryobilimbia hypnorum
(Lib.) Fryday et al.

hypnorum (Lib.) Kalb & Hafellner, Mycobilimbia =
Bryobilimbia hypnorum (Lib.) Fryday et al.

hypnorum (Vahl) Gray, Psoroma

hypnorum (Vahl) Gray var. campestre (Th.Fr.)
Räsänen, Psoroma

hypnorum (Vahl) Gray var. hypnorum, Psoroma

hypnorum var. paleaceum (Fr.) Rostr., Psoroma =
Psoroma paleaceum (Fr.) Timdal & Tønsberg

hypocenomycis D.Hawksw., Clypeococcum

hypocenomycis Diederich, Tremella

hypochlorella (Vain.) Vain., Catillaria = Lecidea
hypochlorella Vain.

hypochlorella Vain., Lecidea

hypocrita (A.Massal.) Fröberg, Farnoldia

hypocrita A.Massal., Lecidea = Farnoldia hypocrita
(A.Massal.) Fröberg

hypocyanea Vain., Lecidea = Brianaria sylvicola
(Flot. ex Körb.) S.Ekman & M.Svensson

hypogymniae Diederich & M.S.Christ., Tremella

hypogymniicola Diederich & Ahti, Cystobasidium

hypoleuca (Ach.) Zahlbr., Gyalecta

hypoleuca (Ach.) Vězda, Petractis = Gyalecta

hypoleuca (Ach.) Zahlbr.

hypopetraeum Vain., Stereocaulon = Stereocaulon
nanodes Tuck.

hypophaea Printzen & Tønsberg, Biatora

hypophaea, Lecanora = Sarcogyne hypophaeoides
Vain. ex H.Magn.

hypophaea Nyl., Lecanora = Sarcogyne hypophaea
(Nyl.) Arnold

hypophaea (Nyl.) Arnold, Sarcogyne

hypophaea (J.Steiner & Zahlbr.) Servit, Verrucaria =
Verrucaria subtilis Müll.Arg.

hypophaeoides Vain. ex H.Magn., Sarcogyne

hypopodioides (Nyl.) Arnold, Buellia = Buellia
leptocline (Flot.) Körb.

hypoprotocetrarica W.L.Culb., Ramalina = Ramalina
farinacea (L.) Ach.

hypopta (Ach.) Räsänen, Biatora = Lecanora hypopta
(Ach.) Vain.

hypopta (Ach.) Vain., Lecanora

hypopta Ach., Lecidea = Lecanora hypopta (Ach.)
Vain.

hypopta var. biatorea (Nyl.) Vain., Lecidea =
Lecanora hypopta (Ach.) Vain.

hypoptella (Nyl.) Grumann, Lecanora

hypoptoides (Nyl.) Nyl., Lecanora

hypoptoides Nyl., Lecidea = Lecanora hypoptoides
(Nyl.) Nyl.

hyporhoda Th.Fr., Lecidea = Placynthiella

hyporhoda (Th.Fr.) Coppins & P.James

**hyporhoda (Th.Fr.) Coppins & P.James,
Placynthiella**

hyporhoda (Th.Fr.) Clauzade & Cl.Roux,
Saccomorpha = Placynthiella hyporhoda (Th.Fr.)
Coppins & P.James

hypothetica Nyl., Lecanora

hypotremella Herk et al., Protoparmelia

hypotrypodes Nyl., Parmelia

hysgina (Wahlenb.) H.Magn., *Acarospora* =
Acarospora molybdina (Wahlenb.) A.Massal.

hysteriiformis Nyl., *Opegrapha* = *Arthonia calcarea*
(Turner ex Sm.) Ertz & Diederich

icmadophilae R.Sant., Stigmatidium

icmalea Ach., *Lecidea* = *Placynthiella icmalea* (Ach.)
Coppins & P.James

icmalea (Ach.) Coppins & P.James, Placynthiella

icmalea (Ach.) Clauzade & Cl.Roux, *Saccomorpha* =
Placynthiella icmalea (Ach.) Coppins & P.James

igniarii (Nyl.) Oxner, *Bacidia* = *Scutula igniarii*
(Nyl.) S.Ekman

igniarii Nyl., *Lecidea* = *Scutula igniarii* (Nyl.) S.
Ekman

igniarii (Nyl.) S.Ekman, Scutula

ignobile Th.Fr., *Rhizocarpon* = *Rhizocarpon*
cinereovirens (Müll.Arg.) Vain.

ignobilis (Anzi) P.M.Jørg., Fuscopannaria

ignobilis Anzi, *Pannaria* = *Fuscopannaria ignobilis*
(Anzi) P.M.Jørg.

iivaarense (Vain.) Forssell, *Pyrenopsisidium* =
Pyrenopsis furfurea (Nyl.) Leight.

iivaarense Vain., *Pyrenopsis* = *Pyrenopsis furfurea*
(Nyl.) Leight.

ileiformis Fr., Lecidea

ilicina Taylor, Arthonia

ilicinum (Taylor) P.James, *Arthothelium* = *Arthonia*
ilicina Taylor

illecebrosa (Dufour) Fr., *Lecanactis* = *Lecanographa*
amylacea (Ehrh. ex Pers.) Egea & Torrente

illecebrosa Dufour, *Opegrapha* = *Lecanographa*
amylacea (Ehrh. ex Pers.) Egea & Torrente

illimata (Wahlenb.) Ach., *Lecanora* = *Aspicilia*
cinerea (L.) Körb.

illinita (Nyl.) Hav., *Sagedia* = *Strigula stigmatella*
(Ach.) R.C.Harris

illinoisensis Servit, Verrucaria

illita (Nyl.) R.Sant., *Mosigia* = *Rimularia badioatra*
(Kremp.) Hertel & Rambold

illudens (Nyl.) Lyngé, *Bacidia* = *Toniniopsis illudens*
(Nyl.) Kistenich et al.

illudens (Nyl.) Kistenich et al., Toniniopsis

illyrica (Zahlbr.) Zahlbr., Evernia

illyrica (Zahlbr.) Harm., *Letharia* = *Evernia illyrica*
(Zahlbr.) Zahlbr.

imbricarica Kristinsson, Cladonia

imbricatum P.M.Jørg., *Leptogium* = *Scytinium*
imbricatum (P.M.Jørg.) Otálora et al.

imbricatum (P.M.Jørg.) Otálora et al., Scytinium

imitatrix Malme, *Bacidia* = *Cliostomum griffithii*
(Sm.) Coppins

**immersa (Hoffm.) Hafellner & Bellem.,
Clauzadea**

immersa (Hoffm.) Ach., *Lecidea* = *Clauzadea*
immersa (Hoffm.) Hafellner & Bellem.

immersa (Hoffm.) J.Steiner, *Protoblastenia* =
Clauzadea immersa (Hoffm.) Hafellner & Bellem.

immersa (Körb.) Zahlbr., *Rinodina* = *Rinodina*
bischoffii (Hepp) A.Massal.

immersa Hoffm., *Verrucaria* = *Clauzadea immersa*
(Hoffm.) Hafellner & Bellem.

immersum (Leight.) Mudd, *Thelidium* = *Thelidium*
decipiens (Nyl.) Kremp.

immersum (Leight.) Mudd, *Thelidium* = *Polyblastia*
decipiescens (Vain.) Zschacke

immersus Weber, *Lichen* = *Clauzadea immersa*
(Hoffm.) Hafellner & Bellem.

impavida (Th.Fr.) M.Westb. & Resl, Lambiella

impavida Th.Fr., *Lecidea* = *Lambiella impavida* (Th.
Fr.) M.Westb. & Resl

impavida (Th.Fr.) Hertel & Rambold, *Rimularia* =
Lambiella impavida (Th.Fr.) M.Westb. & Resl

impexa B.de Lesd., *Cladina* = *Cladonia portentosa*
(Dufour) Coem.

impexa Harm., *Cladonia* = *Cladonia portentosa*
(Dufour) Coem.

implexa (Hoffm.) Nyl., *Alectoria* = *Bryoria implexa*
(Hoffm.) Brodo & D.Hawksw.

implexa auct., *Alectoria* = *Bryoria capillaris* (Ach.) Brodo & D.Hawksw.

implexa* (Hoffm.) Brodo & D.Hawksw., *Bryoria

impolita (Hoffm.) Borrer, *Arthonia* = *Pachnolepia pruinata* (Pers.) Frisch & G.Thor

impolita* (Th.Fr.) Forssell, *Pyrenopsis

impresella (Nyl.) G.Salisb., *Ahlesia* = *Thelocarpon impresellum* Nyl.

impresellum* Nyl., *Thelocarpon

impresula* Th.Fr., *Acarospora

impresula var. *hospitans* (H. Magn.) Clauzade & Cl. Roux, *Acarospora* = *Acarospora hospitans* H.Magn.

impresum* (Stizenb.) Zschacke, *Thelidium

impresus Sw., *Lichen* = *Diploschistes muscorum* (Scop.) R.Sant.

improvisa (Nyl.) Almq., *Biatorella* = *Strangospora moriformis* (Ach.) Stein

improvisa subsp. *dryophila* Almq., *Biatorella* = *Biatorella dryophila* (Almq.) Th.Fr.

improvisa var. *extensa* (Vain.) Vain., *Biatorella* = *Biatorella extensa* (Vain.) Räsänen

impudens* Degel., *Lecanora

inaequalis* H.Magn., *Lecidea

inaequatula (Nyl.) Zahlbr., *Ochrolechia* = *Ochrolechia frigida* (Sw.) Lyngé

inaequatum Vain., *Embolidium* = *Chaenothecopsis debilis* (Sm.) Tibell

inamoena* (Th.Fr.) Th.Fr., *Lecanora

inamoena (Müll.Arg.) Hertel, *Lecidella* = *Lecidella patavina* (A.Massal.) Knoph & Leuckert

inarense Vain., *Hazslinszkya* = *Elixia flexella* (Ach.) Lumbsch

inarense* (Vain.) Vain., *Rhizocarpon

inaspecta* Servít, *Verrucaria

incana A.L.Sm., *Bombyliospora* = *Megalospora pachycarpa* (Delise ex Duby) H.Olivier

incana* (L.) Ach., *Lepraria

incarnata* Th.Fr. ex Almq., *Arthonia

incarnata Th.Fr. & Graewe, *Belonia* = *Gyalecta incarnata* (Th.Fr. & Graewe) Baloch & Lücking

incarnata (Th.Fr.) Zahlbr., *Gongylia* = *Gyalecta incarnata* (Th.Fr. & Graewe) Baloch & Lücking

incarnata* (Th.Fr. & Graewe) Baloch & Lücking, *Gyalecta

incarnata* (Leight.) Kukwa et al., *Ochrolechia

incarnata Leight., *Pertusaria* = *Ochrolechia incarnata* (Leight.) Kukwa et al.

incavata* H.Magn., *Psorotichia

incavatum* Mudd, *Thelidium

incincta Nyl., *Lecidea* = *Brianaria sylvicola* (Flot. ex Körb.) S.Ekman & M.Svensson

incinctum* (Vain.) Vain., *Thelidium

incolorata (Parrique) Essl., *Melanelia* = *Melanohalea elegantula* (Zahlbr.) O.Blanco et al.

incolorata (Parrique) Lettau, *Parmelia* = *Melanohalea elegantula* (Zahlbr.) O.Blanco et al.

incolorella Nyl., *Lecidea* = *Coenogonium pineti* (Ach.) Lücking & Lumbsch

incolorella (Nyl.) Zahlbr., *Microphiale* = *Coenogonium pineti* (Ach.) Lücking & Lumbsch

incompta (Borrer ex Hook.) Anzi, *Bacidia* = *Bellicidia incompta* (Borrer) Kistenich et al.

incompta* (Borrer) Kistenich et al., *Bellicidia

incongrua Nyl., *Lecidea* = *Lecidella stigmattea* (Ach.) Hertel & Leuckert

incongrua (Nyl.) Arnold, *Lecidella* = *Lecidella stigmattea* (Ach.) Hertel & Leuckert

incongruella Vain., *Lecidea* = *Lecidella effugiens* (Nilson) Knoph & Hertel

incongruella (Vain.) Hertel & Leuckert, *Lecidella* = *Lecidella effugiens* (Nilson) Knoph & Hertel

inconspicua (H.Magn.) Räsänen, *Aspicilia* = *Sagedia zonata* Ach.

inconspicua H.Magn., *Lecanora* = *Sagedia zonata* Ach.

inconspicua* Hafellner, *Lichenochora

inconspicua* Savić & Tibell, *Polyblastia

inversa (Nyl.) Blomb. & Forssell, Staurothele =
Staurothele fissa (Taylor) Zwackh

inversa Nyl., Verrucaria = Staurothele fissa
(Taylor) Zwackh

incrassata Flörke, Cladonia

incrassata H.Magn., Lecidea = Porpidia superba
(Körb.) Hertel & Knoph

incrassata Hedl., Micarea

incrassata (Nyl.) Motyka, Ramalina = Ramalina
siliquosa (Huds.) A.L.Sm.

incrustans (DC.) J.Steiner, Protoblastenia

incrustatum Flörke, Stereocaulon

incurva (Pers.) Hale, Arctoparmelia

incurva (Pers.) Fr., Parmelia = Arctoparmelia incurva
(Pers.) Hale

incurva f. lignicola Koskinen, Parmelia =
Arctoparmelia incurva (Pers.) Hale

incurva (Pers.) Hale, Xanthoparmelia =
Arctoparmelia incurva (Pers.) Hale

incurvoides Rass., Hypogymnia

indecoloratum Sommerf., Endocarpon

**indigenus (Vain.) S.Ekman & J.Gerasimova,
Bacidina**

indissimilis (H.Magn.) Räsänen, Aspicilia

indissimilis H.Magn., Lecanora = Aspicilia
indissimilis (H.Magn.) Räsänen

inferior Nyl., Lecidea = Farnoldia jurana (Schaer.)
Hertel

infernum (Nyl.) Lyngby, Rhizocarpon

infernum (Nyl.) Hav., Catocarpon = Rhizocarpon
infernum (Nyl.) Lyngby

infidula Nyl., Lecidea = Brianaria bauschiana
(Körb.) S.Ekman & M.Svensson

infralaponica Vain., Lecidea = Lecidea globulisporea
Nyl.

infralaponica Vain., Pertusaria = Anzina
carneonivea (Anzi) Scheid.

infumata (Nyl.) Essl., Melanelia = Melanohalea
infumata (Nyl.) O.Blanco et al.

infumata (Nyl.) O.Blanco et al., Melanohalea

infumata Nyl., Parmelia = Melanohalea infumata
(Nyl.) O.Blanco et al.

infumata Nyl., Verrucaria

injucunda (Vain.) H.Magn., Buellia = Buellia
ectolechioides (Vain.) Erichsen

inops Th.Fr., Lecidea

inornata (Nyl.) Blomb. & Forssell, Bacidia =
Toniniopsis inornata (Nyl.) S.Ekman & Coppins

inornata Nyl., Lecidea = Toniniopsis inornata (Nyl.)
S.Ekman & Coppins

inornata (Nyl.) S.Ekman & Coppins, Toniniopsis

inornata Servit, Verrucaria

inquinans Tul., Abrothallus = Micarea inquinans
(Tul.) Coppins

inquinans (Sm.) A.Massal., Acolium

inquinans (Sm.) Trevis., Cyphelium = Acolium
inquinans (Sm.) A.Massal.

inquinans (Tul.) Nyl., Lecidea = Micarea inquinans
(Tul.) Coppins

inquinans (Tul.) Coppins, Micarea

inquinans (Tul.) A.Massal., Nesolechia = Micarea
inquinans (Tul.) Coppins

inquinata (Ach.) Th.Fr., Pertusaria = Pertusaria
chiodectonoides Bagl. ex A.Massal.

insequens Nyl., Lecidea = Lecanora hypopta (Ach.)
Vain.

insidiosa Nyl., Hymenobia = Hymenobia aporea
(Nyl.) D.Hawksw. & O.E.Erikss.

insidiosa Th.Fr., Lecidea = Ramboldia insidiosa (Th.
Fr.) Hafellner

insidiosa (Th.Fr.) Hafellner, Ramboldia

insignis H.Magn., Acarospora

insignis (Nägeli ex Hepp) Körb., Buellia =
Tetramelas insignis (Nägeli ex Hepp) Kalb

insignis (Nägeli ex Hepp) Kalb, Tetramelas

insolata H.Magn., Acarospora

insolata (H.Magn.) Hav., Aspicilia

insolata H.Magn., Lecanora = *Aspicilia insolata* (H. Magn.) Hav.

inspersa auct., *Karschia* = *Sclerococcum parasiticum* (Flörke) Ertz & Diederich

inspersa (Tul.) Rehm, *Leciographa* = *Sclerococcum parasiticum* (Flörke) Ertz & Diederich

instrata Nyl., *Lecidea* = *Miriquidica instrata* (Nyl.) Hertel & Rambold

instrata (Nyl.) Hertel & Rambold, Miriquidica

instratula (Nyl.) Cl.Roux, *Clauzadeana* = *Clauzadeana macula* (Taylor) Coppins & Rambold

instratula Nyl., *Lecidea* = *Clauzadeana macula* (Taylor) Coppins & Rambold

insulare (A.Massal.) Mig., *Dermatocarpon* = *Heteroplacidium fuscum* (Nyl.) Gueidan & Cl. Roux

insularis (Nyl.) T.Sprib., Lambiella

insularis Nyl., *Lecidea* = *Lambiella insularis* (Nyl.) T.Sprib.

insularis (Nyl.) Rambold & Hertel, *Rimularia* = *Lambiella insularis* (Nyl.) T.Sprib.

insularis (Arnold) Hafellner, Rinodina

insularis (A.Massal.) Jatta, *Verrucaria* = *Heteroplacidium fuscum* (Nyl.) Gueidan & Cl. Roux

integra (Nyl.) Nyl., Verrucaria

integra sensu Malme, *Verrucaria* = *Verrucaria aspicilioides* Vain.

integrascens (Nyl.) Vain., Polyblastia

integrella (Nyl.) Nyl., *Verrucaria* = *Verrucaria caesiopsila* Anzi

intercedens H.Magn., *Lecanora* = *Rimularia*

intercedens (H.Magn.) Coppins

intercedens (H.Magn.) R.Sant., *Mosigia* = *Rimularia*

intercedens (H.Magn.) Coppins

intercedens (Nyl.) Lönnr., *Polyblastia* = *Polyblastia cupularis* A.Massal.

intercedens sensu Th.Fr., *Polyblastia* = *Polyblastia hyperborea* Th.Fr.

intercedens f. *velata* Th.Fr., *Polyblastia* = *Polyblastia velata* (Th.Fr.) Vain.

intercedens (H.Magn.) Coppins, Rimularia

intercedens var. *aethioboloides* Nyl., *Verrucaria* = *Thelidium minutulum* Körb.

intercincta (Nyl.) Poelt, Fuscidea

intercincta Nyl., *Lecanora* = *Fuscidea intercincta* (Nyl.) Poelt

interfixa (Nyl.) Vain., Arctomia

interjecta (Leight.) Th.Fr., *Encephalographa* = *Poeltinula interjecta* (Leight.) Hafellner

interjecta (Leight.) A.L.Sm., *Melaspilea* = *Poeltinula interjecta* (Leight.) Hafellner

interjecta (Leight.) Hafellner, Poeltinula

interjecta Coppins, Ramonia

interjungens (Nyl.) Zahlbr., *Porina* = *Pseudosagedia*

interjungens (Nyl.) Hafellner & Kalb

interjungens (Nyl.) Hafellner & Kalb, Pseudosagedia

interludens Nyl., Lecidea

intermedia H.Magn., Acarospora

intermedia (Hepp ex Stizenb.) Arnold, *Bacidia* = *Bacidina assulata* (Körb.) S.Ekman

intermedia Vain., *Physcia* = *Physcia dubia* (Hoffm.) Lettau

intermedia Th.Fr., Polyblastia

intermedia (Delise ex Nyl.) Nyl., Ramalina

intermedia auct., *Ramalina* = *Ramalina pollinaria* (Westr.) Ach.

intermedia Vouaux, *Sphaerulina* = *Sphaerulina dolichotera* (Nyl.) Vouaux

intermedia (A.Massal. ex Arnold) H.Olivier, *Toninia* = *Thalloidima alutaceum* Anzi

intermediellum Räsänen, Rhizocarpon

intermediellum Nyl., Thelocarpon

intermedium (Arnold) Arnold, *Leptogium* = *Scytinium intermedium* (Arnold) Otálora et al.

intermedium (Arnold) Otálora et al., Scytinium

intermissa (Nyl.) Malme, Bacidia = Bacidia absistens (Nyl.) Arnold

intermissa Nyl., Lecidea = Bacidia absistens (Nyl.) Arnold

intermixta auct., Catillaria = Megalaria laureri (Hepp ex Th.Fr.) Hafellner

intermixta auct., Catinaria = Megalaria laureri (Hepp ex Th.Fr.) Hafellner

intermixta sensu Nyl., Lecidea = Megalaria laureri (Hepp ex Th.Fr.) Hafellner

intermixta var. lignaria Nyl., Lecidea = Catinaria atropurpurea (Schaer.) Vězda & Poelt

intermutans (Nyl.) Arnold, Aspicilia = Aspiciliella

intermutans (Nyl.) M.Choisy

intermutans (Nyl.) M.Choisy, Aspiciliella

intermutans Nyl., Lecanora = Aspiciliella

intermutans (Nyl.) M.Choisy

internigrescens (Nyl.) Erichsen, Verrucaria

interpolata (Stirt.) Sheard, Rinodina

interruptum (Nyl.) Tibell, Phaeocalicium

interseptula (Nyl.) A.L.Sm., Porina = Pseudosagedia

interjungens (Nyl.) Hafellner & Kalb

intersistens (Nyl.) Zahlbr., Arthopyrenia

intersistens (Nyl.) Vain., Metasphaeria = Arthopyrenia intersistens (Nyl.) Zahlbr.

intersistens Nyl., Verrucaria = Arthopyrenia

intersistens (Nyl.) Zahlbr.

intersitum Arnold, Rhizocarpon

interspersula (Nyl. in Brenner) Zahlbr., Bacidia = Scoliciosporum chlorococcum (Graewe ex Stenh.) Vězda

intestiniforme (Körb.) Hasse, Dermatocarpon = Dermatocarpon miniatum (L.) W.Mann var. complicatum (Lightf.) Th.Fr.

intestiniformis (Vill.) Goward, Brodoa

intestiniformis (Vill.) Räsänen, Hypogymnia = Brodoa intestiniformis (Vill.) Goward

intestiniformis var. atrofusca (Schaer.) Poelt, Hypogymnia = Brodoa atrofusca (Schaer.) Goward

intestiniformis (Vill.) Ach., Parmelia = Brodoa intestiniformis (Vill.) Goward

intestiniformis var. atrofusca (Schaer.) Hasselrot, Parmelia = Brodoa atrofusca (Schaer.) Goward

intexta Almq., Arthonia

intexta var. pauperrima Almq., Arthonia = Arthonia intexta Almq.

intexta Stirt., Usnea = Usnea cornuta Körb.

intricans (Vain.) Motyka, Alectoria = Bryoria fuscescens (Gyeln.) Brodo & D.Hawksw.

intricans (Vain.) Brodo & D.Hawksw., Bryoria = Bryoria fuscescens (Gyeln.) Brodo & D.Hawksw.

intricata H.Magn., Acarospora = Timdalia intricata (H.Magn.) Hafellner

intricata (Ach.) Ach., Lecanora

intricata var. soralifera Suza, Lecanora = Lecanora soralifera (Suza) Räsänen

intricata Ach, Parmelia = Lecanora intricata (Ach.) Ach.

intricata (Delise) Vain., Pseudocyphellaria

intricata Delise, Sticta = Pseudocyphellaria intricata (Delise) Vain.

intricata var. thouarsii (Delise) Nyl., Sticta = Pseudocyphellaria intricata (Delise) Vain.

intricata (H.Magn.) Hafellner, Timdalia

intricatum (Arnold) Zahlbr., Lempholemma

intrudens (H.Magn.) Hafellner, Carbonea

intrudens H.Magn., Lecanora = Miriquidica

intrudens (H.Magn.) Hertel & Rambold

intrudens H.Magn., Lecidea = Carbonea intrudens (H.Magn.) Hafellner

intrudens (H.Magn.) Hertel & Rambold, Miriquidica

intrusa (Th.Fr.) Rambold & Triebel, Carbonea = Scoliciosporum intrusum (Th.Fr.) Hafellner

intrusa (Th.Fr.) Th.Fr., Catillaria = Scoliciosporum intrusum (Th.Fr.) Hafellner

intrusa Th.Fr., Lecidea = Scoliciosporum intrusum (Th.Fr.) Hafellner

intrusa (Th.Fr.) Coppins & H.Kilias, Micarea =
Scoliciosporum intrusum (Th.Fr.) Hafellner

intrusum (Th.Fr.) Hafellner, Scoliciosporum

intumescens (Rebent.) Rabenh., Lecanora

intumescens (Flörke ex Flot.) Nyl., Lecidea =
Lambiella insularis (Nyl.) T.Sprib.

inumbata (Nyl.) Arnold, Polyblastia = Sporodictyon
terrestre (Th.Fr.) Savić & Tibell

inundata (Fr.) Körb., Bacidia = Bacidina inundata
(Fr.) Vězda

inundata (Fr.) Vězda, Bacidina

inundata (Körb.) M.Mayrhofer, Lecania

inundata (Vain.) Diederich, Neocoleroa

invadens Lyngae, Caloplaca = Pachypeltis invadens
(Lyngae) Søchting et al.

invadens H.Magn., Lecanora = Myriolecis invadens
(H.Magn.) Śliwa et al.

invadens (H.Magn.) Śliwa et al., Myriolecis

invadens (Lyngae) Søchting et al., Pachypeltis

invenusta H.Magn., Lecidea = Miriquidica
leucophaea (Flörke ex Rabenh.) Hertel & Rambold

invenusta H.Magn., Verrucaria

inverecundula Pykälä & Myllys, Verrucaria

invertens Vain., Bacidia = Scutula igniarii (Nyl.) S.
Ekman

involuta (Taylor) Hertel, Trapelia = Trapelia
glebulosa (Sm.) J.R.Laundon

iocarpum (Nyl.) Nyl., Collemopsidium

iodes H.Mayrhofer & Poelt, Rinodina = Rinodina
luridata (Körb.) et al.

iodopulchra (Croz.) Henssen, Gonohymenia

irmscheriana Erichsen, Verrucaria

irregularis H.Magn., Caloplaca = Flavoplaca
microthallina (Wedd.) Arup et al.

irrigua Orange, Porpidia

irrupens Hertel, Lecidea

ischnobela (Nyl.) Coppins, Leptorhaphis =
Celotheium ischnobelum (Nyl.) M.B.Aguirre

ischnobela (Nyl.) Keissl., Tomasellia = Celotheium
ischnobelum (Nyl.) M.B.Aguirre

ischnobelum (Nyl.) M.B.Aguirre, Celotheium

isidiata (H.Magn.) H.Magn., Lecanora = Sagedia
simoënsis (Räsänen) A.Nordin et al.

isidiata Degel., Pannaria = Vestergrenopsis isidiata
(Degel.) E.Dahl

isidiata (Degel.) E.Dahl, Vestergrenopsis

isidiatum (Degel.) Hafellner & T.Sprib.,
Tingiopsidium = Vestergrenopsis isidiata (Degel.) E.
Dahl

isidiifera Erichsen, Pertusaria = Pertusaria coronata
(Ach.) Th.Fr.

isidiigera Vězda, Caloplaca

isidiodes Nyl. ex Arnold, Collema = Lempholemma
isidiodes (Nyl. ex Arnold) H.Magn.

**isidiodes (Nyl. ex Arnold) H.Magn.,
Lempholemma**

isidioides (Borrer) H.Olivier, Rinodina

isidiosum (Nyl.) Gyeln., Nephroma

isidiotyta Nyl., Parmelia = Xanthoparmelia loxodes
(Nyl.) O.Blanco et al.

isidiotyta var. glomellifera (Nyl.) Maas Geest.,
Parmelia = Xanthoparmelia verruculifera (Nyl.) O.
Blanco et al.

islandica (L.) Ach., Cetraria

**islandica (L.) Ach. subsp. crispiformis (Räsänen)
Kärnefelt, Cetraria**

islandica (L.) Ach. subsp. islandica, Cetraria

islandica var. paludosa Räsänen, Cetraria = Cetraria
islandica (L.) Ach. subsp. islandica

isotorquensis Alstrup, Acarospora = Myriospora
smaragdula (Wahlenb. ex Ach.) Nägeli ex Uloth

italicum auct., Calicium = Chaenothecopsis pusilla
(Ach.) A.F.W.Schmidt

italicum (Sacc. & Speg.) Gola, Calicium

italicum auct., Embolidium = Chaenothecopsis
pusilla (Ach.) A.F.W.Schmidt

ivalensis Vain., Lecidea

jackii Tønsberg, Lepraria

jamesii Swinscow, Geisleria = Strigula jamesii (Swinscow) R.C.Harris

jamesii J.R.Laundon, Lecanora

jamesii S.Ahlner & P.M.Jørg., Parmeliella = Parmeliella parvula P.M.Jørg.

jamesii (Swinscow) R.C.Harris, Strigula

japewiae Grube & Holien, Arthonia

jeckeri (Roum.) Kalb, Punctelia

jemtlandensis H.Magn., Lecidea = Lecidea swartzioidea Nyl.

jemtlandica H.Magn., Caloplaca = Caloplaca turkuensis (Vain.) Zahlbr.

jemtlandica Th.Fr. & Almq., Catillaria = Megalaria jemtlandica (Th.Fr. & Almq.) Fryday

jemtlandica (Th.Fr. & Almq.) Fryday, Megalaria

jemtlandicum Malme, Rhizocarpon

jenensis (Batsch) Zahlbr., Gyalecta

jenensis var. deminuta Norman ex Lettau, Gyalecta = Gyalecta kukriensis (Räsänen) Räsänen

jenensis Batsch, Peziza = Gyalecta jenensis (Batsch) Zahlbr.

juankoskiensis Pykälä & Myllys, Verrucaria

jubata auct., Alectoria = Bryoria fuscescens (Gyeln.) Brodo & D.Hawksw.

jubata var. chalybeiformis (L.) Ach., Alectoria = Bryoria fuscescens (Gyeln.) Brodo & D.Hawksw.

juglandis (A.Massal.) Keissl., Mycarthopyrenia = Arthopyrenia grisea (Schleich. ex Schaer.) Körb.

jugorum (Arnold) Arnold, Buellia

juistense (Erichsen) R.C.Harris, Anisomeridium = Anisomeridium polypori (Ellis & Everh.) M.E.Barr

juistense Erichsen, Thelidium = Anisomeridium polypori (Ellis & Everh.) M.E.Barr

jungermanniae (Vahl) Søchting et al., Bryoplaca

jungermanniae (Vahl) Th.Fr., Caloplaca = Bryoplaca jungermanniae (Vahl) Søchting et al.

jungermanniae var. subolivacea (Th.Fr.) Th.Fr., Caloplaca = Parvoplaca tirolensis (Zahlbr.) Arup et al.

jungermanniae Nyl., Normandina = Normandina pulchella (Borrer) Nyl.

juniperina (L.) Ach., Cetraria = Vulpicida

juniperinus (L.) J.-E.Mattsson & M.J.Lai

juniperina var. alvarensiformis Du Rietz, Cetraria = Vulpicida tubulosus (Schaer.) J.-E.Mattsson & M.J. Lai

juniperina var. alvarensis (Wahlenb.) Torss., Cetraria = Vulpicida tubulosus (Schaer.) J.-E.Mattsson & M.J. Lai

juniperina var. campestris Stenh., Cetraria = Vulpicida tubulosus (Schaer.) J.-E.Mattsson & M.J. Lai

juniperina var. pseudopinastris Du Rietz, Cetraria = Vulpicida tubulosus (Schaer.) J.-E.Mattsson & M.J. Lai

juniperina var. terrestris Schaer., Cetraria = Vulpicida juniperinus (L.) J.-E.Mattsson & M.J.Lai

juniperina (L.) Hale, Tuckermannopsis = Vulpicida juniperinus (L.) J.-E.Mattsson & M.J.Lai

juniperinus (L.) J.-E.Mattsson & M.J.Lai, Vulpicida

jurana (Schaer.) Hertel, Farnoldia

jurana Schaer., Lecidea = Farnoldia jurana (Schaer.) Hertel

jurana var. sublutescens (Nyl.) Hertel, Lecidea = Farnoldia dissipabilis (Nyl.) Hertel

jurana (Schaer.) Hertel, Melanolecia = Farnoldia jurana (Schaer.) Hertel

jurana (Schaer.) Hertel, Tremolecia = Farnoldia jurana (Schaer.) Hertel

juvenalis Brodo, Ochrolechia

kairamoi (Vain.) Moberg, Phaeophyscia

kairamoi Vain., Physcia = Phaeophyscia kairamoi (Vain.) Moberg

kajanita Nyl., Lecidea = Lecidea polycocca Sommerf.

kalenskyi Servit, Verrucaria

kalkuense Räsänen, Polychidium = Polychidium muscicola (Sw.) Gray

kanewskii auct. norv., Cladonia = Cladonia zopfii Vain.

karelica (H.Magn.) Oxner, Aspicilia

karelica H.Magn., Lecanora = Aspicilia karelica (H. Magn.) Oxner

karelica Vain., Verrucaria

karelicum (Vain.) M.Prieto & Wedin, Acolium

karelicum (Vain.) Räsänen, Cyphelium = Acolium karelicum (Vain.) M.Prieto & Wedin

kariana Räsänen, Lecanora

kattegattensis H.Magn., Lecanora = Lecanora helicopsis (Wahlenb.) Ach.

keimioënsis Vain., Lecidea

kelpii Körb., Arthopyrenia = Collemopsidium halodytes (Nyl.) Grube & B.D.Ryan

kemensis Räsänen, Varicellaria = Varicellaria rhodocarpa (Körb.) Th.Fr.

kenmorensis (H.B.Holl ex Nyl.) Crombie, Lichiniza = Porocyphus kenmorensis (H.B.Holl ex Nyl.) Henssen

kenmorensis (H.B.Holl ex Nyl.) Henssen, Porocyphus

kenmorensis H.B.Holl ex Nyl., Synalissa = Porocyphus kenmorensis (H.B.Holl ex Nyl.) Henssen

kernerii J.Steiner, Polycoccum

kernstockii Zschacke, Verrucaria = Hydropunctaria rheitrophila (Zschacke) C.Keller et al.

killiasii (Hepp) D.Hawksw., Bacidia

killiasii (Hepp) Rehm, Mycobilimbia = Bacidia killiasii (Hepp) D.Hawksw.

kiskoensis Pykälä & Myllys, Verrucaria

kittilensis Vain., Lecidea = Lecidea praenubila Nyl.

kochiana (Hepp) V.Wirth & Vězda, Fuscidea

kochiana Hepp, Lecidea = Fuscidea kochiana (Hepp) V.Wirth & Vězda

kodiakensis Printzen & Tønsberg, Biatora

koenigii Retz., Lichen = Rhizocarpon oederi (Weber) Körb.

koerberi Stein, Leptorhaphis = Sagediopsis aquatica (Stein) Triebel

koerberi (Flot.) Lettau, Porina = Pseudosagedia guentheri (Flot.) Hafellner & Kalb

koerberi A.Massal., Psora = Lecidea fuliginosa Taylor

koerberiana J.Lahm, Lecania

kolaënsis (Nyl.) Hertel & Rambold, Adelolecia

kolaënsis Nyl., Lecidea = Adelolecia kolaënsis (Nyl.) Hertel & Rambold

koliensis Räsänen, Nesolechia = Tephromela koliensis (Räsänen) Rambold & Triebel

koliensis (Räsänen) Rambold & Triebel, Tephromela

koltarum Räsänen, Lecidea = Porpidia speirea (Ach.) Kremp.

koskinenii Räsänen, Biatora = Lecidea koskinenii (Räsänen) H.Magn.

koskinenii (Räsänen) H.Magn., Lecidea

krempelhuberi Körb., Scutula = Scutula tuberculosa (Th.Fr.) Rehm

kristinssonii Vitik., Peltigera

krogiana Løfall & Timdal, Cladonia

kuemmerleana (Gyeln.) Brodo & D.Hawksw., Bryoria

kukriensis (Räsänen) Räsänen, Gyalecta

kullensis Zopf, Ramalina = Ramalina siliquosa (Huds.) A.L.Sm.

kultalensis Vain., Lecanora = Miriquidica complanata (Körb.) Hertel & Rambold

kuopioënsis (Vain.) Vain., Bacidia = Scoliciosporum ophiosporum (Hellb.) Hav.

kuopioënsis Vain., Lecidea = Scoliciosporum ophiosporum (Hellb.) Hav.

kuusamoensis Pykälä et al., Verrucaria

kuusamoënsis Räsänen, Candelariella

kylemoriensis (Larbal. ex Leight.) Cromb.,
Sphinctrina = Sphinctrina leucopoda Nyl.

laatokkaënsë Räsänen, Dermatocarpon =
Dermatocarpon deminuens Vain.

laatokkaënsis (Räsänen) Poelt, Lecanora =
Protoparmeliopsis laatokkaënsis (Räsänen) Moberg
& R.Sant.

laatokkaënsis Räsänen, Parmularia =
Protoparmeliopsis laatokkaënsis (Räsänen) Moberg
& R.Sant.

**laatokkaënsis (Räsänen) Moberg & R.Sant.,
Protoparmeliopsis**

laboriosa Müll.Arg., Lecidea

lacerum (Retz.) Gray, Leptogium = Scytinium
lichenoides (L.) Otálora et al.

lachneum (Ach.) R.Sant., Catapyrenium = Placidium
lachneum (Ach.) B.de Lesd.

lachneum (Ach.) A.L.Sm., Dermatocarpon =
Placidium lachneum (Ach.) B.de Lesd.

lachneum (Ach.) B.de Lesd., Placidium

**lachneum (Ach.) B.de Lesd. var. lachneum,
Placidium**

**lachneum (Ach.) B.de Lesd. var. oleosum Breuss,
Placidium**

laciniata (Huds.) Vain., Lobaria = Lobaria
amplissima (Scop.) Forssell

laciniatula (Flagey ex H.Olivier) Essl., Melanelia =
Melanohalea laciniatula (Flagey ex H.Olivier) O.
Blanco et al.

**laciniatula (Flagey ex H.Olivier) O.Blanco et al.,
Melanohalea**

laciniatula (Flagey ex H.Olivier) Zahlbr., Parmelia =
Melanohalea laciniatula (Flagey ex H.Olivier) O.
Blanco et al.

lacinulatum (Ach.) Breuss, Catapyrenium =
Clavascidium lacinulatum (Ach.) M.Prieto

lacinulatum (Ach.) M.Prieto, Clavascidium

lacinulatum (Ach.) Breuss, Placidium =
Clavascidium lacinulatum (Ach.) M.Prieto

lacoizquetæ Etayo & Diederich, Milospium

lactea auct., Caloplaca = Xanthocarpia crenulatella
(Nyl.) Frödén et al.

lactea (A.Massal.) Zahlbr., Caloplaca = Xanthocarpia
lactea (A.Massal.) A.Massal.

lactea Flörke ex Schaer., Lecidea = Lecidea lapicida
(Ach.) Ach. var. pantherina Ach.

lactea var. ecrustacea (Arnold) Clauzade & Cl.Roux,
Lecidea = Lecidea ecrustacea (Anzi ex Arnold)
Arnold

lactea (L.) Hafellner & Matzer, Ochrolechia =
Varicellaria lactea (L.) I.Schmitt & Lumbsch

lactea (L.) Arnold, Pertusaria = Varicellaria lactea
(L.) I.Schmitt & Lumbsch

lactea (L.) I.Schmitt & Lumbsch, Varicellaria

lactea (A.Massal.) A.Massal., Xanthocarpia

lactucifolia auct., Peltigera = Peltigera hymenina
(Ach.) Delise

lacunosa f. norvegica Lynge, Cetraria = Platismatia
norvegica (Lynge) W.L.Culb. & C.F.Culb.

lacustre Arnold, Thelidium = Zwackhiomyces
lacustris (Arnold) Orange

lacustris (With.) Th.Fr., Aspicilia = Ionaspis lacustris
(With.) Lutzoni

lacustris (With.) M.Choisy, Hymenelia = Ionaspis
lacustris (With.) Lutzoni

lacustris (With.) Lutzoni, Ionaspis

lacustris (With.) Nyl., Lecanora = Ionaspis lacustris
(With.) Lutzoni

lacustris (Arnold) Zopf, Pharcidia = Zwackhiomyces
lacustris (Arnold) Orange

lacustris P.M.Jørg. & R.Sant., Pterygiopsis

lacustris (Arnold) Orange, Zwackhiomyces

laeta Launis & Myllys, Micarea

laetevirens (Lightf.) Zahlbr., Lobaria = Lobaria
virens (With.) J.R.Laundon

laetevirens (Borrer) Nyl., Normandina =
Lichenomphalia hudsoniana (H.S.Jenn.) Redhead et
al.

laetevirens (Flot. ex Körb.) F.Rosend., Parmelia =
Melanelixia glabratula (Lamy) Sandler & Arup

laetevirens (Lightf.) Leight., Ricasolia = Lobaria
virens (With.) J.R.Laundon

laetevirens (Wedd.) Zschacke, Verrucaria =
Wahlenbergiella striatula (Wahlenb.) Gueidan &
Thüs

laevata (Ach.) Arnold, Aspicilia

laevata (Ach.) Nyl., Lecanora = Aspicilia laevata
(Ach.) Arnold

laevata Ach., Verrucaria = Verrucaria aethiobola
Wahlenb.

laevatoides (H.Magn.) Oxner, Aspicilia

laevatoides H.Magn., Lecanora = Aspicilia

laevatoides (H.Magn.) Oxner

laevigata Nád., Chaenotheca

laevigata (Sm.) Hale, Hypotrachyna

laevigata f. dispersella Vain., Lecanora = Rinodina
septentrionalis Malme

laevigata (Sm.) Ach., Parmelia = Hypotrachyna

laevigata (Sm.) Hale

laevigata (Nyl.) Arnold, Pertusaria = Lepra
trachythallina (Erichsen) Lendemèr & R.C.Harris

laevigata (Th.Fr.) Anzi, Pertusaria = Pertusaria
alpina Hepp ex Ahles

laevigata (Pers.) Arnold, Pyrenula

laevigata (Ach.) Malme, Rinodina

laevigata f. subathallina H.Magn., Rinodina =
Rinodina trevisanii (Hepp) Körb.

laevigatum Ach., Nephroma

laevigatum auct., Nephroma = Nephroma bellum
(Spreng.) Tuck.

laevigatum (Ach.) Körb., Nephromium = Nephroma
laevigatum Ach.

lambii Hertel & V.Wirth, Placopsis

lamprocheila (DC.) Flagey, Caloplaca = Rufoplaca
arenaria (Pers.) Arup et al.

lamyi (O.J.Rich ex Nyl.) Sacc., Leciographa =
Opegrapha lamyi (O.J.Rich ex Nyl.) Triebel

lamyi (O.J.Rich ex Nyl.) Triebel, Opegrapha

lanata (L.) Vain., Ephebe

lanata f. tenuis H.Magn., Ephebe = Zahlbrucknerella
calcareo (Herre) Zahlbr.

lanata auct., Parmelia = Pseudephebe pubescens (L.)
M.Choisy

landroënsis Zopf, Ramalina = Ramalina sinensis
Jatta

lanea (Ehrh. ex Hoffm.) Vain., Alectoria =
Pseudephebe pubescens (L.) M.Choisy

lanea auct., Alectoria = Bryoria nitidula (Th.Fr.)
Brodo & D.Hawksw.

lanestris (Ach.) Gyeln., Alectoria = Bryoria
fuscescens (Gyeln.) Brodo & D.Hawksw.

lanestris (Ach.) Brodo & D.Hawksw., Bryoria =
Bryoria fuscescens (Gyeln.) Brodo & D.Hawksw.

lanuginosa (Ach.) Hue, Crocynia = Lepraria
membranacea (Dicks.) Vain.

lanuginosum (Ach.) Nyl., Amphiloma = Lepraria
membranacea (Dicks.) Vain.

laongiana Hav., Rinodina = Amandinea coniois
(Wahlenb.) M.Choisy ex Scheid. & H.Mayrhofer

lapicida (Ach.) Ach., Lecidea

lapicida var. griseolurida Nyl., Lecidea = Lecidea
silacea (Hoffm.) Ach.

lapicida (Ach.) Ach. var. lapicida, Lecidea

**lapicida (Ach.) Ach. var. pantherina Ach.,
Lecidea**

lapidicola auct., Allarthonia = Arthonia fusca (A.
Massal.) Hepp

lapidicola (Taylor) Branth & Rostr., Arthonia =
Bryostigma lapidicola (Taylor) S.Y.Kondr. & J.-S.
Hur

lapidicola auct., Arthonia = Arthonia fusca (A.
Massal.) Hepp

**lapidicola (Taylor) S.Y.Kondr. & J.-S.Hur,
Bryostigma**

lapillicola Vain., Lecidea = Micarea lapillicola
(Vain.) Coppins & Muhr

lapillicola (Vain.) Coppins & Muhr, Micarea

lapillorum Vain., Lecidea = Rhizocarpon reductum
Th. Fr.

lapillorum (Vain.) Vain., Rhizocarpon = Rhizocarpon reductum Th. Fr.

lapponica (Ach. ex Schaer.) Th.Fr., Acarospora = Sarcogyne lapponica (Ach. ex Schaer.) K.Knudsen & Kocourk.

lapponica var. sileciaca H.Magn., Acarospora = Acarospora subfuscescens (Nyl.) H.Magn.

lapponica Hue, Aspicilia = Aspilea myrinii (Fr.) Hafellner

lapponica (Ach. ex Schaer.) Almq., Biatorella = Sarcogyne lapponica (Ach. ex Schaer.) K.Knudsen & Kocourk.

lapponica Nyl., Ephebe = Ephebe lanata (L.) Vain.

lapponica Ihlen, Epicladonia

lapponica Servít, Involucrothele = Thelidium lapponicum (Servít)

lapponica A.J.Schwab & Rambold, Miriquidica

lapponica (Räsänen) Hafellner & R.W. Rogers, Ophioparma

lapponica (Ach. ex Schaer.) Degel., Polysporina = Sarcogyne lapponica (Ach. ex Schaer.) K.Knudsen & Kocourk.

lapponica (Ach. ex Schaer.) K.Knudsen & Kocourk., Sarcogyne

lapponica Servít, Thelidiopsis

lapponica Vain., Usnea

lapponica Pykälä, Verrucaria

lapponicum Räsänen, Haematomma = Ophioparma lapponica (Räsänen) Hafellner & R.W. Rogers

lapponicum var. violascens Räsänen, Haematomma = Ophioparma ventosa (L.) Norman

lapponicum (Servít), Thelidium

lapponicus Poelt & Hertel, Pachyascus

lapponina Anzi, Arthopyrenia = Arthopyrenia analepta (Ach.) A.Massal.

lapuënsis (Vain.) Räsänen, Ochrolechia = Ochrolechia frigida (Sw.) Lyngé

larianum A.Massal., Thelidium

laricicola Nyl., Xylographa = Xylographa parallela (Ach.:Fr.) Fr.

laricina Vain. ex Räsänen, Usnea = Usnea glabrescens (Nyl. ex Vain.) Vain. ex Räsänen

latebrarum (Ach.) Ertz & Tehler, Dendrographa

latebrarum (Ach.) Arnold, Lecanactis = Dendrographa latebrarum (Ach.) Ertz & Tehler

latebrarum (Ach.) Ach., Lepraria = Dendrographa latebrarum (Ach.) Ertz & Tehler

latebrosa sensu Magnusson, Thelidium = Verrucaria latebrosa Körb.

latebrosa Körb., Verrucaria

latiloba Holt.-Hartw., Peltigera

latispora (Lyngé) H.Magn., Caloplaca

latro Poelt, Lecanora

latypea Ach., Lecidea = Lecidea plana (J.Lahm) Nyl.

latypea auct., Lecidea = Lecidella carpathica Körb.

latypiza auct., Lecidea = Lecidella carpathica Körb.

latypizodes (Nyl.) Knoph & Rambold, Carbonea

latypizodes Nyl., Lecidea = Carbonea latypizodes (Nyl.) Knoph & Rambold

laureri Hepp ex Th.Fr., Catillaria = Megalaria laureri (Hepp ex Th.Fr.) Hafellner

laureri (Hepp ex Th.Fr.) Degel., Catinaria = Megalaria laureri (Hepp ex Th.Fr.) Hafellner

laureri (Hepp) Anzi, Lecidea = Lecidella laureri (Hepp) Körb.

laureri (Hepp) Körb., Lecidella

laureri (Hepp ex Th.Fr.) Hafellner, Megalaria

laureri (Flot.) Nyl., Thelocarpon

lauricassiae auct. scand., Buellia = Tetramelas geophilus (Flörke ex Sommerf.) Norman

lauricassiae auct. scand., Buellia = Buellia disciformis (Fr.) Mudd

lauricassiae (Fée) Müll.Arg., Buellia

laurocerasi (Delise ex Duby) Zahlbr., Bacidia

lavatum (Fr.) Hazsl., Rhizocarpon

laxa H.Magn., Rinodina

laxiuscula auct., *Cladonia* = *Cladonia portentosa* (Dufour) Coem.

laxula* (H.Magn.) Brodo, *Aspicilia

laxula H.Magn., *Lecanora* = *Aspicilia laxula* (H. Magn.) Brodo

laxula Nyl., *Lecidea* = *Brianaria lutulata* (Nyl.) S. Ekman & M.Svensson

lecanodes Ces., *Nectria* = *Nectriopsis lecanodes* (Ces.) Diederich & Schroers

lecanodes* (Ces.) Diederich & Schroers, *Nectriopsis

lecanoracearum (Vouaux) Petr. & Sydow., *Lichenocodium* = *Lichenocodium usneae* (Anzi) D. Hawksw.

lecanorae (Vouaux) Keissl., *Ascochyta* = *Lichenodiplis lecanorae* (Vouaux) Dyko & D. Hawksw.

lecanorae Jaap, *Coniosporium* = *Lichenocodium lecanorae* (Jaap) D.Hawksw.

lecanorae Vouaux, *Diplodina* = *Lichenodiplis lecanorae* (Vouaux) Dyko & D.Hawksw.

lecanorae* (Jaap) D.Hawksw., *Lichenocodium

lecanorae* (Vouaux) Dyko & D.Hawksw., *Lichenodiplis

lecanorae* Diederich & Etayo, *Skyttea

lecanorae Stein, *Thrombium* = *Zwackhiomyces lecanorae* (Stein) Nik. Hoffm. & Hafellner

lecanorae* (Stein) Nik. Hoffm. & Hafellner, *Zwackhiomyces

lecanoricola* (Alstrup et al.) Rambold & Triebel, *Lecanora

lecanoricola Alstrup et al., *Lecidella* = *Lecanora lecanoricola* (Alstrup et al.) Rambold & Triebel

lecanorina* (Almq.) R.Sant., *Arthonia

lecanorina* Diederich, *Phoma

lecanorina* (A.Massal.) A.Massal., *Rinodina

lecanorinum* Anders, *Rhizocarpon

lecanorinum var. *pseudolecanorinum* Räsänen, *Rhizocarpon* = *Rhizocarpon macrosporum* Räsänen

lecideina (H.Mayrhofer & Poelt) Scheid. & H. Mayrhofer, *Amandinea* = *Amandinea pelidna* (Ach.) Fryday & L.Arcadia

lecideina H.Mayrhofer & Poelt, *Rinodina* = *Amandinea pelidna* (Ach.) Fryday & L.Arcadia

lecidellae* Triebel et al., *Stigmatidium

lecideoidea* Hue, *Aspicilia

lecideoidea (Hue) Zahlbr., *Lecanora* = *Aspicilia lecideoidea* Hue

lecideoidea (Nyl.) Kernst., *Rinodina* = *Rinodina archaea* (Ach.) Arnold

lecideopsis auct., *Gyalecta* = *Gyalidea fritzei* (Stein) Vězda

lecideopsis var. *fritzei* (Stein) Vězda, *Gyalecta* = *Gyalidea fritzei* (Stein) Vězda

lecideopsis* (A.Massal.) Lettau, *Gyalidea

lecidomae* Zhurb. & Triebel, *Cercidospora

lectissima* (Fr.) Zahlbr., *Porina

lectissima var. *terrestris* Nyl., *Porina* = *Porina glaucocinerea* (Nyl.) Vain.

leightonii Hepp., *Verrucaria* = *Verrucaria margacea* (Wahlenb.) Wahlenb.

leiocarpa (DC.) Gyeln., *Agyrophora* = *Umbilicaria leiocarpa* DC.

leiocarpa (DC.) Th.Fr., *Gyrophora* = *Umbilicaria leiocarpa* DC.

leiocarpa* DC., *Umbilicaria

leiocarpa sensu Lynge, *Umbilicaria* = *Umbilicaria rigida* (Du Rietz) Frey

leioplaca* DC., *Pertusaria

leioplaca var. *laevigata* Th.Fr., *Pertusaria* = *Pertusaria alpina* Hepp ex Ahles

leioplaca Ach., *Porina* = *Pertusaria leioplaca* DC.

leiopoga Motyka, *Usnea* = *Usnea dasopoga* (Ach.) Nyl.

leioterella Erichsen, *Pertusaria* = *Pertusaria pertusa* (Weigel) Tuck. var. *leiotera* (Nyl.) Zahlbr.

leiphaemum (Ach.) Zopf, Haematomma =
Haematomma ochroleucum (Neck.) J.R.Laundon
var. ochroleucum

lenticella (Arnold) Stizenb., Lecidea

lenticulare Ach., Calicium

lenticulare sensu Nád., Calicium = Calicium
adpersum Pers.

lenticularis (Ach.) Th.Fr., Catillaria

lenticularis var. erubescens (Flot.) Th.Fr. non v.
vulgaris (Körb.) Th.Fr., Catillaria = Catillaria
lenticularis (Ach.) Th.Fr.

lenticularis var. vulgaris (Körb.) Th.Fr., Catillaria =
Catillaria chalybeia (Borrer) A.Massal.

lenticularis (Ach.) M.Choisy, Microlecia = Catillaria
lenticularis (Ach.) Th.Fr.

lentigera (Weber) Ach., Lecanora = Squamarina
lentigera (Weber) Poelt

lentigera (Weber) Poelt, Squamarina

lentiginosula (Nyl.) A.L.Smith, Melaspilea

leopoldii Diederich & Scheid., Reichlingia

lepadina Sommerf., Lecidea = Lecidea confluens
(Weber) Ach.

lepadinum (Ach.) Ach., Thelotrema

lepidiota (H.Olivier) R.Sant., Arthonia

lepidiota (Sommerf.) Th.Fr., Pannaria =
Fuscopannaria praetermissa (Nyl.) P.M.Jørg.

lepidiota (Sommerf.) Vain., Parmeliella =
Fuscopannaria praetermissa (Nyl.) P.M.Jørg.

lepidiotae (Anzi) Vain., Sphaerulina = Lichenochora
lepidotae (Anzi) Etayo & Nav.-Ros.

lepidophilus Anzi, Abrothallus = Bachmanniomyces
punctum (A.Massal.) Diederich & Pino-Bodas

lepidophora (Nyl. ex Vain.) Bitter, Peltigera

lepidota var. gracilescens auct., Cladonia = Cladonia
uliginosa (Ahti) Ahti

lepidota var. stricta (Nyl.) Du Rietz, Cladonia =
Cladonia stricta (Nyl.) Nyl.

lepidotae (Anzi) Etayo & Nav.-Ros., Lichenochora

leprariae Zhurb., Stigmatium

leprarioides Tønsberg, Lecidea

leprarioides auct., Pertusaria = Ochrolechia
microstictoides Räsänen

leprarioides auct., Pertusaria = Ochrolechia turneri
(Sm.) Hasselrot

leprarioides Erichsen, Pertusaria = Lepra albescens
(Huds.) Hafellner

leprodea Nyl., Lecidea = Lecidea nylanderi (Anzi)
Th.Fr.

leproloma R.Sant., Lecidea = Protoparmelia
leproloma (R.Sant.) Rambold & Poelt

**leproloma (R.Sant.) Rambold & Poelt,
Protoparmelia**

leprosa Räsänen, Catillaria = Cliostomum leprosum
(Räsänen) Holien & Tønsberg

leprosa Coppins & Purvis, Psilolechia

leprosa (P.James) Vězda, Vezdaea

leproscens (Sandst.) Hav., Aspicilia = Circinaria
leproscens (Sandst.) A.Nordin et al.

leproscens (Sandst.) A.Nordin et al., Circinaria

leproscens Sandst., Lecanora = Circinaria
leproscens (Sandst.) A.Nordin et al.

leprosula (Th.Fr.) Lettau, Bacidia = Micarea

leprosula (Th.Fr.) Coppins & A.Fletcher

leprosula (Th.Fr.) Coppins & A.Fletcher, Micarea

leprosula (Arnold) Printzen et al., Myochroidea

**leprosum (Räsänen) Holien & Tønsberg,
Cliostomum**

leprothelia Nyl., Lecanora = Pertusaria geminipara
(Th.Fr.) C.Knight ex Brodo

leptacina Sommerf., Lecanora

leptacinella Nyl., Lecanora

leptalea (Ach.) DC., Physcia

leptalea (Durieu & Mont.) A.L.Sm., Porina

leptalea (Durieu & Mont.) R.C.Harris, Segestria =
Porina leptalea (Durieu & Mont.) A.L.Sm.

leptaleae (J.Steiner) R.Sant., Nectriella = Pronectria
leptaleae (J.Steiner) Lowen

leptaleae (J.Steiner) Lowen, Pronectria

leptaleae (J.Steiner) Rossman & Lowen,
Xenonectriella = Pronectria leptaleae (J.Steiner)
Lowen

leptaleoides (Nyl.) Vain., Porina = Porina lectissima
(Fr.) Zahlbr.

leptaleum Tuck., Collema

leptoboloides Nyl., Lecidea = Lecidea laboriosa
Müll.Arg.

leptocheila H.Magn., Caloplaca

leptocline (Flot.) Körb., Buellia

leptoderma auct., Peltigera = Peltigera didactyla
(With.) J.R.Laundon

leptogica (Nyl.) Zopf, Scutula

leptogioides auct., Collema = Scytinium parvum
(Degel.) Otálora et al.

leptogiophila Minks ex G.Winter, Leptorhaphis =
Myxophora leptogiophila (Minks ex G.Winter) Nik.
Hoffmann & Hafellner

leptogiophila (Minks ex G.Winter) G.Winter,
Leptosphaeria = Myxophora leptogiophila (Minks ex
G.Winter) Nik.Hoffmann & Hafellner

leptogiophila (Minks ex G.Winter) Berl. & Vogl.,
Metasphaeria = Myxophora leptogiophila (Minks ex
G.Winter) Nik.Hoffmann & Hafellner

**leptogiophila (Minks ex G.Winter) Nik.Hoffmann
& Hafellner, Myxophora**

leptogiophila (Minks ex G.Winter) Vouaux,
Physalospora = Myxophora leptogiophila (Minks ex
G.Winter) Nik.Hoffmann & Hafellner

leptolepideum (Nyl.) Nyl., Endocarpon

leptolepis Anzi, Rhizocarpon

leptophylla (Ach.) Flörke, Cladonia = Cladonia
peziziformis (With.) J.R.Laundon

leptophyllodes (Nyl.) Zahlbr., Dermatocarpon

**leptophyllum (Ach.) K.G.W.Lång,
Dermatocarpon**

leptospora Nitschke ex J.Lahm, Pertusaria = Lepra
multipuncta (Turner) Hafellner

leptotera (Nyl.) Arnold, Arthopyrenia = Stigmidium
marinum (Deakin) Swinscow

leptotera auct., Arthopyrenia = Collemopsidium
halodytes (Nyl.) Grube & B.D.Ryan

leptoterum (Nyl.) Hellbom, Thelidium = Stigmidium
marinum (Deakin) Swinscow

leptyrodes (Nyl.) G.B.F.Nilsson, Lecanora

lesdainii Harm. ex A.L.Sm., Acarospora =
Myriospora smaragdula (Wahlenb. ex Ach.) Nägeli
ex Uloth

lesdainii var. subochracea H.Magn., Acarospora =
Myriospora tangerina (M. Westb. & Wedin) K.
Knudsen & L.Arcadia

lesdainii (Hue) Canals et al., Botryolepraria

**lesdainii (Vouaux) Etayo & Diederich,
Echinodiscus**

lesdainii (Hue) R.C.Harris, Lepraria = Botryolepraria
lesdainii (Hue) Canals et al.

lesdainii Vouaux, Nesolechia = Unguiculariopsis
lesdainii (Vouaux) Etayo & Diederich

lesdainii Vouaux, Phacopsis = Echinodiscus lesdainii
(Vouaux) Etayo & Diederich

lesdainii (Vouaux) W.Y. Zhuang & Korf, Skyttea =
Unguiculariopsis lesdainii (Vouaux) Etayo &
Diederich

**lesdainii (Vouaux) Etayo & Diederich,
Unguiculariopsis**

lettaui Grumann, Pyrenopeziza = Unguiculariopsis
lettaui (Grumann) Coppins

lettaui (Grumann) D.Hawksw., Skyttea =
Unguiculariopsis lettaui (Grumann) Coppins

lettaui (Grumann) Coppins, Unguiculariopsis

leuckertii Diederich & P.Scholz, Sclerococcum

leucocephala (Ach.) Fr., Pyrenothea = Lecanactis
abietina (Ach.) Körb.

leucococca R.Sant., Hypocenomyce = Toensbergia
leucococca (R.Sant.) Bendiksby & Tindal

leucococca Sommerf., Lecanora

leucococca (R.Sant.) R.Sant., Pycnora = Toensbergia
leucococca (R.Sant.) Bendiksby & Tindal

**leucococca (R.Sant.) Bendiksbj & Timdal,
Toensbergia**

leucodontis (Poelt & Döbbeler) Coppins, Arthonia =
Bryostigma lapidicola (Taylor) S.Y.Kondr. & J.-S.
Hur

leucodontis Poelt & Döbbeler, Bryostigma =
Bryostigma lapidicola (Taylor) S.Y.Kondr. & J.-S.
Hur

leucoleiptes (Tuck.) Lettau, Physcia = Physconia
detersa (Nyl.) Poelt

leucolepis (Wahlenb.) Nyl., Pannaria = Pannaria
hookeri (Borrer ex Sm.) Nyl.

leucoleprosum Vain., Placodium = Ramboldia
cinnabarina (Sommerf.) Kalb et al.

leucomelaena (Vain.) Vain., Lecidea = Calvitimela
melaleuca (Sommerf.) M.P.Andreev

leucopellaea (Ach.) Almq., Arthonia = Felipes
leucopellaeus (Ach.) Frisch & G.Thor

leucopellaeus (Ach.) Frisch & G.Thor, Felipes

leucophaea Flörke ex Rambold, Biatora =
Miriquidica leucophaea (Flörke ex Rabenh.) Hertel
& Rambold

leucophaea (Abbayes) Mong., Cladina = Cladonia
ciliata Stirt.

leucophaea des Abb., Cladonia = Cladonia ciliata
Stirt.

leucophaea (Vahl) P.M.Jørg., Fuscopannaria =
Vahliella leucophaea (Vahl) P.M.Jørg.

leucophaea (Flörke ex Rabenh.) Nyl., Lecidea =
Miriquidica leucophaea (Flörke ex Rabenh.) Hertel
& Rambold

leucophaea var. griseoatra (Flot.) Th.Fr., Lecidea =
Miriquidica griseoatra (Flot.) Hertel & Rambold

**leucophaea (Flörke ex Rabenh.) Hertel &
Rambold, Miriquidica**

leucophaea var. griseoatra (Flot.) Wirth, Miriquidica
= Miriquidica subplumbea (Anzi) Cl.Roux

leucophaea (Vahl) P.M.Jørg., Pannaria = Vahliella
leucophaea (Vahl) P.M.Jørg.

leucophaea (Vahl) P.M.Jørg., Vahliella

leucophaeoides Nyl., Lecidea = Miriquidica
leucophaeoides (Nyl.) Hertel & M.P.Andreev

**leucophaeoides (Nyl.) Hertel & M.P.Andreev,
Miriquidica**

**leucophaeopsis (Nyl.) P.James & Purvis,
Stereocaulon**

leucophaeopsis (Nyl.) Th.Fr., Toninia = Stereocaulon
leucophaeopsis (Nyl.) P.James & Purvis

leucophaeopsis f. farinacea Hav., Toninia =
Stereocaulon tornense (H.Magn.) P.James & Purvis

leucophaeotera (Nyl.) Zahlbr., Catillaria

leucophaeotera var. serpentinicola Räsänen,
Catillaria = Catillaria leucophaeotera (Nyl.) Zahlbr.

leucophaeotera Nyl., Lecidea = Catillaria
leucophaeotera (Nyl.) Zahlbr.

leucophlebia (Nyl.) Räsänen, Peltidea = Peltigera
leucophlebia (Nyl.) Gyeln.

leucophlebia (Nyl.) Gyeln., Peltigera

leucophlebiae Cl.Roux & Triebel, Stigidium

leucophylla (Gill.) M.Lange & Siverts, Fayodia =
Arrhenia peltigerina (Peck) Redhead et al.

leucophyma (Leight.) Hue, Aspicilia = Koerberiella
wimmeriana (Körb.) Stein

leucophyma Leight., Lecanora = Koerberiella
wimmeriana (Körb.) Stein

leucoplaca auct., Catillaria = Megalaria grossa (Pers.
ex Nyl.) Hafellner

leucoplaca (Wallr.) R.C.Harris, Eopyrenula

leucoplaca (Wallr.) Vain., Leptosphaeria =
Eopyrenula leucoplaca (Wallr.) R.C.Harris

leucoplaca (Wallr.) Körb., Pyrenula = Eopyrenula
leucoplaca (Wallr.) R.C.Harris

leucopoda Nyl., Sphinctrina

leucopoda Holien & Tønsberg, Szczawinskia

leucopus Vain., Strongyloopsis = Microcalicium
disseminatum (Ach.) Vain.

leucopus var. pallidior Vain., Strongyloopsis =
Microcalicium disseminatum (Ach.) Vain.

leucoraea (Ach.) Th.Fr., Blastenia = Bryoplaca
sinapisperma (Lam. & DC.) Søchting et al.

leucoraea (Ach.) Branth, Caloplaca = Bryoplaca
sinapisperma (Lam. & DC.) Søchting et al.

leucosora auct., Pertusaria = Lepra aspergilla (Ach.)
Hafellner

**leucospila (Anzi) H.Kiliass & Scheid.,
Cephalophysia**

leucospilodes (Nyl.) H.Olivier, Caloplaca

leucospilodes Nyl., Lecanora = Caloplaca
leucospilodes (Nyl.) H.Olivier

leucosticta Vain., Usnea = Usnea barbata (L.) Weber
ex F.H.Wigg.

leucostictoides Räsänen, Usnea = Usnea barbata (L.)
Weber ex F.H.Wigg.

leucostoma H.Magn., Lecanora = Aspicilia
supertegens Arnold

leucostoma A.Massal., Pertusaria = Pertusaria
leioplaca DC.

leucostoma var. interrupta Erichsen, Pertusaria =
Pertusaria leioplaca DC.

leucostoma var. pentaspora Almb., Pertusaria =
Pertusaria leioplaca DC.

leucostoma Bernh., Sphaeria = Pertusaria leioplaca
DC.

leucothallina Arnold, Lecidea

leucothallina var. discrepans Rambold & Hertel,
Lecidea = Lecidea leucothallina Arnold

leucothallina var. kujalae (Räsänen) Hertel, Lecidea
= Lecidea leucothallina Arnold

leucothelia (Nyl.) Arnold, Microglæna =
Protothelenella leucothelia (Nyl.) H.Mayrhofer &
Poelt

**leucothelia (Nyl.) H.Mayrhofer & Poelt,
Protothelenella**

leucothelioides (Vain.) Zahlbr., Microglæna =
Thelenella muscorum (Fr.) Vain. var. muscorum

libifera Savicz, Cladonia

lichenicola Ihlen & Tønberg, Acarosporium

lichenicola Fuckel, Ahlesia = Thelocarpon
lichenicola (Fuckel) Poelt & Hafellner.

lichenicola De Not., Bertia = Rhagadostoma
lichenicola (De Not.) Keissl.

lichenicola (Zopf) Hafellner, Cercidospora =
Cercidospora punctillata (Nyl.) R.Sant.

lichenicola Alstrup et al., Chionosphaera =
Crittendenia lichenicola (Alstrup et al.) Diederich et
al.

lichenicola P. Karst., Coniothyrium =
Lichenocodium lichenicola (P.Karst.) Petr. & Syd.

lichenicola D.Hawksw. & B.Sutton, Cornutispora

**lichenicola (Alstrup et al.) Diederich et al.,
Crittendenia**

**lichenicola (M.S.Christ. & D.Hawksw.) D.
Hawksw. & M.S.Cole, Intralichen**

lichenicola Thorn et al., Leucogyrophana

**lichenicola (P.Karst.) Petr. & Syd.,
Lichenocodium**

lichenicola Dyko & D.Hawksw., Lichenodiplis

lichenicola (Zopf) Vouaux, Metasphaeria =
Cercidospora punctillata (Nyl.) R.Sant.

**lichenicola (Sommerf.:Fr.) D.Hawksw.,
Muellerella**

lichenicola Petr., Pleurosticta = Pleurosticta
acetabulum (Neck.) Elix & Lumbsch

lichenicola (De Not.) Keissl., Rhagadostoma

lichenicola Svendsen, Sclerotium = Athelia
arachnoidea (Berk.) Jülich

lichenicola (Linds.) Vouaux, Spilomium =
Sclerococcum sphaerale (Ach.) Fr.

lichenicola Mont. & Fr., Stictis = Diploschistes
muscorum (Scop.) R.Sant.

**lichenicola (Fuckel) Poelt & Hafellner.,
Thelocarpon**

lichenicola (Sommerf.:Fr.) R.Sant., Tichothecium =
Muellerella lichenicola (Sommerf.:Fr.) D.Hawksw.

lichenicola Diederich, Tremella

lichenicola M.S.Christ. & D.Hawksw. in
Hawksworth, Trimmatostroma = Intralichen
lichenicola (M.S.Christ. & D.Hawksw.) D.Hawksw.
& M.S.Cole

lichenicola (Linds.) Petr. & Sydow, Vouauxiella

lichenis Huhtinen & R.Sant., Polydesmia

lichenoides (L.) Schum., Calicium = Calicium
salicinum Pers.

lichenoides (L.) Zahlbr., Leptogium = Scytinium

lichenoides (L.) Otálora et al.

lichenoides Pers., Opegrapha = Alyxoria varia (Pers.)
Ertz & Tehler

lichenoides (L.) Otálora et al., Scytinium

lichenoides L., Tremella = Scytinium lichenoides
(L.) Otálora et al.

lichenum Diederich, Bispora = Intralichen lichenum
(Diederich) D.Hawksw. & M.S.Cole

lichenum (Sommerf.) J.Schröt., Celidium =
Plectocarpon lichenum (Sommerf.) D.Hawksw.

lichenum Sommerf., Dothidea = Plectocarpon
lichenum (Sommerf.) D.Hawksw.

lichenum Sommerf., Dothidea = Diploschistes
muscorum (Scop.) R.Sant.

**lichenum (Diederich) D.Hawksw. & M.S.Cole,
Intralichen**

lichenum (Sommerf.) R.Sant., Lichenomyces =
Plectocarpon lichenum (Sommerf.) D.Hawksw.

lichenum (Sommerf.) D.Hawksw., Plectocarpon

lichenum P.Karst. & Har., Trichosphaeria

lightfootii (Sm.) H.Olivier, Catillaria = Fuscidea

lightfootii (Sm.) Coppins & P.James

lightfootii (Sm.) Coppins & P.James, Fuscidea

lignaria (Ach.) Lettau, Bacidia = Micarea lignaria
(Ach.) Hedl. var. lignaria

lignaria (Ach.) Arnold, Bilimbia = Micarea lignaria
(Ach.) Hedl. var. lignaria

lignaria (Ach.) A.Massal., Bilimbia = Micarea
lignaria (Ach.) Hedl.

lignaria (Körb.) Nyl., Lecidea = Lecidea betulicola
(Kullh.) H.Magn.

lignaria (Ach.) Hedl., Micarea

**lignaria (Ach.) Hedl. var. endoleuca (Leight.)
Coppins, Micarea**

lignaria (Ach.) Hedl. var. lignaria, Micarea

lignaria H.Magn., Rinodina = Rinodina trevisanii
(Hepp) Körb.

ligni-mollis T.Sprib. & Prinzen, Biatora

ligniaria Hellb., Arthonia

ligniariella Coppins, Arthonia

lignicola Vězda & Pišút, Absconditella

lignicola Nádvy., Calicium = Chaenothecopsis pusiola
(Ach.) Vain.

lignicola (Nádvy.) A.F.W. Schmidt, Chaenothecopsis
= Chaenothecopsis pusiola (Ach.) Vain.

lignicola Zschacke, Verrucaria

lignyota (Wahlenb.) Forssell, Psorotichia =
Thelignya lignyota (Wahlenb.) P.M.Jørg. & Henssen

**lignyota (Wahlenb.) P.M.Jørg. & Henssen,
Thelignya**

lignyota Wahlenb., Verrucaria = Thelignya lignyota
(Wahlenb.) P.M.Jørg. & Henssen

lilacina Poelt & Vězda, Protoblastenia

liljenstroemii Du Rietz, Lecidea = Miriquidica
nigroleprosa (Vain.) Hertel & Rambold var.

liljenstroemii (Du Rietz) Owe-Larss. & Rambold

limbata (Sm.) Ach., Sticta

limborina (Nyl.) Lamy, Lecidea = Rimularia
limborina Nyl.

limborina Nyl., Rimularia

limitata auct., Lecidea = Lecidella elaeochroma
(Ach.) M.Choisy

limitata Kremp., Verrucaria = Parabagliettoa cyanea
(A.Massal.) Gueidan & Cl.Roux

limitatum (Kremp.) Servít, Thelidium =
Parabagliettoa cyanea (A.Massal.) Gueidan & Cl.
Roux

limonia Nimis & Poelt, Caloplaca = Flavoplaca

limonia (Nimis & Poelt) Arup et al.

limonia (Nimis & Poelt) Arup et al., Flavoplaca

limosa Ach., Lecidea = Protomicarea limosa (Ach.) Hafellner

limosa (Ach.) Hafellner, Protomicarea

limosum (Ach.) Ach., Collema = Enchylium

limosum (Ach.) Otálora et al.

limosum (Ach.) Otálora et al., Enchylium

lindsayanum Räsänen, Rhizocarpon = Rhizocarpon geographicum (L.) DC. subsp. lindsayanum (Räsänen) Ahti

lindsayanum subsp. kittilense (Räsänen) Runemark, Rhizocarpon = Rhizocarpon geographicum (L.) DC. subsp. kittilense (Räsänen) Ahti

lineare (Leight.) R.C.Harris., Trichothelium = Pseudosagedia linearis (Leight.) Hafellner & Kalb

linearis (Leight.) Zahlbr., Porina = Pseudosagedia

linearis (Leight.) Hafellner & Kalb

linearis (Leight.) Hafellner & Kalb, Pseudosagedia

linita (Ach.) Rabenh., Lobaria

linitae R.Sant., Arthonia = Plectocarpon linitae (R. Sant.) Wedin & Hafellner

linitae (R.Sant.) Wedin & Hafellner, Plectocarpon

linkolae Räsänen, Dermatocarpon

lirellans Almq., Arthonia

lirellans (Almq.) Coppins, Arthothelium = Arthonia

lirellans Almq.

lismorensis (Cromb.) Vain., Placynthium

lithina sensu Zahlbr., Staurothele = Staurothele fissa (Taylor) Zwackh

lithinella Nyl., Lecidea = Micarea lithinella (Nyl.) Hedl.

lithinella (Nyl.) Hedl., Micarea

lithophila H.Magn., Caloplaca = Athallia vitellinula (Nyl.) Arup et al.

lithophila auct., Caloplaca = Athallia holocarpa (Hoffm.) Arup et al.

lithophila (Ach.) Ach., Lecidea

lithophiloides Müll.Arg., Lecidea = Lecidea swartzioidea Nyl.

lithophiloides Nyl., Lecidea = Lecidea laboriosa Müll.Arg.

lithospersa Zahlbr., Lecidea = Farnoldia hypocrita (A.Massal.) Fröberg

lithotea sensu Räsänen, Physcia = Phaeophyscia endococcina (Körb.) Moberg

lithotea f. perisidiosa Räsänen, Physcia = Physconia perisidiosa (Erichsen) Moberg

lithotodes Nyl., Physcia = Phaeophyscia endococcina (Körb.) Moberg

lithyrga, Lecidea = Farnoldia hypocrita (A.Massal.) Fröberg

lithyrga Ach., Opegrapha

lithyrgodes Nyl., Opegrapha = Opegrapha vulgata (Ach.) Ach.

litorale H.Magn., Dermatocarpon

litorale auct., Thelidium = Collemopsidium sublitorale (Leight.) Grube & B.D.Ryan

litoralis auct., Arthopyrenia = Collemopsidium sublitorale (Leight.) Grube & B.D.Ryan

litoralis Hakul., Candelariella = Candelariella aurella (Hoffm.) Zahlbr.

litorea (H.Magn.) Räsänen, Aspicilia = Sagedia zonata Ach.

litorea H.Magn., Lecanora = Sagedia zonata Ach.

litorea (Hepp) Zschacke, Verrucaria = Verrucaria latebrosa Körb.

littoralis (Vain.) Hue, Aspicilia = Koerberiella wimmeriana (Körb.) Stein

littoralis Vain., Pertusaria = Koerberiella wimmeriana (Körb.) Stein

livida (Hepp) Jatta, Caloplaca

livida Haugan & Timdal, Calvitimela

lividella Nyl., Lecanora

lobariacearum Diederich & M.S.Christ, Tremella

lobariae (Diederich & Etayo) Diederich & Ertz, Abrothallus

lobariae Etayo, Chalara

lobariae Etayo & Diederich, Niesslia

lobariae Diederich & Etayo, Phoma = Abrothallus
lobariae (Diederich & Etayo) Diederich & Ertz

lobariella (Nyl.) Hafellner, Dactylospora =
Sclerococcum lobariellum (Nyl.) Ertz & Diederich

**lobariellum (Nyl.) Ertz & Diederich,
Sclerococcum**

lobariellus (Nyl.) Zopf, Abrothallus = Sclerococcum
lobariellum (Nyl.) Ertz & Diederich

**lobariicola (Alstrup) Coppins & Aptroot,
Catillaria**

lobariicola Alstrup, Phoma = Catillaria lobariicola
(Alstrup) Coppins & Aptroot

lobariicola Alstrup, Scutula = Catillaria lobariicola
(Alstrup) Coppins & Aptroot

lobificans Nyl., Lepraria

lobificans auct., Lepraria = Lepraria finkii (B.de
Lesd.) R.C.Harris

**lobulata (Sommerf.) Hafellner & Coppins,
Bilimbia**

lobulata (Flörke) Arup et al., Calogaya

lobulata (Flörke) Hellb., Caloplaca = Calogaya
lobulata (Flörke) Arup et al.

lobulata auct., Caloplaca = Flavoplaca marina
(Wedd.) Arup et al.

lobulata Sommerf., Lecidea = Bilimbia lobulata
(Sommerf.) Hafellner & Coppins

lobulata (Sommerf.) Hafellner, Mycobilimbia =
Bilimbia lobulata (Sommerf.) Hafellner & Coppins

lobulata (Sommerf.) Hafellner in Hafellner & Türk,
Myxobilimbia = Bilimbia lobulata (Sommerf.)
Hafellner & Coppins

lobulata (Sommerf.) Lyngé, Toninia = Bilimbia
lobulata (Sommerf.) Hafellner & Coppins

lobulata (Flörke) B.de Lesd., Xanthoria = Calogaya
lobulata (Flörke) Arup et al.

lojkaeana Szatala, Lecanora

lomnitzensis Stein, Arthopyrenia = Sagediopsis
lomnitzensis (Stein) Orange

lomnitzensis (Stein) Orange, Sagediopsis

longiconida H.Magn., Verrucaria = Verrucaria
arctica Lyngé

longiconidia H.Magn., Lecidea = Biatora albohyalina
(Nyl.) Bagl. & Carestia

longissima Ach., Usnea

lopadii Anzi, Celidium = Merismatium nigritlellum
(Nyl.) Vouaux

lopadii auct., Celidium = Sclerococcum deminutum
(Th.Fr.) Ertz & Diederich

lopadii (Anzi) Zopf, Merismatium = Merismatium
nigritlellum (Nyl.) Vouaux

lopadii (Anzi) H.Olivier, Polyblastia = Merismatium
nigritlellum (Nyl.) Vouaux

lopadiioides (Th.Fr.) Grummann, Lecidea = Ainoa
mooreana (Carroll) Lumbsch & I.Schmitt

lowiana Gowan, Porpidia

loxodes (Nyl.) Essl., Neofuscelia = Xanthoparmelia
loxodes (Nyl.) O.Blanco et al.

loxodes Nyl., Parmelia = Xanthoparmelia loxodes
(Nyl.) O.Blanco et al.

loxodes var. verruculifera (Nyl.) Clauzade & Cl.
Roux, Parmelia = Xanthoparmelia verruculifera
(Nyl.) O.Blanco et al.

loxodes (Nyl.) O.Blanco et al., Xanthoparmelia

lucida (Ach.) Ach., Lecidea = Psilolechia lucida
(Ach.) M.Choisy

lucida Körb., Leptorhaphis

lucida (Ach.) M.Choisy, Psilolechia

lucidum Th.Fr., Acolium = Calicium lucidum (Th.
Fr.) M.Prieto & Wedin

lucidum (Th.Fr.) M.Prieto & Wedin, Calicium

lucidum (Th.Fr.) Th.Fr., Cyphelium = Calicium
lucidum (Th.Fr.) M.Prieto & Wedin

lucidum var. karelicum Vain., Cyphelium = Acolium
karelicum (Vain.) M.Prieto & Wedin

lucifuga G.Thor, Caloplaca

ludificans H.Magn., Lecidea

ludwigii (Spreng.) Ach., Lecanora = Lecanora
frustulosa (Dicks.) Ach.

- lugubris (Sommerf.) Zahlbr., Bacidia = Ropalospora
lugubris (Sommerf.) Poelt
- lugubris (Sommerf.) Th.Fr., Bilimbia = Ropalospora
lugubris (Sommerf.) Poelt
- lugubris (Sommerf.) P.James & Purvis, Fuscidea =
Ropalospora lugubris (Sommerf.) Poelt
- lugubris Sommerf., Lecidea = Ropalospora lugubris
(Sommerf.) Poelt
- lugubris (A.Massal.) Arnold, Psorotichia**
- lugubris (Sommerf.) Poelt, Ropalospora**
- lugubris (Sommerf.) Th.Fr., Toninia = Ropalospora
lugubris (Sommerf.) Poelt
- luhankaensis Vain., Lecidella = Lecidella scabra
(Taylor) Hertel & Leuckert
- lulensis Hellb., Lecidea = Miriquidica lulensis
(Hellb.) Hertel & Rambold
- lulensis (Hellb.) Hertel & Rambold, Miriquidica**
- lundensis (Fr.) Uloth, Aspicilia = Circinaria calcarea
(L) A.Nordin et al.
- lundensis (Fr.) Zahlbr., Lecanora = Circinaria
calcarea (L) A.Nordin et al.
- lurida Ach., Arthonia = Diarthonis spadicea (Leight.)
Frisch et al.
- lurida auct., Arthonia = Arthonia vinosa Leight.
- lurida var. spadicea (Leight.) Nyl., Arthonia =
Diarthonis spadicea (Leight.) Frisch et al.
- lurida Ach., Lecidea = Romjularia lurida (Ach)
Timdal
- lurida (Ach.) Hafellner & Türk, Mycobilimbia =
Romjularia lurida (Ach) Timdal
- lurida (Ach.) DC., Psora = Romjularia lurida (Ach)
Timdal
- lurida (Ach) Timdal, Romjularia**
- lurida (Arnold) H.Olivier, Toninia = Thalloidima
physaroides (Opiz) Kistenich et al.
- luridata (Körb.) et al., Rinodina**
- luridescens (Anzi) Arnold, Rinodina**
- luridoglaucella Vain., Bacidia = Bacidina inundata
(Fr.) Vězda
- luridum (With.) J.R.Laundon, Dermatocarpon**
- lusitanicum Schaer., Nephroma = Nephroma
laevigatum Ach.
- lusitanicum H.Magn., Stereocaulon = Stereocaulon
evolutum Graewe
- lutea (Dicks.) Trevis., Dimerella = Coenogonium
luteum (Dicks.) Kalb & Lücking
- lutea (Dicks.) Zahlbr., Microphiale = Coenogonium
luteum (Dicks.) Kalb & Lücking
- lutella (Vain.) Räsänen, Candelariella**
- luteoalba (Turner) Th.Fr., Caloplaca = Cerothallia
luteoalba (Turner) Arup et al.
- luteoalba (Turner) Lettau, Candelariella = Cerothallia
luteoalba (Turner) Arup et al.
- luteoalba (Turner) Arup et al., Cerothallia**
- luteoalba Wheldon & A.Wilson, Cladonia**
- luteoalba (Turner) Ach., Lecidea = Cerothallia
luteoalba (Turner) Arup et al.
- luteoatra (Nyl.) Räsänen, Biatora = Lecanora
viridiatra (Stenh.) Nyl.
- luteoatra Nyl., Lecidea = Lecanora viridiatra (Stenh.)
Nyl.
- luteola (Ach.) Mudd, Bacidia = Bacidia rubella
(Hoffm.) A.Massal.
- luteola Vězda, Ramonia**
- luteoilacina (A.Favre) D.M. Hend., Omphalina =
Lichenomphalia hudsoniana (H.S.Jenn.) Redhead et
al.
- luteovitellina Pilát & Nannf., Omphalia =
Lichenomphalia alpina (Britzelm.) Redhead et al.
- luteovitellina (Pilát & Nannf.) M.Lange, Omphalina
= Lichenomphalia alpina (Britzelm.) Redhead et al.
- lutescens Rehm., Nectria = Xenonectriella lutescens
(Rehm) Weese
- lutescens (Hoffm.) Lamy, Pertusaria = Pertusaria
flavida (DC.) J.R.Laundon
- lutescens (Rehm) Weese, Xenonectriella**
- luteum (Dicks.) Kalb & Lücking, Coenogonium**
- lutosa (Ach.) Nyl., Heppia**

- lutosum A.Massal., Diplotomma**
- lutulata (Nyl.) S.Ekman & M.Svensson, Brianaria**
- lutulata (Nyl.) Coppins, Micarea = Brianaria lutulata (Nyl.) S.Ekman & M.Svensson
- lychnea (Ach.) Th.Fr., Xanthoria = Polycauliona candelaria (L.) Frödén et al.
- lyckselensis H.Magn., Lecanora = Sagedia mastrucata (Wahlenb.) A.Nordin et al.
- lygaea (W.Mann) V.Wirth & Vězda, Fuscidea**
- lygaea Ach., Lecidea = Fuscidea lygaea (W.Mann) V.Wirth & Vězda
- lygaea sensu Malme, H.Magn. (p.p.) etc., Lecidea = Fuscidea tenebrica (Nyl.) V.Wirth & Vězda
- lygaeaoplaça Vain., Lecidea = Fuscidea tenebrica (Nyl.) V.Wirth & Vězda
- lygaeiza Vain., Lecidea = Schaereria fuscocinerea (Nyl.) Clauzade & Cl.Roux
- lygea W.Mann., Biatora = Fuscidea lygaea (W.Mann) V.Wirth & Vězda
- lygopsis Nyl., Lecanora**
- lyncea (Sm.) Ach., Arthonia = Lecanographa lyncea (Sm.) Egea & Torrente
- lyncea (Sm.) Fr., Lecanactis = Lecanographa lyncea (Sm.) Egea & Torrente
- lyncea (Sm.) Egea & Torrente, Lecanographa**
- lyncea (Sm.) Borrer, Opegrapha = Lecanographa lyncea (Sm.) Egea & Torrente
- lynceola Th.Fr., Lecidea = Micarea lynceola (Th.Fr.) Palice
- lynceola (Th.Fr.) Palice, Micarea**
- lyngeana Erichsen, Bacidia = Biatora pallens (Kullh.) Printzen
- lyngeana Zahlbr., Lecidea = Adolecia pilati (Hepp) Hertel & Hafellner
- lyngei (Schol.) Llano, Agyrophora = Umbilicaria lyngei Schol.
- lyngei Nád., Physcia = Physcia dubia (Hoffm.) Lettau
- lyngei Schol., Umbilicaria**
- lyngei Servít, Verrucaria**
- lyxemburgensis Diederich, Feltgeniomyces**
- macilenta Hoffm., Cladonia**
- macilenta subsp. floerkeana (Fr.) V.Wirth, Cladonia = Cladonia floerkeana (Fr.) Flörke
- macounii G.Merr., Arthonia**
- macounii (G.Merr.) W.J.Noble, Arthothelium**
- macrobasidiata J.C.Zamora et al., Tremella**
- macrocarpa (DC.) Hertel, Huilia = Porpidia macrocarpa (DC.) Hertel & A.J.Schwab
- macrocarpa var. convexa (Fr.), Huilia = Porpidia cinereoatra (Ach.) Hertel & Knoph
- macrocarpa var. trullisata (Arnold) Hertel, Huilia = Porpidia zeoroides (Anzi) Knoph & Hertel
- macrocarpa (DC.) Steud., Lecidea = Porpidia macrocarpa (DC.) Hertel & A.J.Schwab
- macrocarpa var. convexa (Fr.) H.Magn., Lecidea = Porpidia cinereoatra (Ach.) Hertel & Knoph
- macrocarpa subsp. convexa var. hydrophila (Fr.) Th. Fr., Lecidea = Porpidia hydrophila (Fr.) Hertel & A. J.Schwab
- macrocarpa var. platycarpa (Ach.) Th.Fr., Lecidea = Porpidia macrocarpa (DC.) Hertel & A.J.Schwab
- macrocarpa f. subflavicunda Vain., Lecidea = Porpidia macrocarpa (DC.) Hertel & A.J.Schwab
- macrocarpa var. superba (Körb.) Th. Fr., Lecidea = Porpidia superba (Körb.) Hertel & Knoph
- macrocarpa var. trullisata (Arnold) Mig., Lecidea = Porpidia zeoroides (Anzi) Knoph & Hertel
- macrocarpa (DC.) Hertel & A.J.Schwab, Porpidia**
- macrocarpa Å.E.Dahl, Pyrenopsis = Euopsis pulvinata (Schaer.) Vain.
- macrocarpa De Not., Stereopeltis = Sarcogyne clavus (DC.) Kremp.
- macrocarpum (DC.) M.Choisy, Haplocarpon = Porpidia macrocarpa (DC.) Hertel & A.J.Schwab
- macroceras (Delise) Hav., Cladonia**
- macroceratis Diederich & Hafellner, Tremella**

macrocyclus (H.Magn.) Degel., Lecanora =
Protoparmeliopsis macrocyclus (H.Magn.) Moberg
& R.Sant.

**macrocyclus (H.Magn.) Moberg & R.Sant.,
Protoparmeliopsis**

macrophylla (Schaer.) Stenh., Cladonia

macrophyllodes Nyl., Cladonia

**macrospora (Hepp) A.Massal. ex Bagl.,
Acarospora**

macrospora A.Massal., Acrocordia

**macrospora (Uloth) Hafellner & Nav.-Ros.,
Cercidospora**

macrospora (Eitner) M.B.Aguirre, Cresporhaphis

macrospora Uloth., Phacopsis = Cercidospora

macrospora (Uloth) Hafellner & Nav.-Ros.

**macrospora (Degel.) Coppins & P.James,
Pyrenula**

macrosporum Räsänen, Rhizocarpon

macrosporum P.M.Jørg. & P.James, Thelotrema

macrosporus (Hepp ex Arnold) Nyl., Endococcus

macrostoma Dufour ex DC., Verrucaria

**macula (Taylor) Coppins & Rambold,
Clauzadeana**

maculans Arnold, Leciographa = Phacographa
glaucomaria (Nyl.) Hafellner

maculans (Zopf) Höhn., Lichenopeltella

maculans Zopf, Microthyrium = Lichenopeltella

maculans (Zopf) Höhn.

maculans (Arnold) Hafellner, Opegrapha =
Phacographa glaucomaria (Nyl.) Hafellner

macularis (Almq.) Zahlbr., Allarthonia = Arthonia
vagans var. macularis Almq.

maculata (Erichsen) Almb., Lecanora = Lecanora
impudens Degel.

maculata Erichsen, Pertusaria = Lecanora impudens
Degel.

maculiformans Ihlen, Phoma

maculiformis Kremp., Verrucaria

maculosa (H.Magn.) Räsänen, Biatora = Fuscidea
gothoburgensis (H.Magn.) V.Wirth & Vězda

maculosa (H.Magn.) Poelt, Fuscidea = Fuscidea
gothoburgensis (H.Magn.) V.Wirth & Vězda

madeirensis Motyka, Usnea = Usnea silesiaca
Motyka

madida Orange, Verrucaria

maggiana (A.Massal.) Kőr., Leptorhaphis

magni-filii Poelt, Caloplaca

magnussoniana Hafellner & Türk, Lecanora =
Squamarina magnussonii Frey & Poelt

magnussoniana Hertel, Lecidea = Lecanora
cadubriae (A.Massal.) Hedl.

magnussoniana Servít, Polyblastia

magnussoniana Servít, Verrucaria

magnussonii Werner, Dermatocarpon =
Dermatocarpon litorale H.Magn.

magnussonii Servít, Involucrothele = Thelidium
magnussonii (Servít)

magnussonii Servít, Involucrothele = Hydropunctaria
maura (Wahlenb.) C.Keller et al.

magnussonii Degel. & P.M.Jørg., Leptogium =
Scytinium magnussonii (Degel. & P.M.Jørg.) Otálora
et al.

magnussonii Frey, Physcia

**magnussonii (Degel. & P.M.Jørg.) Otálora et al.,
Scytinium**

magnussonii Frey & Poelt, Squamarina

magnussonii (Servít), Thelidium

magyarica Vain., Cladonia

mahluensis Räsänen, Biatora = Pertusaria pupillar
(Nyl.) Th.Fr.

mahluensis (Räsänen) H.Magn., Lecidea = Pertusaria
pupillar (Nyl.) Th.Fr.

mahluensis Räsänen, Ochrolechia

majae Tønsberg, Miriquidica

major De Not., Buellia = Buellia disciformis (Fr.)
Mudd

major (K.G.Hagen) Sandst., Cladonia = Cladonia fimbriata (L.) Fr.

major Motyka ex Räsänen, Usnea = Usnea dasopoga (Ach.) Nyl.

malacea (Ach.) Funck, Peltigera

malangica (Norman) Arnold, Rinodina

malenconianum (Llimona & Werner) Hafellner & H.Mayrhofer, Rhizocarpon

malmeana (H.Magn.) Ozenda & Clauzade, Aspicilia = Sagedia zonata Ach.

malmeana Zahlbr., Catillaria = Micarea eximia Hedl.

malmeana H.Magn., Lecanora = Sagedia zonata Ach.

malmeana Zahlbr., Lecidea

malmedyensis Spæg. & Roum., Libertiella

malmei auct. succ., Buellia = Buellia uberior Anzi

malmei Servít, Verrucaria = Hydropunctaria maura (Wahlenb.) C.Keller et al.

mammillosa (Th.Fr.) Vain., Porina

mammillosa var. trechalea (Nyl.) Vain., Porina = Porina mammillosa (Th.Fr.) Vain.

manriquei Etayo, Unguiculariopsis

marcineae Selva, Chaenothecopsis

margacea Poelt, Lecanora

margacea (Wahlenb.) Wahlenb., Verrucaria

margaretae Hakul., Candelariella

margaritacea Lyngé, Buellia = Diplozomma alboatrum (Hoffm.) Flot.

margaritella (Hulting) Hafellner, Fellhanera = Puttea

margaritella (Hulting) S.Stenroos & Huhtinen

margaritella Hulting, Lecidea = Puttea margaritella (Hulting) S.Stenroos & Huhtinen

margaritella (Hulting) S.Stenroos & Huhtinen, Puttea

marginata (Arnold) Lettau, Bacidia = Byssoloma marginatum (Arnold) Sérus.

marginata (Schaer.) Hertel & Rambold, Lecanora

marginata Schaer., Lecidea = Lecanora marginata (Schaer.) Hertel & Rambold

marginata Coppins & Muhr, Micarea

marginatum (Arnold) Sérus., Byssoloma

marianum (Nádv.) Nádv., Calicium = Allocalicium adaequatum (Nyl.) M.Prieto & Wedin

marianum Nádv., Embolidium = Allocalicium adaequatum (Nyl.) M.Prieto & Wedin

marina (Deakin) A.L.Sm., Arthopyrenia = Stigmatidium marinum (Deakin) Swinscow

marina (Wedd.) Zahlbr., Caloplaca = Flavoplaca marina (Wedd.) Arup et al.

marina (Wedd.) Arup et al., Flavoplaca

marina (E.Nyl.) Lyngé, Physcia = Physcia tenella (Scop.) DC.

marinum (Deakin) Swinscow, Stigmatidium

maritima Sommerf., Lecanora = Lecania aipospila (Wahlenb.) Th.Fr.

marmorata Nyl., Arthonia = Felipes leucopellaeus (Ach.) Frisch & G.Thor

marmorata Bagl., Caloplaca = Xanthocarpia marmorata (Bagl.) Frödén et al.

marmorata (Kremp.) Hepp, Microthelia = Polycoccum marmoratum (Kremp.) D.Hawksw.

marmorata (Bagl.) Frödén et al., Xanthocarpia

marmoratum (Kremp.) D.Hawksw., Polycoccum

mashiginensis (Zahlbr.) Oxner, Aspicilia

mashiginensis Zahlbr., Lecanora = Aspicilia

mashiginensis (Zahlbr.) Oxner

massalongii sensu Malme, Rhizocarpon = Rhizocarpon hochstetteri (Körb.) Vain.

massalongoi, Rhizocarpon = Rhizocarpon infernum (Nyl.) Lyngé

massiliensis Durieu & Mont., Dirina

mastoidea Lyngé, Lecanora = Aspicilia bertii (Lyngé) A.Nordin et al.

mastrucata (Wahlenb.) Th.Fr., Aspicilia = Sagedia mastrucata (Wahlenb.) A.Nordin et al.

mastrucata (Wahlenb.) Ach., Lecanora = Sagedia mastrucata (Wahlenb.) A.Nordin et al.

mastrucata (Wahlenb.) A.Nordin et al., Sagedia

**maura (Wahlenb.) C.Keller et al.,
Hydropunctaria**

maura Wahlenb., Verrucaria = Hydropunctaria
maura (Wahlenb.) C.Keller et al.

maureri Hafellner, Lichenostigma

maxima (Asahina) Ahti, Cladonia

mayrhoferi J.C.Zamora et al., Tremella

mazaediicola D.Hawksw., Asterophoma

mazarina (Wahlenb.) R.Sant., Aspicilia = Aspicilia
aquatica (Fr.) Körb.

mazarina (Wahlenb.) Du Rietz, Lecanora = Aspicilia
aquatica (Fr.) Körb.

mccroryae C.R.Björk et al., Pertusaria

media Savić & Tibell, Polyblastia

medians (Nyl.) A.L.Sm., Candelariella

mediella Nyl., Arthonia

mediella var. sapinea Nyl., Arthonia = Arthonia
mediella Nyl.

mediterranea (Tav.) P.M.Jørg., Fuscopannaria

mediterranea Tav., Pannaria = Fuscopannaria
mediterranea (Tav.) P.M.Jørg.

megalospora Lönnr., Arthopyrenia = Naetrocymbe
fraxini (A.Massal.) R.C.Harris

meiocarpa (Nyl.) Arnold, Biatora

meiocarpa Nyl., Lecidea = Biatora meiocarpa (Nyl.)
Arnold

meiocarpa subsp. sphaerella (Hedl.) Vain., Lecidea =
Lecidea sphaerella Hedl.

meiococca Nyl., Lecidea = Lecidella meiococca
(Nyl.) Leuckert & Hertel

meiococca (Nyl.) Leuckert & Hertel, Lecidella

meiophyllizum Vain., Dermatocarpon

meiophyllum Vain., Dermatocarpon =
Dermatocarpon meiophyllizum Vain.

meiosporoides (Norrl.) Nyl., Lecidea = Porpidia
tuberculosa (Sm.) Hertel & Knoph

melaena (Nyl.) Zahlbr., Bacidia = Micarea melaena
(Nyl.) Hedl.

melaena (Nyl.) Arnold, Bilimbia = Micarea melaena
(Nyl.) Hedl.

melaena (Nyl.) Hedl., Micarea

melaenella Vain., Verrucaria = Verrucaria xyloxena
Norman

melaeniza (Hedl.) Zahlbr., Lecidea = Micarea
melaeniza Hedl.

melaeniza Hedl., Micarea

melaenum (Ach.) Ach., Collema = Lathagrium
cristatum (L.) Otálora et al.

melaleuca sensu Malme, Arthonia = Felipes
leucopellaeus (Ach.) Frisch & G.Thor

melaleuca (Sommerf.) M.P.Andreev, Calvitimela

melaleuca (Sommerf.) Haugan & Timdal,
Tephromela = Calvitimela melaleuca (Sommerf.) M.
P.Andreev

melaleucum Ach., Spiloma = Lecanographa lyncea
(Sm.) Egea & Torrente

melanaspis (Ach.) Poelt & Leuckert, Aspicilia =
Lobothallia melanaspis (Ach.) Hafellner

melanaspis (Ach.) Ach., Lecanora = Lobothallia
melanaspis (Ach.) Hafellner

melanaspis var. alphoplaca (Wahlenb.) Th.Fr.,
Lecanora = Lobothallia alphoplaca (Wahlenb.)
Hafellner

melanaspis (Ach.) Hafellner, Lobothallia

melanaspis (Ach.) Räsänen, Parmularia =
Lobothallia melanaspis (Ach.) Hafellner

melanaspis (Ach.) Räsänen, Placolecanora =
Lobothallia melanaspis (Ach.) Hafellner

melancheima Tuck., Lecidea = Ramboldia elabens
(Fr.) Kantvilas & Elix

melaneimum (Vain.) Zahlbr., Rhizocarpon =
Rhizocarpon rittokense (Hellb.) Th.Fr.

melaneliae Diederich & Zhurb., Odontotrema =
Sphaeropezia melaneliae (Diederich & Zhurb.)
Baloch et al.

**melaneliae (Diederich & Zhurb.) Baloch et al.,
Sphaeropezia**

melanobola (Nyl.) B.de Lesd., Catillaria = Micarea
melanobola (Nyl.) Coppins

melanobola (Nyl.) Vain., Catillaria = Micarea
melanobola (Nyl.) Coppins

melanobola Nyl., Lecidea = Micarea melanobola
(Nyl.) Coppins

melanobola (Nyl.) Coppins, Micarea

melanocarpa auct. non (Th.Fr.) J.Steiner, Caloplaca
= Caloplaca concilians (Nyl.) H.Olivier

melanocarpa (Th.Fr.) J.Steiner, Caloplaca =
Parvoplaca tirolensis (Zahlbr.) Arup et al.

melanocarpa (Kremp.) Arnold, Hymenelia

melanocarpa (Kremp.) Arnold, Ionaspis = Hymenelia
melanocarpa (Kremp.) Arnold

melanocarpa Müll.Arg., Rinodina = Rinodina
rinodinoides (Anzi) H.Mayrhofer & Scheid.

melanocarpum (Sw.) Wedin, Bunodophoron

melanocarpus (Sw.) DC., Sphaerophorus =
Bunodophoron melanocarpum (Sw.) Wedin

melanochlora (DC.) Hafellner, Lepra

melanochlora (DC.) Nyl., Pertusaria = Lepra
melanochlora (DC.) Hafellner

melanophaea (Ach.) Zwackh, Chaenotheca =
Chaenotheca ferruginea (Turner ex Sm.) Mig.

melanophaea Fr., Lecidea = Tremolecia atrata (Ach.)
Hertel

melanophthalma (DC.) Ramond, Lecanora =
Rhizoplaca melanophthalma (DC.) Leuckert & Poelt

melanophthalma (DC.) Räsänen, Parmularia =
Rhizoplaca melanophthalma (DC.) Leuckert & Poelt

**melanophthalma (DC.) Leuckert & Poelt,
Rhizoplaca**

"melanospora", Polyblastia = Henrica melaspora
(Taylor) Savić & Tibell

melanosticta (Ach.) Trass, Anaptychia = Anaptychia
ciliaris (L.) Körb.

melaphana Nyl., Lecidea = Scoliciosporum intrusum
(Th.Fr.) Hafellner

melaphanoides Nyl., Lecidea

melaspora (Taylor) Savić & Tibell, Henrica

melaspora (Taylor) Zahlbr., Polyblastia = Henrica
melaspora (Taylor) Savić & Tibell

melastoma Nyl., Pertusaria = Pertusaria sommerfeltii
(Flörke ex Sommerf.) Fr.

melathelia Nyl., Thelopsis

melinodes (Körb.) V.Wirth, Haplocarpon = Porpidia
melinodes (Körb.) Gowan & Ahti

melinodes (Körb.) Hertel, Huilia = Porpidia
melinodes (Körb.) Gowan & Ahti

melinodes (Körb.) H.Magn., Lecidea = Porpidia
melinodes (Körb.) Gowan & Ahti

melinodes (Körb.) Gowan & Ahti, Porpidia

melinus (Kremppl. ex Nyl.) Hellb., Mycoblastus =
Mycoblastus affinis (Schaer.) T.Schauer

melops Dufour ex Nyl., Physcia = Physcia phaea
(Tuck.) J.W.Thomson

membranacea (Dicks.) Zahlbr., Crocynia = Lepraria
membranacea (Dicks.) Vain.

membranacea (Dicks.) Vain., Lepraria

membranacea (Ach.) Nyl., Peltigera

membranaceum (Dicks.) J.R.Laundon, Leproloma =
Lepraria membranacea (Dicks.) Vain.

memnonia Hafellner & Türk., Protoparmelia

memnonia (Körb.) Arnold, Verrucaria

mendax Czarnota & Guz.-Krzem., Bacidina

merochlorophaea Asahina, Cladonia

merochlorophaea var. novochlorophaea Sipman,
Cladonia = Cladonia novochlorophaea (Sipman)
Brodo & Ahti

mesomorpha Nyl., Evernia

mesomorpha (Nyl.) Du Rietz, Letharia = Evernia
mesomorpha Nyl.

mesophana (Nyl.) Nyl., Lecanora = Lecanora
allophana Nyl.

mesotropa Nyl., Verrucaria = Thelidium minutulum
Körb.

mesotropiza (Nyl.) Räsänen, Biatora = Lecanora
formosa (Bagl. & Carestia) Knoph & Leuckert

mesotropiza (Nyl.) Hellb., Lecidea = Lecanora formosa (Bagl. & Carestia) Knoph & Leuckert

mesotropum (Nyl.) A.L.Sm., Thelidium = Thelidium minutulum Korb.

metaboliza Vain., Rinodina

metacorallifera Asahina, Cladonia = Cladonia straminea (Sommerf.) Flörke

metacorallifera var. reagens Asahina, Cladonia = Cladonia straminea (Sommerf.) Flörke

methorium (Nyl.) Hellb., Thelidium

metzleri (Korb.) Clauzade & Cl.Roux ex D. Hawksw., Clauzadea

metzleri (Korb.) Th.Fr., Lecidea = Clauzadea

metzleri (Korb.) Clauzade & Cl.Roux ex D.Hawksw.

metzleri (Lahm) D.Hawksw., Lichenothelia

metzleri Lahm, Microthelia = Lichenothelia metzleri (Lahm) D.Hawksw.

metzleri (Korb.) J.Steiner, Protoblastenia = Clauzadea metzleri (Korb.) Clauzade & Cl.Roux ex D.Hawksw.

meylanii Frey, Lecanephebe = Zahlbrucknerella calcarea (Herre) Zahlbr.

micacea Korb., Lecidea = Lecidella stigmata (Ach.) Hertel & Leuckert

michaudii B.de Lesd. quoad specim. scand., Catillaria = Rhizocarpon cinereovirens (Müll.Arg.) Vain.

michelettiana A.Massal., Biatorina = Solenopsora olivacea (Dufour) H.Kilias

michelii (A.Massal.) R.Sant., Catapyrenium = Placidium michelii A.Massal.

michelii (A.Massal.) Zwackh, Dermatocarpon = Placidium michelii A.Massal.

michelii A.Massal., Placidium

micraspis Sommerf., Lecanora = Sclerococcum sphaerale (Ach.) Fr.

microareolata Launis et al., Micarea

microbolum auct. europ., Thelidium = Thelidium fontigenum A.Massal.

microbotrys Th.Fr. & Hellb., Biatorina = Miriquidica pycnocarpa (Korb.) M.P.Andreev

microcarpa (Th.Fr.) Lettau, Bacidia = Bilimbia microcarpa (Th.Fr.) Th.Fr.

microcarpa f. frigoris (Nilson) H.Magn., Bacidia = Bilimbia microcarpa (Th.Fr.) Th.Fr.

microcarpa (Th.Fr.) Th.Fr., Bilimbia

microcarpa R.Sant., Catillaria = Catillaria atomarioides (Müll.Arg.) H.Kilias

microcarpa (Th.Fr.) Brunnb., Mycobilimbia = Bilimbia microcarpa (Th.Fr.) Th.Fr.

microcarpa (Th.Fr.) Hafellner in Hafellner & Türk, Myxobilimbia = Bilimbia microcarpa (Th.Fr.) Th.Fr.

microcarpum (Davis ex Leight.) A.L.Sm., Thelidium = Thelidium zwackhii (Hepp) A.Massal.

microcarpum Arnold, Tichothecium = Muellerella erratica (Müll.Arg.) Hafellner & V.John

microcephala (Sm.) Vain., Phacotiella = Sphinctrina anglica Nyl.

microcephala (Sm.) Korb, Sphinctrina = Sphinctrina anglica Nyl.

microcephala Nyl., Sphinctrina = Sphinctrina tubiformis A.Massal.

micrococca (Korb.) Th.Fr., Catillaria = Micarea micrococca (Korb.) Gams ex Coppins

micrococca (Korb.) Gams ex Coppins, Micarea

microglaenoides Th.Fr., Lopadium = Gyalidea fritzei (Stein) Vězda

microhaema Norman, Biatorina = Strangospora microhaema (Norman) R.A.Anderson

microhaema (Norman) R.A.Anderson, Strangospora

micromicra Norman, Polyblastia = Polyblastia singularis (Kremp.) Arnold

micromma (Nyl. ex Stizenb.) Hulting, Bacidia = Byssoloma marginatum (Arnold) Sérus.

microphaea Nyl., Lecidea

microphylla (Sw.) Delise in Bory, Pannaria = Vahliella leucophaea (Vahl) P.M.Jørg.

microphylla (Sw.) Müll.Arg., Parmeliella = Vahliella
leucophaea (Vahl) P.M.Jørg.

microphyllina (Tuck.) Hasse, Caloplaca

microphyllina quoad lich. scand., Caloplaca =
Flavoplaca citrina (Hoffm.) Arup et al.

microphyllum Ach., Collema = Scytinium fragrans
(Sm.) Otálora et al.

microphyllum (Ach.) Leight., Leptogium =
Scytinium fragrans (Sm.) Otálora et al.

microplaca (Vain.) Erichsen, Buellia = Buellia
ectolechioides (Vain.) Erichsen

micropsis (A.Massal.) Hertel, Farnoldia

micropsis (A.Massal.) Hertel, Melanolecia =
Farnoldia micropsis (A.Massal.) Hertel

microscopicum (Vill.) Gams, Leprocaulon =
Leprocaulon quisquiliare (Leers) M.Choisy

microscopicum (Vill.) Frey, Stereocaulon =
Leprocaulon quisquiliare (Leers) M.Choisy

microsphaeroides (Nyl.) Vain., Lecidea = Biatora
globulosa (Flörke) Fr.

microspila Körb., Arthopyrenia = Stigmatidium

microspilum (Körb.) D.Hawksw.

microspila (Körb.) G.Winter, Pharcidia =
Stigmatidium microspilum (Körb.) D.Hawksw.

microspilum (Körb.) D.Hawksw., Stigmatidium

microspora Etayo, Dactylospora = Sclerococcum

microsporium (Etayo) Ertz & Diederich

microspora auct., Verrucaria = Verrucaria halophila
Branth & Rostr.

microspora Nyl., Verrucaria = Wahlenbergiella
striatula (Wahlenb.) Gueidan & Thüs

microsporella Malme, Lecidea = Lecidea malmeana
Zahlbr.

**microsporium (Etayo) Ertz & Diederich,
Sclerococcum**

microsticta Nyl., Varicellaria = Varicellaria
rhodocarpa (Körb.) Th.Fr.

microsticticum (Leight.) Arnold, Polycoccum

microstictoides Räsänen, Ochrolechia

microstictum Vain., Thelidium

microthallina (Wedd.) Zahlbr., Caloplaca =
Flavoplaca microthallina (Wedd.) Arup et al.

microthallina (Wedd.) Arup et al., Flavoplaca

micula Flot. ex Körb., Microthelia = Anisomeridium
biforme (Borrer) R.C.Harris

miliaria (Fr.) Körb., Bacidia = Micarea lignaria
(Ach.) Hedl. var. lignaria

miliaria var. leprosula Th.Fr., Bilimbia = Micarea
leprosula (Th.Fr.) Coppins & A.Fletcher

miliaris (Wallr.) Trevis., Scutula

miliaris var. epigena (Nyl.) Vain., Scutula = Scutula
miliaris (Wallr.) Trevis.

miliaris var. versicolor Vain., Scutula = Scutula
miliaris (Wallr.) Trevis.

milvina (Wahlenb.) Th.Fr., Rinodina

milvina var. amphibolitica Räsänen, Rinodina =
Rinodina parasitica H.Mayrhofer & Poelt

mimicrans Servít, Verrucaria

miniatum (L.) W.Mann, Dermatocarpon

**miniatum (L.) W.Mann var. cirsodes (Ach.)
Zahlbr., Dermatocarpon**

**miniatum (L.) W.Mann var. complicatum
(Lightf.) Th.Fr., Dermatocarpon**

miniatum var. diffractum Th. Fr., Dermatocarpon =
Dermatocarpon leptophyllodes (Nyl.) Zahlbr.

**miniatum (L.) W.Mann var. miniatum,
Dermatocarpon**

miniatum var. papillosum (Anzi) Müll.Arg.,
Dermatocarpon = Dermatocarpon miniatum (L.) W.
Mann var. cirsodes (Ach.) Zahlbr.

miniatum var. umbilicatum (Schaer.) Vain.,
Dermatocarpon = Dermatocarpon miniatum (L.) W.
Mann var. miniatum

miniescens Erichsen, Pertusaria = Megalaria
pulverea (Borrer) Hafellner & E.Schreiner

minima (Vain.) Räsänen, Bilimbia = Biatora pallens
(Kullh.) Printzen

minimula (Tuck.) Fink, Buelliella

**minimum (A.Massal. ex Körb.) Arnold,
Thelidium**

minor (Nyl.) Räsänen, Biatora = Biatora meiocarpa
(Nyl.) Arnold

minuscula (Arnold) Degel., Alectoria = Pseudephebe
minuscula (Nyl. ex Arnold) Brodo & D.Hawksw.

minuscula (Anzi) Vězda, Bacidia = Biatora
beckhausii (Körb.) Tuck.

minuscula (Nyl.) Bowler & Rundel, Fistulariella =
Ramalina dilacerata (Hoffm.) Hoffm.

minuscula (Arnold) Nyl., Parmelia = Pseudephebe
minuscula (Nyl. ex Arnold) Brodo & D.Hawksw.

**minuscula (Nyl. ex Arnold) Brodo & D.Hawksw.,
Pseudephebe**

minuscula f. caesiascens H. Magn., Ramalina =
Ramalina dilacerata (Hoffm.) Hoffm.

minuta Millanes et al., Biatoropsis

minuta H. Magn., Blastenia = Caloplaca
atrocyanescens (Th.Fr.) H.Olivier

minuta (A.Massal.) Lettau, Catillaria

minuta (Schaer.) A.Massal., Lecidea = Biatora
globulosa (Flörke) Fr.

minuta Coppins & P.James, Wadeana

minutellum Ach., Calicium = Mycocalicium subtile
(Pers.) Szatala

minutellum (Ach.) Nádv., Mycocalicium =
Mycocalicium subtile (Pers.) Szatala

minutissima (Ach.) Nyl., Arthonia

minutissima Lumbsch & Heibel, Coppinsia

minutissimum (Flörke) Fr., Leptogium = Scytinium
subtile (Schrad.) Otálora et al.

minutissimum auct., Leptogium = Scytinium
intermedium (Arnold) Otálora et al.

minutula Körb., Xylographa = Xylographa parallela
(Ach.:Fr.) Fr.

minutululum Körb., Thelidium

minutum Körb., Calicium = Calicium abietinum
Pers.

minutum Körb., Calicium = Calicium glaucellum
Ach.

minutum Hafellner, Sphaerellothecium

minutum Savić & Tibell, Sporodictyon

mirabilis Nilson, Lecidea

miriquidica Scheid., Buellia

miscella (Sommerf.) Fr., Biatora = Lecidea
berengeriana (A.Massal.) Th.Fr.

miscella Sommerf., Lecidea = Lecidea berengeriana
(A.Massal.) Th.Fr.

miscelloides Nyl., Lecidea = Hertelidea botryosa
(Fr.) Printzen & Kantvilas

misella (Nyl.) Nyl., Lecidea = Micarea misella (Nyl.)
Hedl.

misella Ach., Lecidea

misella (Nyl.) Hedl., Micarea

mitis (Sandst.) Mong., Cladina = Cladonia mitis
Sandst.

mitis Sandst., Cladonia

mixta (Fr.) Hellb., Biatorina = Cliostomum griffithii
(Sm.) Coppins

mniaraea (Ach.) Körb., Rinodina = Rinodina
mniaroea (Ach.) Körb.

mniaraea var. cinnamomea Th.Fr, Rinodina =
Rinodina mniaroea (Ach.) Körb. var. cinnamomea
Th.Fr.

mniaraea (Ach.) Körb. var. mniaraea, Rinodina =
Rinodina mniaroea (Ach.) Körb. var. mniaroea

mniaraea var. mniaraeiza (Nyl.) H.Magn, Rinodina =
Rinodina mniaroea (Ach.) Körb. var. mniaraeiza
(Nyl.) H.Magn.

mniaraeiza (Nyl.) Arnold, Rinodina = Rinodina
mniaroea (Ach.) Körb. var. mniaraeiza (Nyl.) H.
Magn.

mniaraeoides Nyl., Lecidea = Rinodina mniaroea
(Ach.) Körb. var. mniaroea

mniaroea Ach., Lecanora = Rinodina mniaroea
(Ach.) Körb.

mniaroea (Ach.) Körb., Rinodina

mniaroea (Ach.) Körb. var. cinnamomea Th.Fr., Rinodina

mniaroea (Ach.) Körb. var. mniaroea, Rinodina

mniaroea (Ach.) Körb. var. mniaroeiza (Nyl.) H. Magn., Rinodina

mniaroeiza Nyl., Lecanora = Rinodina mniaroea (Ach.) Körb. var. mniaroeiza (Nyl.) H. Magn.

mniaroeiza (Nyl.) Arnold, Rinodina = Rinodina mniaroea (Ach.) Körb. var. mniaroeiza (Nyl.) H. Magn.

modesta (Hegetschw. ex Stizenb.) Vězda, Absconditella = Absconditella delutula (Nyl.) Coppins & H.Kilias

modesta (Zwackh ex Vain.) S.Ekman, Bacidina

modesta Zwackh ex Vain., Biatora = Bacidina
modesta (Zwackh ex Vain.) S.Ekman

modesta (Nyl.) A.L.Sm., Microglæna = Thelenella
modesta (Nyl.) Nyl.

modesta (Nyl.) Nyl., Thelenella

modesta var. grisella (Nyl.) Kickx, Thelenella = Thelenella modesta (Nyl.) Nyl.

modica Pykälä & Myllys, Verrucaria

moenium (Vain.) Räsänen, Acarospora

moenium (Vain.) G.Thor & Timdal, Aspicilia = Acarospora moenium (Vain.) Räsänen

moenium Vain., Endocarpon = Acarospora moenium (Vain.) Räsänen

moerensis H.Magn., Lecidea

molendoi (Heufl. ex Frauenf.) R.Sant., Arthonia

molendoi Heufl. ex Frauenf., Tichothecium = Arthonia molendoi (Heufl. ex Frauenf.) R.Sant.

mollis (Wahlenb.) Arnold, Biatora = Fuscidea mollis (Wahlenb.) V.Wirth & Vězda

mollis (Wahlenb.) V.Wirth & Vězda, Fuscidea

mollis (Wahlenb.) V.Wirth & Vězda var. caesioalbescens (H.Magn.) Clauzade & Cl.Roux, Fuscidea

mollis (Wahlenb.) V.Wirth & Vězda var. mollis, Fuscidea

mollis (Wahlenb.) Nyl., Lecidea = Fuscidea mollis (Wahlenb.) V.Wirth & Vězda

mollis subsp. caesioalbescens (H. Magn.) Vain., Lecidea = Fuscidea mollis (Wahlenb.) V.Wirth & Vězda var. caesioalbescens (H.Magn.) Clauzade & Cl.Roux

mollis Pers., Stictis

molliuscula auct., Parmelia = Xanthoparmelia stenophylla (Ach.) Ahti & D.Hawksw.

molybdina (Wahlenb.) A.Massal., Acarospora

molybdina (Wahlenb.) A.Massal. var. confusa H. Magn, Acarospora

molybdina (Wahlenb.) A.Massal. var. molybdina, Acarospora

monacensis (Leder.) Lettau, Caloplaca

monachorum (Zahlbr.) W.L.Culb. & C.F.Culb., Cetreliia

monasteriense J.Lahm ex Körb., Biatroridium

monasteriense (J.Lahm ex Körb.) J.Lahm, Biatorella = Biatroridium monasteriense J.Lahm ex Körb.

monomorpha Aptroot et al., Cladonia = Cladonia pyxidata (L.) Hoffm.

monoseptata Ertz & Tønsberg, Sagirolechia

monosporum auct., Thelotrema = Thelotrema macrosporum P.M.Jørg. & P.James

monstruosa Vain., Usnea = Usnea barbata (L.) Weber ex F.H.Wigg.

montagnei Körb., Rhizocarpon = Rhizocarpon disporum (Nägeli ex Hepp) Müll.Arg.

montana H.Magn., Acarospora = Acarospora rugulosa Körb.

montana (H.Magn.) Creveld, Aspicilia = Sagedia simoënsis (Räsänen) A.Nordin et al.

montana Rikkinen, Chaenothecopsis

montana H.Magn., Lecanora = Sagedia simoënsis (Räsänen) A.Nordin et al.

montana H.Magn., Lecidea = Porpidia cinereoatra (Ach.) Hertel & Knoph

montanella Vain., Lecidea

monticola Arup & Vondrák, Blastenia

**monticola (Schaer.) Hafellner & Bellem.,
Clauzadea**

monticola Schaer., Lecidea = Clauzadea monticola
(Schaer.) Hafellner & Bellem.

monticola Vitik., Peltigera

monticola (Schaer.) J.Steiner, Protoblastenia =
Clauzadea monticola (Schaer.) Hafellner & Bellem.

mooreana (Carroll) Lumbsch & I.Schmitt, Ainoa

mooreana Carroll, Lecidea = Ainoa mooreana
(Carroll) Lumbsch & I.Schmitt

mooreana (Carroll) P.James, Trapelia = Ainoa
mooreana (Carroll) Lumbsch & I.Schmitt

moravica Zschacke, Polyblastia

morbifera Vain., Lecidea = Lambiella sphacelata
(Th.Fr.) M.Westb. & Resl

moriformis (Ach.) Th.Fr., Biatorella = Strangospora
moriformis (Ach.) Stein

moriformis (Ach.) Stein, Strangospora

morio auct., Sporastatia = Sporastatia testudinea
(Ach.) A.Massal.

morioides Blomb. ex Arnold, Aspicilia =
Clauzadeana macula (Taylor) Coppins & Rambold

morioides (Blomb. ex Arnold) Blomb., Lecanora =
Clauzadeana macula (Taylor) Coppins & Rambold

moriopsis (A.Massal.) Th.Fr., Buellia =
Orphniospora moriopsis (A.Massal.) D.Hawksw.

moriopsis (A.Massal.) D.Hawksw., Orphniospora

moriopsoides (Vain.) Zahlbr., Buellia =
Orphniospora moriopsoides (Vain.)

moriopsoides (Vain.), Orphniospora

mosigii (Körb.) Anzi, Lecidea = Orphniospora
mosigii (Körb.) Hertel & Rambold

mosigii auct. scand. p.m.p., Lecidea = Miriquidica
plumbeoatra (Vain.) A.J.Schwab & Rambold

mosigii (Körb.) Hertel & Rambold, Orphniospora

mosigii auct. scand., Orphniospora = Miriquidica
plumbeoatra (Vain.) A.J.Schwab & Rambold

mougeotii (A.Massal) Ertz et al., Alyxoria

mougeotii (Hepp) Lojka, Buellia

mougeotii A.Massal., Opegrapha = Alyxoria
mougeotii (A.Massal) Ertz et al.

mougeotii Schaer. ex D.Dietr., Parmelia =
Xanthoparmelia mougeotii (Schaer. ex D.Dietr.)
Hale

**mougeotii (Schaer. ex D.Dietr.) Hale,
Xanthoparmelia**

mougeotioides H.Magn., Lecidea

mougeotioides Nyl., Rinodina = Dimelaena oreina
(Ach.) Norman

mucida Pers., Clavaria = Multiclavula mucida (Pers.)
R.H.Petersen

mucida (Pers.) Corner, Lentaria = Multiclavula
mucida (Pers.) R.H.Petersen

mucida (Pers.) R.H.Petersen, Multiclavula

**mucosa (Wahlenb.) Gueidan & Thüs,
Wahlenbergiella**

mucosa Wahlenb., Verrucaria = Wahlenbergiella
mucosa (Wahlenb.) Gueidan & Thüs

mucronatula H.Magn., Rinodina = Rinodina terrestris
Tomin

muddii Obermayer, Arthrorhaphis

mughicola Nyl., Lecanora

muhrii Coppins, Micarea = Micarea vulpinaris (Nyl.)
Muh

mulleri (Willey) D.Hawksw. & R.Sant., Skyttella

multifidum (Scop.) Rabenh., Collema = Lathagrium
cristatum (L.) Otálora et al.

multipartita (Sm.) Otálora et al., Callome

multipartitum Sm., Collema = Callome multipartita
(Sm.) Otálora et al.

multipuncta (Turner) Hafellner, Lepra

multipuncta Coppins & P.James, Opegrapha = Porina
multipuncta (Coppins & P.James) Ertz et al.

multipuncta (Turner) Nyl., Pertusaria = Lepra
multipuncta (Turner) Hafellner

multipuncta auct., Pertusaria = Lepra ophthalmiza
(Nyl.) Hafellner

multipuncta var. ophthalmiza Nyl., Pertusaria =
Lepra ophthalmiza (Nyl.) Hafellner

**multipuncta (Coppins & P.James) Ertz et al.,
Porina**

multipunctata Vain., Acarospora = Aspicilia
multipunctata (Vain.)

multipunctata (Vain.), Aspicilia

multipunctata (Vain.) H.Magn., Lecanora = Aspicilia
multipunctata (Vain.)

multiseptata Anzi, Toninia = Toninia squalida (Ach.)
A.Massal.

multispora (E.Dahl) Henssen, Ephebe

multispora E.Dahl, Spilonematopsis = Ephebe
multispora (E.Dahl) Henssen

muralis (Schreb.) Rabenh., Lecanora =
Protoparmeliopsis muralis (Schreb.) M.Choisy

muralis var. macrocyclos H.Magn., Lecanora =
Protoparmeliopsis macrocyclos (H.Magn.) Moberg
& R.Sant.

muralis (Schreb.) Räsänen, Placolecanora =
Protoparmeliopsis muralis (Schreb.) M.Choisy

muralis (Schreb.) M.Choisy, Protoparmeliopsis

muralis Ach., Verrucaria

muricata (Ach.) Eckfeldt, Cetraria

muricata (Ach.) Ach., Cornicularia = Cetraria
muricata (Ach.) Eckfeldt

muricatum (Ach.) J.R.Laundon, Coelocaulon =
Cetraria muricata (Ach.) Eckfeldt

murina Sandst., Acarospora = Myriospora
smaragdula (Wahlenb. ex Ach.) Nägeli ex Uloth

murina (Ach.) DC., Umbilicaria = Umbilicaria grisea
Hoffm.

murina Leight., Verrucaria

murorum (Ach.) Th.Fr., Caloplaca = Caloplaca
saxicola (Hoffm.) Nordin

murorum (Ach.) DC., Placodium = Caloplaca
saxicola (Hoffm.) Nordin

muscicola (Ach. ex Nyl.) Trevis., Chromatochlamys
= Thelenella muscorum (Fr.) Vain. var. muscorum

muscicola P.James & Vězda, Gyalideopsis

muscicola (Sw.) Fr., Leptogium = Polychidium
muscicola (Sw.) Gray

muscicola Lönnr., Microglaena = Thelenella
muscorum (Fr.) Vain. var. muscorum

muscicola (Sw.) Gray, Polychidium

muscicola f. kalkuense (Räsänen) Henssen,
Polychidium = Polychidium muscicola (Sw.) Gray

muscicola H.Magn., Rinodina

muscicola F.Berger et al., Strigula

muscicola Nyl., Verrucaria = Thelenella muscorum
(Fr.) Vain.

muscigena Th.Fr., Arthonia = Bryostigma lapidicola
(Taylor) S.Y.Kondr. & J.-S.Hur

muscigena (Ach.) Nyl., Physcia = Physconia
muscigena (Ach.) Poelt

muscigena (Ach.) Poelt, Physconia

muscigenae (Anzi) Rehm, Leciographa = Tetramelas
pulverulentus (Anzi) A.Nordin & Tibell

muscigenum (Th.Fr.) Frisch & G.Thor, Bryostigma =
Bryostigma lapidicola (Taylor) S.Y.Kondr. & J.-S.
Hur

muscorum (Sw.) Mudd, Bacidia = Toniniopsis
bagliettoana (A.Massal. & De Not.) Kistenich &
Tindal

muscorum var. irrorata (Th.Fr.) Vain., Bacidia =
Toniniopsis illudens (Nyl.) Kistenich et al.

muscorum (Fr.) H.Mayrhofer & Poelt,
Chromatochlamys = Thelenella muscorum (Fr.)
Vain.

muscorum var. muscorum (Fr.) H.Mayrhofer &
Poelt, Chromatochlamys = Thelenella muscorum
(Fr.) Vain. var. muscorum

muscorum var. octospora (Nyl.) H.Mayrhofer &
Poelt, Chromatochlamys = Thelenella muscorum
(Fr.) Vain. var. octospora (Nyl.) Coppins & Fryday

muscorum (Scop.) R.Sant., Diploschistes

muscorum Scop., Lichen = Diploschistes muscorum
(Scop.) R.Sant.

muscorum (Fr.) Th.Fr., Microglaena = Thelenella
muscorum (Fr.) Vain.

muscorum (Fr.) Vain., Thelenella

muscorum (Fr.) Vain. var. muscorum, Thelenella

**muscorum (Fr.) Vain. var. octospora (Nyl.)
Coppins & Fryday, Thelenella**

musiva (Körb.) Vězda, Huilia = Porpidia cinereoatra
(Ach.) Hertel & Knoph

musiva Körb., Lecidea = Porpidia cinereoatra (Ach.)
Hertel & Knoph

musiva (Körb.) Hertel & Knoph, Porpidia = Porpidia
cinereoatra (Ach.) Hertel & Knoph

musivum (Körb.) Vězda, Haplocarpon = Porpidia
cinereoatra (Ach.) Hertel & Knoph

mutabilis (Ach.) Nyl, Lecanora = Megaspora
verrucosa (Ach.) Hafellner & V.Wirth

mutabilis Sommerf., Lecanora = Lecanora intricata
(Ach.) Ach.

mutabilis (Ach.) A.Massal., Pachyospora =
Megaspora verrucosa (Ach.) Hafellner & V.Wirth

mycobilimbiae Cl.Roux et al., Stigmatidium

mycoblasti Diederich et al., Sphaeropezia

**myochroa (M.Westb.) K.Knudsen & L.Arcadia,
Myriospora**

myochroa M.Westb., Silobia = Myriospora
myochroa (M.Westb.) K.Knudsen & L.Arcadia

myochroum (Bernh.) Nyl., Leptogium = Leptogium
saturninum (Dicks.) Nyl.

myrinii (Fr.) Stein, Aspicilia = Aspilidea myrinii
(Fr.) Hafellner

myrinii (Fr.) Hafellner, Aspilidea

myrinii (Fr.) Tuck., Lecanora = Aspilidea myrinii
(Fr.) Hafellner

myrinii var. subadunans Vain., Lecanora = Aspilidea
myrinii (Fr.) Hafellner

myrinii Fr., Parmelia = Aspilidea myrinii (Fr.)
Hafellner

myriocarpa (DC.) De Not, Buellia = Amandinea
punctata (Hoffm.) Coppins & Scheid.

**myriocarpa V.Wirth & Vězda ex Coppins,
Micarea**

myriococcum (Ach.) Th.Fr., Lempholemma =
Lempholemma polyanthes (Bernh.) Malme

myriococcum (Ach.) Körb., Physma =
Lempholemma polyanthes (Bernh.) Malme

myriosora Erichsen, Pertusaria = Ochrolechia
arborea (Kreyer) Almb.

**myrmecina (Ach.) Bendiksby & Timdal,
Carbonicola**

myrtillicola Erichsen, Bacidia = Fellhaneropsis
myrtillicola (Erichsen) Sérus. & Coppins

myrtillicola (Erichsen) Hafellner, Fellhanera =
Fellhaneropsis myrtillicola (Erichsen) Sérus. &
Coppins

**myrtillicola (Erichsen) Sérus. & Coppins,
Fellhaneropsis**

nadvornikiana Gyeln., Alectoria = Bryoria
nadvornikiana (Gyeln.) Brodo & D.Hawksw.

**nadvornikiana (Gyeln.) Brodo & D.Hawksw.,
Bryoria**

nadvornikiana (Vězda) Hertel, Porpidia

nadvornikii Servít, Gongylia = Sagediopsis barbara
(Th.Fr.) R.Sant. & Triebel

nadvornikii Servít, Gongylia = Porpidia rugosa
(Körb.) Coppins & Fryday

naegelii (Hepp) Zahlbr., Bacidia = Lecania naegelii
(Hepp) Diederich & van den Boom

**naegelii (Hepp) Diederich & van den Boom,
Lecania**

nana Tibell, Chaenothecopsis

nanellus Ohlert, Endococcus

nanodes Tuck., Stereocaulon

nansenii Lyngé, Lecidea = Lecanora formosa (Bagl.
& Carestia) Knoph & Leuckert

nanum (Ach.) Nyl. ex Lamy, Leprocaulon =
Leprocaulon quisquiliare (Leers) M.Choisy

nanum (Ach.) Ach., Stereocaulon = Leprocaulon
quisquiliare (Leers) M.Choisy

navarrensis Etayo, Lecanora = Cliostomum flavidulum Hafellner & Kalb

nebulosa (Hoffm.) E.Tripp & Lendemer, Fuscopannaria

nebulosa (Hoffm.) Gyeln., Moelleropsis = Fuscopannaria nebulosa (Hoffm.) E.Tripp & Lendemer

nebulosa (Hoffm.) Nyl., Pannaria = Fuscopannaria nebulosa (Hoffm.) E.Tripp & Lendemer

neckeri Hepp ex Müll.Arg., Peltigera

neglecta auct., Cladonia = Cladonia pyxidata (L.) Hoffm.

neglecta (Nyl.) Hue, Crocynia = Lepraria neglecta (Nyl.) Lettau

neglecta Henssen, Cryptothele

neglecta (Räsänen) Räsänen, Lecanora = Lecanora umbrosa Degel.

neglecta auct., Lecidea = Rhymbocarpus neglectus (Vain.) Diederich & Etayo

neglecta (Nyl.) Lettau, Lepraria

neglecta (Vain.) Triebel & Rambold, Llimoniella = Rhymbocarpus neglectus (Vain.) Diederich & Etayo

neglecta Vain., Nesolechia = Rhymbocarpus neglectus (Vain.) Diederich & Etayo

neglecta Savić & Tibell, Polyblastia

neglecta, Pyrenula = Pyrenula occidentalis (R.C. Harris) R.C.Harris

neglectula Nyl., Arthonia

neglectula, Arthonia = Arthonia almquistii Vain.

neglectum Desm., Epicoccum = Epicoccum nigrum Link

neglectus (Vain.) Diederich & Etayo, Rhymbocarpus

nemoxyna (Ach.) Arnold, Cladonia = Cladonia rei Schaer.

neopolydactyla (Gyeln.) Gyeln., Peltigera

neosquamulosa Aptroot & Herk, Bacidia = Bacidina neosquamulosa (Aptroot & Herk) S.Ekman

neosquamulosa (Aptroot & Herk) S.Ekman, Bacidina

neottizans (Leight.) Zopf, Leptosphaeria = Pyrenidium actinellum Nyl.

nephaea Sommerf., Lecanora = Protoparmelia nephaea (Sommerf.) R.Sant.

nephaea (Sommerf.) R.Sant., Protoparmelia

nephromae R.Sant. ined., Corticifraga = Protounguicularia nephromatis (Zhurb. & Zavarzin) Huhtinen et al.

nephromae Zhurb. & Zavarzin, Unguiculariopsis = Protounguicularia nephromatis (Zhurb. & Zavarzin) Huhtinen et al.

nephromaria var. lepidiota H.Olivier, Arthonia = Arthonia lepidiota (H.Olivier) R.Sant.

nephromaria var. stereocaulina Ohlert., Arthonia = Arthonia stereocaulina (Ohlert) R.Sant.

nephromatis Suija & Pérez-Ortega, Abrothallus

nephromatis (Zhurb. & Zavarzin) Huhtinen et al., Protounguicularia

nephromeum (Norman) R.Sant., Plectocarpon

nephromiaria (Linds.) Vouaux, Sphaerulina = Stigmatidium peltideae (Vain.) R.Sant.

nericiensis Hellb., Microglæna = Protothelenella corrosa (Körb.) H.Mayrhofer & Poelt

nervosa Räsänen, Ramalina = Ramalina sinensis Jatta

neuschildii (Körb.) Th.Fr., Catillaria = Catinaria neuschildii (Körb.) P.James

neuschildii (Körb.) P.James, Catinaria

nidarosiensis (Kindt) P.M.Jørg. & Vězda, Belonia = Gyalecta nidarosiensis (Kindt) Baloch & Lücking

nidarosiensis (Kindt) Baloch & Lücking, Gyalecta

nidarosiensis Kindt, Microglæna = Gyalecta nidarosiensis (Kindt) Baloch & Lücking

nidulans (Stenh.) Arnold, Polyblastia

nidulifera Norrl., Alectoria = Bryoria furcellata (Fr.) Brodo & D.Hawksw.

nigella Coppins, Micarea

niger auct., *Cystocoleus* = *Cystocoleus ebeneus* (Dillwyn) Thwaites

nigerrima H.Magn., *Lecidea* = *Lecidea promixta* Nyl.

nigra Tibell, Chaenothecopsis

nigrata (Nyl.) Lönnrot, *Polyblastia* = *Agonimia gelatinosa* (Ach.) M.Brand & Diederich

nigratula (Nyl.) Vain., Porina

nigratula Nyl., *Verrucaria* = *Porina nigratula* (Nyl.) Vain.

nigrescens (Huds.) DC., Collema

nigrescens Pers., Verrucaria

nigrescens f. *tectorum* (A.Massal.) Coppins & Aptroot, *Verrucaria* = *Verrucaria tectorum* (A. Massal.) Körb.

nigricans (Ach.) Nyl., Alectoria

nigricans Nyl., Cetraria

nigricans (Ach.) Halonen et al., *Gowardia* = *Alectoria nigricans* (Ach.) Nyl.

nigricans (Flörke) Moberg, Phaeophyscia

nigricans (Flörke) Stizenb., *Physcia* = *Phaeophyscia nigricans* (Flörke) Moberg

nigripes (Nyl.) Trass, *Cladonia* = *Cladonia gracilis* (L.) Willd. subsp. *elongata* (Wulfen) Vain.

nigritella (Lettau) Henssen, *Gonohymenia* = *Thallinocarpon nigritellum* (Lettau) P.M.Jørg.

nigritella (Lettau) Moreno & Egea, *Lichinella* = *Thallinocarpon nigritellum* (Lettau) P.M.Jørg.

nigritella Lettau, *Thyrea* = *Thallinocarpon nigritellum* (Lettau) P.M.Jørg.

nigritellum (Nyl.) Vouaux, Merismatium

nigritellum (Lettau) P.M.Jørg., Thallinocarpon

nigritula (Nyl.) Mudd, *Buellia* = *Buellia schaeereri* De Not.

nigritula Nyl., *Lecidea* = *Buellia schaeereri* De Not.

nigroblastidiata Arup et al., Parvoplaca

nigroclavata (Nyl.) Schuler, Catillaria

nigroclavata Nyl., *Lecidea* = *Catillaria nigroclavata* (Nyl.) Schuler

nigrocruenta (DC.) Hertel, *Huilia* = *Porpidia macrocarpa* (DC.) Hertel & A.J.Schwab

nigrocruenta Anzi, *Lecidea* = *Porpidia macrocarpa* (DC.) Hertel & A.J.Schwab

nigrocruentum (Anzi) Hertel, *Haploclaron* = *Porpidia macrocarpa* (DC.) Hertel & A.J.Schwab

nigrofusca Servit, Verrucaria

nigrogrisea Nyl., *Lecidea* = *Lecidea siderolithica* Müll.Arg.

nigroleprosa (Vain.) H.Magn., *Lecidea* = *Miriquidica nigroleprosa* (Vain.) Hertel & Rambold var. *nigroleprosa*

nigroleprosa (Vain.) Hertel & Rambold, Miriquidica

nigroleprosa (Vain.) Hertel & Rambold var. liljenstroemii (Du Rietz) Owe-Larss. & Rambold, Miriquidica

nigroleprosa (Vain.) Hertel & Rambold var. nigroleprosa, Miriquidica

nigroumbrina Servit, Verrucaria

nigrum Schaer., *Calicium* = *Chaenothecopsis pusilla* (Ach.) A.F.W.Schmidt

nigrum auct., *Calicium* = *Calicium abietinum* Pers.

nigrum auct., *Calicium* = *Calicium glaucellum* Ach.

nigrum auct., *Calicium* = *Calicium denigratum* (Vain.) Tibell

nigrum auct., *Coenogonium* = *Cystocoleus ebeneus* (Dillwyn) Thwaites

nigrum Link, Epicoccum

nigrum (Huds.) Gray, Placynthium

nigrum var. *tantaleum* (Hepp) Arnold, *Placynthium* = *Placynthium tantaleum* (Hepp) Hue

nimbosa (Fr.) H.Mayrhofer & Poelt, Phaeorrhiza

nimbosa (Fr.) Th.Fr., *Rinodina* = *Phaeorrhiza*

nimbosa (Fr.) H.Mayrhofer & Poelt

nimbosa var. *sphaerocarpa* Th.Fr., *Rinodina* = *Phaeorrhiza sareptana* (Tomin) H.Mayrhofer & Poelt var. *sphaerocarpa* (Th.Fr.) H.Mayrhofer & Poelt

nitens Th.Fr., *Biatorrella* = *Strangospora moriformis* (Ach.) Stein

nitens (Pers.) Ach., Lecanora = Protoparmelia nitens (Pers.) Sancho & A.Crespo

nitens (Anders) Gyeln., Peltigera = Peltigera degenii Gyeln.

nitens (Pers.) Sancho & A.Crespo, Protoparmelia

nitescens (Salwey) Mudd, Arthopyrenia

nitida Sommerf., Lecidea = Lecanora phaeostigma (Körb.) Almb.

nitida (Weigel) Ach., Pyrenula

nitida var. macrospora Degel., Pyrenula = Pyrenula macrospora (Degel.) Coppins & P.James

nitida var. nitidella (Flörke ex Schaer.) Schaer., Pyrenula = Pyrenula nitidella (Flörke ex Schaer.) Müll.Arg.

nitida (Mont.) R.Heim, Stenocybe

nitidella (Flörke ex Schaer.) Müll.Arg., Pyrenula

nitidula (Th.Fr.) Vain., Alectoria = Bryoria nitidula (Th.Fr.) Brodo & D.Hawksw.

nitidula (Th.Fr.) Brodo & D.Hawksw., Bryoria

nitidula Fr., Lecidea = Porpidia crustulata (Ach.) Hertel & Knoph

nitrophila H.Magn., Acarospora

nitschkeana (J.Lahm ex Rabenh.) Zahlbr., Bacidia = Micarea nitschkeana (J.Lahm ex Rabenh.) Harm.

nitschkeana var. perpusilloides Erichsen., Bacidia = Fellhaneropsis myrtillicola (Erichsen) Sérus. & Coppins

nitschkeana J.Lahm ex Rabenh., Bilimbia = Micarea nitschkeana (J.Lahm ex Rabenh.) Harm.

nitschkeana (J.Lahm ex Rabenh.) Harm., Micarea

nitschkei (Körb.) Rehm, Beloniella = Skyttea nitschkei (Körb.) Sherwood et al.

nitschkei (Körb.) Triebel, Rhymbocarpus = Skyttea nitschkei (Körb.) Sherwood et al.

nitschkei (Körb.) Sherwood et al., Skyttea

nivalis (L.) Randlane & Saag, Allocetraria = Flavocetraria nivalis (L.) Kärnefelt & A.Thell

nivalis (Bagl. & Carestia) Hertel, Buellia = Diplotomma alboatrum (Hoffm.) Flot.

nivalis (Körb.) Th.Fr., Caloplaca

nivalis (Körb.) Lettau, Candelariella = Caloplaca

nivalis (Körb.) Th.Fr.

nivalis (L.) Ach., Cetraria = Flavocetraria nivalis (L.) Kärnefelt & A.Thell

nivalis (L.) Kärnefelt & A.Thell, Flavocetraria

nivalis Anzi, Lecidea = Farnoldia micropsis (A. Massal.) Hertel

nivalis J.R.Laundon, Lepraria

nivalis (L.) Divakar et al., Nephromopsis = Flavocetraria nivalis (L.) Kärnefelt & A.Thell

nivalis Th.Fr., Placographa = Lithographa tesserata (DC.) Nyl.

nivalis (Anzi) Hertel, Tremolecia = Farnoldia micropsis (A.Massal.) Hertel

nivaria (Arnold) Rambold ex Hertel & Schuhwerk, Carbonea

nivaria (Arnold) Dalla Torre & Sarnth., Lecidea = Carbonea nivaria (Arnold) Rambold ex Hertel & Schuhwerk

nivaria Arnold, Lecidella = Carbonea nivaria (Arnold) Rambold ex Hertel & Schuhwerk

nivea (Hoffm.) Arnold, Coniocybe = Sclerophora pallida (Pers.) Y.J.Yao & Spooner

nivea var. farinacea (Chevall.) Sydow, Coniocybe = Sclerophora farinacea (Chevall.) Chevall.

nivea (Hoffm.) Tibell, Sclerophora = Sclerophora pallida (Pers.) Y.J.Yao & Spooner

nivea Hoffm., Trichia = Sclerophora pallida (Pers.) Y.J.Yao & Spooner

niveoatra (Borrer) J.R.Laundon, Opegrapha

nivescens Nyl., Lecanora

njuljae (H.Magn.) Räsänen, Aspicilia

njuljae H.Magn., Lecanora = Aspicilia njuljae (H. Magn.) Räsänen

nodulosa (Lyng.) H.Magn., Buellia = Tetramelas concinnus (Th.Fr.) Giralt

nolens Nyl., Pertusaria = Pertusaria chiodectonoides Bagl. ex A.Massal.

nordinii Savić & Tibell, Polyblastia

nordlandica (H.Magn.) Degel., Aspicilia

nordlandica (Th.Fr.) Kistenich et al., Kiliasia

nordlandica H.Magn., Lecanora = Aspicilia

nordlandica (H.Magn.) Degel.

nordlandica Th.Fr., Toninia = Kiliasia nordlandica (Th.Fr.) Kistenich et al.

normalis Gyeln., Cyanisticta = Pseudocyphellaria intricata (Delise) Vain.

normandinae R.Sant. & D.Hawksw., Capronia

normanii H.Magn., Acarospora = Acarospora

nitrophila H.Magn.

normoerica (Gunnerus) Lyngae, Cetraria = Cornicularia normoerica (Gunnerus) Du Rietz

normoerica (Gunnerus) Du Rietz, Cornicularia

norrlandica H.Magn., Rinodina = Rinodina trevisanii (Hepp) Körb.

norrlandica (H.Magn.), Verrucaria = Dermatocarpon norrlandicum H.Magn.

norrlandicum H.Magn., Dermatocarpon

norrlinii Vain., Cladonia = Cladonia acuminata (Ach.) Norrl.

norrlinii Gyeln., Nephroma = Nephroma resupinatum (L.) Ach.

norrlinii Vain., Physcia = Phaeophyscia ciliata (Hoffm.) Moberg

norrlinii Vain., Porina = Porina glaucocinerea (Nyl.) Vain.

norvegica (Lyngae) Du Rietz, Cetraria = Platismatia norvegica (Lyngae) W.L.Culb. & C.F.Culb.

norvegica Tønsberg & Holien, Cladonia

norvegica Gyeln., Cyanisticta = Pseudocyphellaria norvegica (Gyeln.) P.James

norvegica H.Magn., Gongylia = Sagediopsis barbara (Th.Fr.) R.Sant. & Triebel

norvegica Tønsberg, Lecanora

norvegica Sommerf., Lecidea = Toninia squalida (Ach.) A.Massal.

norvegica Norman, Phlyctis = Thelenella modesta (Nyl.) Nyl.

norvegica (Lyngae) W.L.Culb. & C.F.Culb., Platismatia

norvegica (Gyeln.) P.James, Pseudocyphellaria

norvegicum Coppins & Tønsberg, Arthothelium

norvegicum Vain. ex Hav., Calicium = Chaenothecopsis debilis (Sm.) Tibell

norvegicum Breuss, Catapyrenium = Placidium norvegicum (Breuss) Breuss

norvegicum (Breuss) Breuss, Placidium

norvegicum Räsänen, Rhizocarpon

notarisii (A.Massal.) Forssell, Anema = Anema nummularium (Dufour ex Durieu & Mont.) Nyl. ex Forssell

notarisii (Tul.) M.Prieto & Wedin, Calicium

notarisii (Tul.) Blomb. & Forssell, Cyphelium = Calicium notarisii (Tul.) M.Prieto & Wedin

notarisii A.Massal., Omphalaria = Anema nummularium (Dufour ex Durieu & Mont.) Nyl. ex Forssell

notarisii (Tul.) Vain., Pseudacodium = Calicium notarisii (Tul.) M.Prieto & Wedin

notha Ach., Opegrapha = Alyxoria varia (Pers.) Ertz & Tehler

nothella Nyl., Opegrapha = Phacographa zwackhii (A.Massal ex Zwackh) Hafellner

nowakii Czarnota & Coppins, Micarea

novochlorophaea (Sipman) Brodo & Ahti, Cladonia

nubila Norman, Biatorina = Catillaria chalybeia (Borrer) A.Massal. var. chloropoliza (Nyl.) H.Kilias

nudum Vain., Didymocyrtidium = Arthopyrenia elachistotera (Nyl.) H.Riedl

nugaria Nyl., Lecidea

nummularium (Dufour ex Durieu & Mont.) Nyl. ex Forssell, Anema

nuoljae H.Magn., Dermatocarpon

nuoljae H.Magn., Lecidea = Lecanora formosa (Bagl. & Carestia) Knoph & Leuckert

nuoljae (H.Magn.), Verrucaria = Dermatocarpon
nuoljae H.Magn.

nuriense (Nav.-Ros. & Breuss) Breuss,
Involucropyrenium

nylanderi (Anzi) Th.Fr., Lecidea

nylanderi (Hepp) Lönnr., Thelidium =
Collemopsidium caesium (Nyl.) Coppins & Aptroot

nylanderi (Hepp) Lönnr., Thelidium = Thelidium
pyrenophorum (Ach.) Mudd

nylanderiana A.Massal., Lecania

nylanderiana (Zahlbr.) H.Magn., Umbilicaria

nyssaegena Ellis & Everh., Zignoella =
Anisomeridium polypori (Ellis & Everh.) M.E.Barr

nyssigenum (Ellis & Everh.) R.C.Harris,
Anisomeridium = Anisomeridium polypori (Ellis &
Everh.) M.E.Barr

oakesiana Tuck., Cetraria = Usnocetraria oakesiana
(Tuck.) M.J.Lai & J.C.Wei

**oakesiana (Tuck.) M.J.Lai & J.C.Wei,
Usnocetraria**

oasis (A.Massal.) Szatala, Caloplaca = Flavoplaca
oasis (A.Massal.) Arup et al.

oasis (A.Massal.) Arup et al., Flavoplaca

obducens K.G.W.Lång, Gongylia = Gyalecta
incarnata (Th.Fr. & Graewe) Baloch & Lücking

obducens Nyl., Pertusaria = Pertusaria coriacea (Th.
Fr.) Th.Fr.

obductilis (Nyl.) Zschacke, Verrucaria = Verrucaria
viridula (Schröd.) Ach.

obliterans (Nyl.) Blomb. & Forssell, Caloplaca =
Leproplaca obliterans (Nyl.) Arup et al.

obliterans (Nyl.) Arup et al., Leproplaca

obliterans Nyl., Placodium = Leproplaca obliterans
(Nyl.) Arup et al.

obliterata (Pers.) Malme, Caloplaca = Flavoplaca
marina (Wedd.) Arup et al.

obnascens (Nyl.) H.Olivier, Rinodina

obnigrescens Nyl., Verrucaria

obnubila Th.Fr. & Hellb., Lecidea = Miriquidica
obnubila (Th.Fr. & Hellb.) Hertel & Rambold

**obnubila (Th.Fr. & Hellb.) Hertel & Rambold,
Miriquidica**

obnubila auct. non (Th.Fr. & Hellb.) Hertel &
Rambold, Miriquidica = Miriquidica griseoatra
(Flot.) Hertel & Rambold

obscura (H.Magn.) T.Müll., Aspicilia = Aspicilia
laevata (Ach.) Arnold

obscura H.Magn., Lecanora = Aspicilia laevata
(Ach.) Arnold

obscura (Ehrh. ex Humb.) Fűrnr., Physcia =
Phaeophyscia orbicularis (Neck.) Moberg

obscura auct., Physcia = Phaeophyscia ciliata
(Hoffm.) Moberg

obscura Th.Fr., Verrucaria

obscurascens (H.Magn.) Clauzade & Rondon,
Aspicilia = Sagedia zonata Ach.

obscurascens H.Magn., Lecanora = Sagedia zonata
Ach.

obscurata (Fr.) Arnold, Aspicilia = Sagedia zonata
Ach.

obscurata (Sommerf.) Zahlbr., Bacidia =
Mycobilimbia tetramera (De Not.) Vitik. et al. ex
Hafellner & Türk

obscurata f. frigoris (Nilson) Zahlbr., Bacidia =
Bilimbia microcarpa (Th.Fr.) Th.Fr.

obscurata (Sommerf.) Th.Fr., Bilimbia =
Mycobilimbia tetramera (De Not.) Vitik. et al. ex
Hafellner & Türk

obscurata (Fr.) Nyl., Lecanora = Sagedia zonata Ach.

obscurata var. fuscocinerea f. orphina Vain., Lecidea
= Rhizocarpon reductum Th. Fr.

obscurata (Sommerf.) Rehm, Mycobilimbia =
Mycobilimbia tetramera (De Not.) Vitik. et al. ex
Hafellner & Türk

obscurata (Ach.) Bitter, Parmelia = Hypogymnia
austerodes (Nyl.) Räsänen

obscurata auct., Parmelia = Hypogymnia bitteri (Lyngé) Ahti

obscurata var. isidiata (Lyngé) H.Magn., Parmelia = Hypogymnia austerodes (Nyl.) Räsänen

obscurata (Vain.) Vain., Polyblastia = Polyblastia fuscoargillacea Anzi

obscurata sensu Nádv., Sphinctrina = Sphinctrina leucopoda Nyl.

obscuratum auct., Rhizocarpon = Rhizocarpon reductum Th. Fr.

obscuratum spp. roridulum Th.Fr., Rhizocarpon = Rhizocarpon roridulum (Th.Fr.) H.Olivier

obscuratum f. lavatum (Fr.) Th.Fr., Rhizocarpon = Rhizocarpon lavatum (Fr.) Hazsl.

obscurella (J.Lahm ex Körb.) Th.Fr., Caloplaca

obscurella (Sommerf.) Hedl., Lecanora = Lecanora phaeostigma (Körb.) Almb.

obscurella (Sommerf.) Nyl., Lecidea = Lecanora phaeostigma (Körb.) Almb.

obscurior Triebel, Arthonia

obscuripes Nyl., Coniocybe = Sclerophora coniophaea (Norman) J.Mattsson & Middelb.

obscurissima Nyl., Lecidea = Orphniospora mosigii (Körb.) Hertel & Rambold

obscuroides (Linds.) Triebel & Rambold, Lichenochora

obsoleta Arnold, Polyblastia = Polyblastia albida Arnold

obtecta (Vain.) Hav., Aspicilia = Ionaspis obtecta (Vain.) R.Sant.

obtecta Kajanus, Buellia = Buellia disciformis (Fr.) Mudd

obtecta (Vain.) Poelt & Vězda, Hymenelia = Ionaspis obtecta (Vain.) R.Sant.

obtecta (Vain.) R.Sant., Ionaspis

obtecta Vain., Lecanora = Ionaspis obtecta (Vain.) R. Sant.

obtegens (Th.Fr.) Hertel, Trapelia

obtusata (Arnold) Bitter, Ramalina

obtusatica Tønsberg, Lepraria = Andreiomyces obtusaticus (Tønsberg) Hodkinson & Lendemer

obtusaticus (Tønsberg) Hodkinson & Lendemer, Andreiomyces

obvallata (H.Magn.) Vitik. et al., Aspicilia = Aspicilia verrucigera Hue

obvallata H.Magn., Lecanora = Aspicilia verrucigera Hue

occidentalis (E.Dahl) Kristinsson, Peltigera

occidentalis, Peltigera = Peltigera kristinssonii Vitik.

occidentalis (R.C.Harris) R.C.Harris, Pyrenula

occulta (Körb.) Sheard, Rinodina

occultata (Bagl.) Otálora et al., Rostania

occultatum Bagl., Collema = Rostania occultata (Bagl.) Otálora et al.

occultatum Bagl. var. occultatum, Collema = Rostania occultata (Bagl.) Otálora et al.

occultatum var. populinum (Th.Fr.) Degel., Collema = Rostania occultata (Bagl.) Otálora et al.

occultatum (Bagl.) Zahlbr., Leptogium = Rostania occultata (Bagl.) Otálora et al.

ocellata (Flot.) Körb., Buellia

ocellata Erichsen, Physcia = Phaeophyscia endophoenicea (Harm.) Moberg

ocellata (Th.Fr.) Forssell, Psorotichia = Thelignya lignyota (Wahlenb.) P.M.Jørg. & Henssen

ocellata Th.Fr., Pyrenopsis = Thelignya lignyota (Wahlenb.) P.M.Jørg. & Henssen

ocellata (Hoffm.) Arnold, Rinodina = Rinodina lecanorina (A.Massal.) A.Massal.

ocellatum (Körb.) Trevis., Cyphelium = Pseudothelomma ocellatum (Körb.) M.Prieto & Wedin

ocellatum (Körb.) M.Prieto & Wedin, Pseudothelomma

ocellatum (Körb.) Tibell, Thelomma = Pseudothelomma ocellatum (Körb.) M.Prieto & Wedin

ocellatus (Th.Fr.) Henssen, Porocyphus = Thelignya lignyota (Wahlenb.) P.M.Jørg. & Henssen

ocelliformis (Nyl.) Arnold, Biatora

ocelliformis Nyl., Lecidea = Biatora ocelliformis (Nyl.) Arnold

ochracea (Nyl.) H.Magn., Ionaspis = Hymenelia heteromorpha (Kremp.) Lutzoni

ochrobaeum Norman ex Zschacke, Thelidium = Thelidium acrotellum Arnold

ochrocheila (Nyl.) Ertz & Tehler, Alyxoria

ochrocheila Nyl., Opegrapha = Alyxoria ochrocheila (Nyl.) Ertz & Tehler

ochrochlora Flörke, Cladonia

ochrococca Nyl., Lecidea = Protoparmelia ochrococca (Nyl.) P.M.Jørg. et al.

ochrococca (Nyl.) P.M.Jørg. et al., Protoparmelia

ochroidea (Ach.) Nyl., Lecanora = Lecanora subcarnea (Lilj.) Ach.

ochrolechia Diederich et al., Odontotrema = Sphaeropezia ochrolechia (Diederich et al.) Baloch & Wedin

ochrolechia R.Sant. (ined.), Pronectria

ochrolechia (Diederich et al.) Baloch & Wedin, Sphaeropezia

ochrolemma (Vain.) Hue, Aspicilia = Porpidia ochrolemma (Vain.) Brodo & R.Sant.

ochrolemma (Vain.) Gowan & Ahti, Hymenelia = Porpidia ochrolemma (Vain.) Brodo & R.Sant.

ochrolemma (Vain.) Brodo & R.Sant., Porpidia

ochroleuca (Hoffm.) A.Massal., Alectoria

ochroleuca (Körb.) Tibell, Chaenothecopsis

ochroleucum Körb., Calicium = Chaenothecopsis ochroleuca (Körb.) Tibell

ochroleucum (Neck.) J.R.Laundon, Haematomma

ochroleucum (Neck.) J.R.Laundon var. ochroleucum, Haematomma

ochroleucum (Neck.) J.R.Laundon var. porphyrium (Pers.) J.R.Laundon, Haematomma

ochromicra (Nyl.) Hue, Ionaspis = Hymenelia rhodopis (Sommerf.) Lutzoni

ochrophanes Lettau, Diploschistes = Diploschistes gypsaceus (Ach.) Zahlbr.

ochrophora (Nyl.) Arnold, Biatorella = Piccolia ochrophora (Nyl.) Hafellner

ochrophora Nyl., Lecidea = Piccolia ochrophora (Nyl.) Hafellner

ochrophora (Nyl.) Hafellner, Piccolia

ochrophora (Nyl.) R.A.Anderson, Strangospora = Piccolia ochrophora (Nyl.) Hafellner

ochrostoma (Borrer ex Leight.) Trevis., Verrucaria

ochrothalamia Nyl., Melaspilea

ochrotropa Nyl., Lecidea = Rhizocarpon reductum Th. Fr.

ochrotropum (Nyl.) A.L.Sm., Rhizocarpon = Rhizocarpon reductum Th. Fr.

octomela (Norman) Erichsen, Pertusaria

octospora Arnold, Solorinia

oculata (Dicks.) Th.Fr., Pertusaria

odontella (Ach.) Ach., Cetraria

odontella (Ach.) Westend., Cornicularia = Cetraria odontella (Ach.) Ach.

odontellum (Ach.) R.Howe, Coelocaulon = Cetraria odontella (Ach.) Ach.

odora (Ach.) Stein, Ionaspis

oederi Gunnerus, Lichen = Rhizocarpon grande (Flörke) Arnold

oederi (Weber) Körb., Rhizocarpon

oleagina (Harm.) Coppins, Protoparmelia

oligospora (Nyl.) Arnold, Acarospora

oligospora (Körb.) Th.Fr., Caloplaca = Bryoplaca tetraspora (Nyl.) Søchting et al.

oligospora (Vain.) Sacc. & D.Sacc., Leptosphaeria = Pyrenidium actinellum Nyl.

oligospora Vain., Xenosphaeria = Pyrenidium actinellum Nyl.

oligotropha J.R.Laundon, Lecidea = Placynthiella oligotropha (J.R.Laundon) Coppins & P.James

oligotropha (J.R.Laundon) Coppins & P.James, Placynthiella

oligotropha (J.R.Laundon) Clauzade & Cl.Roux, Saccomorpha = Placynthiella oligotropha (J.R. Laundon) Coppins & P.James

olivacea Räsänen, Alectoria = Bryoria fremontii (Tuck.) Brodo & D.Hawksw.

olivacea (Fr.) Zahlbr., Catillaria = Solenopsora
olivacea (Dufour) H.Kilias

olivacea (Hoffm.) A.Massal., Lecidea = Lecidella elaeochroma (Ach.) M.Choisy

olivacea (L.) Essl., Melanelia = Melanohalea
olivacea (L.) O.Blanco et al.

olivacea (L.) O.Blanco et al., Melanohalea

olivacea (L.) Ach., Parmelia = Melanohalea olivacea (L.) O.Blanco et al.

olivacea var. septentrionalis Lynge., Parmelia = Melanohalea septentrionalis (Lynge) O.Blanco et al.

olivacea (Borrer) A.L.Sm., Porina

olivacea (Dufour) H.Kilias, Solenopsora

olivaceae R.Sant. & Tønberg, Arthrorhaphis

olivacella (Nyl.) Zahlbr., Lecania

olivacella Servít, Verrucaria = Verrucaria inaspecta Servít

olivaceobrunnea C.W.Dodge & G.E.Baker, Rinodina

olivaceonitens Vain., Thelidium

olivaceum (Fr.) Körb., Thelidium

olivaria sensu Th.Fr., Parmelia = Cetrelia olivetorum (Nyl.) W.L.Culb. & C.F.Culb.

olivascens Th.Fr., Lecidea

olivatra Norman, Arthopyrenia = Naetrocymbe rhypona (Ach.) R.C.Harris

olivatra (Norman) H.Magn., Leptorhaphis = Naetrocymbe rhypona (Ach.) R.C.Harris

olivetorina (Zopf) Sandst., Parmelia = Pseudevernia furfuracea (L.) Zopf

olivetorina (Zopf) Zopf, Pseudevernia = Pseudevernia furfuracea (L.) Zopf

olivetorum (Nyl.) W.L.Culb. & C.F.Culb., Cetrelia

olivetorum Nyl., Parmelia = Cetrelia olivetorum (Nyl.) W.L.Culb. & C.F.Culb.

olivetorum Räsänen, Rhizocarpon = Rhizocarpon geographicum (L.) DC. subsp. kittilense (Räsänen) Ahti

olivieri (Vouaux) Sacc., Guignardia = Telogalla olivieri (Vouaux) Nik.Hoffm. & Hafellner

olivieri Vouaux, Laestadia = Telogalla olivieri (Vouaux) Nik.Hoffm. & Hafellner

olivieri (Vouaux) Nik.Hoffm. & Hafellner, Telogalla

omphalarioides (Anzi) Arnold, Lempholemma = Staurolemma omphalarioides (Anzi) P.M.Jørg. & Henssen

omphalarioides (Anzi) Arnold, Physma = Staurolemma omphalarioides (Anzi) P.M.Jørg. & Henssen

omphalarioides (Anzi) P.M.Jørg. & Henssen, Staurolemma

omphalodes (L.) Ach., Parmelia

omphalodes f. corticola Koskinen, Parmelia = Parmelia omphalodes (L.) Ach. subsp. omphalodes

omphalodes (L.) Ach. subsp. discordans (Nyl.) Skult, Parmelia

omphalodes var. discordans (Nyl.) H.Magn., Parmelia = Parmelia omphalodes (L.) Ach. subsp. discordans (Nyl.) Skult

omphalodes var. insensitiva H.Magn., Parmelia = Parmelia omphalodes (L.) Ach. subsp. discordans (Nyl.) Skult

omphalodes (L.) Ach. subsp. omphalodes, Parmelia

omphalodes (L.) Ach. subsp. pinnatifida (Kurok.) Skult, Parmelia = Parmelia pinnatifida Kurok.

onegensis Vain., Verrucaria

opegraphae D.Hawksw., Laeviomycetes = Lichenodiplis opegraphae (D.Hawksw.) Diederich

opegraphae (D.Hawksw.) Diederich, Lichenodiplis

opegraphella Nyl. ex Rothr., Xylographa

ophiospora (Hellb.) Th.Fr., Bacidia =
Scoliciosporum ophiosporum (Hellb.) Hav.

ophiospora (Lettau) Baloch & Lücking, Gyalecta

ophiospora Lettau, Pachyphiale = Gyalecta
ophiospora (Lettau) Baloch & Lücking

ophiosporum Hellb., Scaldium = Scoliciosporum
ophiosporum (Hellb.) Hav.

ophiosporum (Hellb.) Hav., Scoliciosporum

ophthalmiza (Nyl.) Hafellner, Lepra

ophthalmiza (Nyl.) Nyl., Pertusaria = Lepra
ophthalmiza (Nyl.) Hafellner

opperiens (Hellb.) Zahlbr., Catillaria

opulentum (Th.Fr. & Almq. ex Th.Fr.) Vouaux,
Discothecium = Polycoccum opulentum (Th.Fr. &
Almq. ex Th.Fr.) Arnold

**opulentum (Th.Fr. & Almq. ex Th.Fr.) Arnold,
Polycoccum**

opulentus Th.Fr. & Almq. ex Th.Fr., Endococcus =
Polycoccum opulentum (Th.Fr. & Almq. ex Th.Fr.)
Arnold

opuntioides (Vill.) Kistenich et al., Thalloidima

opuntioides (Vill.) Timdal, Toninia = Thalloidima
opuntioides (Vill.) Kistenich et al.

orae Orange, Hydropunctaria

orae-frigidae R.Sant., Lecanora

orbata (Ach.) Vain., Rinodina = Rinodina turfacea
(Wahlenb.) Körb.

orbicularis (Schaer.) Vain., Lecanora

orbicularis (Neck.) Moberg, Phaeophyscia

orbicularis (Neck.) Poetsch, Physcia = Phaeophyscia
orbicularis (Neck.) Moberg

orbicularis auct., Staurothele = Staurothele
guestphalica (J.Lahm ex Körb.) Arnold

orbiculata (Schreb.) Zahlbr., Pertusaria = Lepra
albescens (Huds.) Hafellner

orbillifera (Almq.) Sundin, Arthonia

orbilliferum (Almq.) Hasse, Arthothelium = Arthonia
orbillifera (Almq.) Sundin

orculariopsis H.Mayrhofer, Rinodina = Rinodina
sacula H.Mayrhofer & Poelt

orculata Poelt & M.Steiner, Rinodina

oregana (Gyeln.) Søchting et al., Xanthomendoza

oregonensis H.Magn., Ochrolechia

oreina (Ach.) Norman, Dimelaena

oreina (Ach.) A.Massal., Rinodina = Dimelaena
oreina (Ach.) Norman

oreites Vain., Lecidea = Rhizocarpon alpicola (Anzi)
Rabenh.

oreites (Vain.) Zahlbr., Rhizocarpon = Rhizocarpon
alpicola (Anzi) Rabenh.

ornamentata D.Hawksw., Nectriella = Pronectria
ornamentata (D.Hawksw.) Lowen

ornamentata (D.Hawksw.) Lowen, Pronectria

ornamentata (D.Hawksw.) Rossmann & Lowen,
Xenonectriella = Pronectria ornamentata (D.
Hawksw.) Lowen

ornata (Sommerf.) Hertel, Trapelia = Trapelia
glebulosa (Sm.) J.R.Laundon

oroarctica (Krog) Goward, Brodoa

oroarctica Krog, Hypogymnia = Brodoa oroarctica
(Krog) Goward

**oropensis (Cesati) D.Hawksw. & Piroz.,
Paranectria**

orosthea (Ach.) Ach., Lecanora

orosthea (Ach.) Ach., Lecidea = Lecanora orosthea
(Ach.) Ach.

orosthea var. sublivescens Nyl., Lecidea = Lecanora
sublivescens (Nyl.) Arnold

orphnum (Vain.) Vain., Rhizocarpon =
Rhizocarpon lavatum (Fr.) Hazsl.

orphnum (Vain.) Zahlbr., Rhizocarpon =
Rhizocarpon reductum Th. Fr.

orustense (Erichsen) A.Fletcher, Pyrenocollema =
Collemopsidium halodytes (Nyl.) Grube & B.D.Ryan

orustensis Erichsen, Arthopyrenia = Collemopsidium
halodytes (Nyl.) Grube & B.D.Ryan

orvoi Timdal et al., Nephroma

osloënsis Th.Fr., Lecidea = Micarea osloënsis (Th. Fr.) Hedl.

osloënsis (Th.Fr.) Hedl., Micarea

osloënsis H.Magn., Verrucaria = Verrucaria macrostoma Dufour ex DC.

ostreata (Hoffm.) Schaer., Lecidea = Hypocenomycet scalaris (Ach.) M.Choisy

ostrobotniae Gyeln., Alectoria = Bryoria capillaris (Ach.) Brodo & D.Hawksw.

ostrobottniae H.Magn., Stereocaulon = Stereocaulon nanodes Tuck.

ostrogothensis Nyl., Lecidea = Frutidella furfuracea (Anzi) M.Westb. & M.Svensson

othmarbreussii Pykälä & Myllys, Verrucaria

oulankaensis Pykälä & Myllys, Atla

oulankaensis Pykälä & Myllys, Verrucaria

oxfordensis Fink in J.Hedrick, Caloplaca = Rufoplaca oxfordensis (Fink) Arup et al.

oxfordensis (Fink) Arup et al., Rufoplaca

oxydata (A.Massal.) A.Massal., Rinodina

oxyspora Almq., Arthonia = Hymenobia aporea (Nyl.) D.Hawksw. & O.E.Erikss.

oxyspora (Tul.) Nyl., Lecidea = Nesolechia oxyspora (Tul.) A.Massal.

oxyspora (Nyl.) Körb., Leptorhaphis = Leptorhaphis epidermidis (Ach.) Th.Fr.

oxyspora (Tul.) A.Massal., Nesolechia

oxyspora var. defecta ined., Nesolechia = Nesolechia oxyspora (Tul.) A.Massal.

oxyspora var. fusca (Triebe & Rambold) Diederich, Nesolechia = Nesolechia fusca (Triebe & Rambold) Pérez-Ortega

oxyspora (Tul.) Triebe & Rambold, Phacopsis = Nesolechia oxyspora (Tul.) A.Massal.

oxyspora (Tul.) Triebe & Rambold var. defecta Triebe & Rambold, Phacopsis = Nesolechia oxyspora (Tul.) A.Massal.

oxyspora var. fusca Triebe & Rambold, Phacopsis = Nesolechia fusca (Triebe & Rambold) Pérez-Ortega

oxytona (Ach.) A.Massal., Acarospora = Pleopsidium flavum (Bellardi) Körb.

paanaënsis Räsänen & Laurila, Lecidea = Miriquidica paanaënsis (Räsänen & Laurila) Andreev

paanaënsis (Räsänen & Laurila) Andreev, Miriquidica

pachycarpa (Delise ex Duby) A.Massal., Bombyliospora = Megalospora pachycarpa (Delise ex Duby) H.Olivier

pachycarpa (Delise ex Duby) H.Olivier, Megalospora

pachyderma (Arnold) Arnold, Verrucaria

pachylepidea (Hellb.) Poelt, Squamarina

pacificica M.Westb. & Arup, Candelaria

padi Rabenh., Arthopyrenia = Naetrocymbe punctiformis (Pers.) R.C.Harris

padicola (Vain.) Zahlbr., Arthopyrenia = Arthopyrenia analepta (Ach.) A.Massal.

padicola Vain., Didymella = Arthopyrenia analepta (Ach.) A.Massal.

paleacea Fr., Parmelia = Psoroma paleaceum (Fr.) Timdal & Tønsberg

paleaceum (Fr.) Timdal & Tønsberg, Psoroma

palicei Savić & Tibell, Atla

pallens (Kullh.) Zahlbr., Bacidia = Biatora pallens (Kullh.) Printzen

pallens (Kullh.) Printzen, Biatora

pallens Kullh., Bilimbia = Biatora pallens (Kullh.) Printzen

pallens (Kullh.) S.Ekman, Cliostomum = Biatora pallens (Kullh.) Printzen

pallens (Nyl.) Harm., Xylographa

pallescens Nyl., Calicium = Mycocalicium subtile (Pers.) Szatala

pallescens f. betulinum Nyl., Calicium = Phaeocalicium betulinum (Nyl.) Tibell

pallescens var. interruptum Nyl., Calicium = Phaeocalicium interruptum (Nyl.) Tibell

pallescens (Nyl.) Vain., Mycocalicium =
Mycocalicium subtile (Pers.) Szatala

pallescens (L.) A.Massal., Ochrolechia

pallescens var. parella (L.) Körb., Ochrolechia =
Ochrolechia parella (L.) A.Massal.

pallescens (Hoffm.) Zahlbr., Parmeliopsis =
Imshaugia aleurites (Ach.) S.L.F.Mey.

pallida (Schreb.) Rabenh, Lecanora = Lecanora
albella (Pers.) Ach.

pallida Th.Fr., Lecidea = Pilophorus dovrensis (Nyl.)
Timdal et al.

pallida H.Magn., Rinodina = Rinodina gennarii Bagl.

pallida (Pers.) Y.J.Yao & Spooner, Sclerophora

pallidum auct., Endocarpon = Endocarpon
adscendens (Anzi) Müll.Arg.

pallidum G.Salisb., Thelocarpon

pallidus (Th.Fr.) Timdal, Pilophorus = Pilophorus
dovrensis (Nyl.) Timdal et al.

palmatum (Huds.) Mont., Leptogium = Scytinium

palmatum (Huds.) Gray

palmatum (Huds.) Gray, Scytinium

panaeola (Ach.) Hertel & Brodo, Amygdalaria

panaeola (Ach.) Hertel, Huilia = Amygdalaria

panaeola (Ach.) Hertel & Brodo

panaeola Ach., Lecidea = Amygdalaria panaeola
(Ach.) Hertel & Brodo

panaeola var. elegans Th.Fr., Lecidea = Amygdalaria
elegantior (H.Magn.) Hertel & Brodo

panaeola var. vulgaris Th.Fr., Lecidea =
Amygdalaria panaeola (Ach.) Hertel & Brodo

pannaeiae Zhurb. & Grube, Arthonia

pannaeiae Matzer & Hafellner, Roselliniella

pannariellum (Nyl.) H.Magn., Placynthium

pannariellum var. rosulans (Th.Fr.) Degel.,
Placynthium = Placynthium rosulans (Th.Fr.) Zahlbr.

pannariellum Nyl., Pterygium = Placynthium
pannariellum (Nyl.) H.Magn.

pannariiformis (Arnold) Vain., Parmelia =
Montanelia panniformis (Nyl.) Divakar et al.

panniformis (Nyl.) Essl., Melanelia = Montanelia
panniformis (Nyl.) Divakar et al.

panniformis (Nyl.) Divakar et al., Montanelia

panniformis (Nyl.) Vain., Parmelia = Montanelia
panniformis (Nyl.) Divakar et al.

pantherina (Ach.) Th.Fr., Lecidea = Lecidea lapicida
(Ach.) Ach. var. pantherina Ach.

pantherina var. sudetica (Körb.) Vain., Lecidea =
Lecidea sudetica Körb.

panyrga (Ach.) Hafellner, Lepra

panyrga (Ach.) A.Massal., Pertusaria = Lepra

panyrga (Ach.) Hafellner

papillaria (Ehrh.) Hoffm., Cladonia = Pycnothelia
papillaria (Ehrh.) Dufour

papillaria (Ehrh.) Dufour, Pycnothelia

papillata (Sommerf.) Tuck., Buellia = Tetramelas

papillatus (Sommerf.) Kalb

papillata var. nodulosa Lyngé, Buellia = Tetramelas
concinnus (Th.Fr.) Giralt

papillata var. subviridescens Ny. ex Th.Fr., Lecidea
= Tetramelas concinnus (Th.Fr.) Giralt

papillatus (Sommerf.) Kalb, Tetramelas

papillosa Ach., Verrucaria = Verrucaria viridula
(Schrad.) Ach.

papillosa Ach., Verrucaria

papulare (Fr.) Arnold, Thelidium

papulosa (Anzi) Vain., Parmelia = Melanohalea
exasperatula (Nyl.) O.Blanco et al.

papyraceum (Hoffm.) De Not., Nephroma =
Nephroma resupinatum (L.) Ach.

paracarpa Nyl., Lecidea = Stereocaulon cumulatum
(Sommerf.) Timdal

paraclitica Nyl., Lecidea

paradoxa Linds., Pertusaria = Unguiculariopsis
cribriformis (Norman) Alstrup & D.Hawksw.

paradoxum Bornet, Spilonema

parallela (Ach.) Ach., Opegrapha = Xylographa
parallela (Ach.:Fr.) Fr.

parallela (Ach.) Fr., Stictis = *Xylographa parallela* (Ach.:Fr.) Fr.

parallela (Ach.:Fr.) Fr., Xylographa

parallela var. *difformis* Vain., *Xylographa* = *Xylographa difformis* (Vain.) Vain.

parallelum (Ach.) Wahlenb., *Hysterium* = *Xylographa parallela* (Ach.:Fr.) Fr.

parallelus Ach., Lichen = *Xylographa parallela* (Ach.:Fr.) Fr.

parameca (A.Massal.) Körb., Leptorhaphis

paraphana Nyl., *Lecidea* = *Adelolecia kolaënsis* (Nyl.) Hertel & Rambold

pararupetris Servít, Verrucaria

parasema (Ach.) De Not., *Buellia* = *Buellia disciformis* (Fr.) Mudd

parasema subsp. *dives* Th.Fr., *Buellia* = *Buellia dives* (Th.Fr.) Th.Fr.

parasema var. *leptocline* sensu Nyl., Räsänen, H. Magn., *Buellia* = *Buellia disciformis* (Fr.) Mudd

parasema var. *muscorum* (Schaer.) Th.Fr., *Buellia* = *Tetramelas insignis* (Nägeli ex Hepp) Kalb

parasema var. *papillata* (Sommerf.) Th.Fr., *Buellia* = *Tetramelas papillatus* (Sommerf.) Kalb

parasema var. *saprophylla* (Ach.) Körb., *Buellia* = *Buellia erubescens* Arnold

parasema auct., *Lecidea* = *Lecidella elaeochroma* (Ach.) M.Choisy

parasema subsp. *incongrua* Nyl., *Lecidea* = *Lecidella stigmata* (Ach.) Hertel & Leuckert

parasemella (Nyl.) Houmeau & Cl.Roux, *Hafellnera* = *Schaereria parasemella* (Nyl.) Lumbsch

parasemella Nyl., *Lecidea* = *Schaereria parasemella* (Nyl.) Lumbsch

parasemella (Nyl.) Lumbsch, Schaereria

parasitaster (Bagl. & Carestia) D.Hawksw., *Chaenothecopsis* = *Chaenothecopsis pusilla* (Ach.) A.F.W.Schmidt

parasitica (Hoffm.) Hoffm., Cladonia

parasitica (Flörke) Zopf, *Dactylospora* = *Sclerococcum parasiticum* (Flörke) Ertz & Diederich

parasitica (A.Massal.) H.Olivier, Opegrapha

parasitica (Lönnr.) Arnold, Phaeospora

parasitica H.Mayrhofer & Poelt, Rinodina

parasiticum D.Hawksw., *Lichenocodium* = *Lichenocodium lecanorae* (Jaap) D.Hawksw.

parasiticum (Flörke) Ertz & Diederich, Sclerococcum

paratropa Nyl., *Lecidea* = *Micarea paratropa* (Nyl.) Alstrup

paratropa (Nyl.) Alstrup, Micarea

paraxanthodes Nyl., Opegrapha

parella (L.) A.Massal., Ochrolechia

parella var. *tumidula* auct., *Ochrolechia* = *Ochrolechia pallescens* (L.) A.Massal.

parella var. *turneri* (Sm.) Arnold, *Ochrolechia* = *Ochrolechia turneri* (Sm.) Hasselrot

parellaria (Nyl.) Arnold, *Dactylospora* = *Sclerococcum parellarium* (Nyl.) Ertz & Diederich

parellarium (Nyl.) Ertz & Diederich, Sclerococcum

parietina (L.) Th.Fr., Xanthoria

parietina var. *aureola* f. *congranulata* (Cromb.) de Lesd., *Xanthoria* = *Xanthoria calcicola* Oxner

parietinaria Linds., *Microthelia* = *Sphaerellothecium parietinarium* (Linds.) Hafellner & V.John

parietinarium (Linds.) Hafellner & V.John, Sphaerellothecium

parietinum Ach., *Calicium* = *Mycocalicium subtile* (Pers.) Szatala

parietinum var. *cinerascens* Nyl., *Calicium* = *Chaenothecopsis viridialba* (Kremp.) A.F.W.Schmidt

parietinum (Ach.) D.Hawksw., *Mycocalicium* = *Mycocalicium subtile* (Pers.) Szatala

parietinus, *Endococcus* = *Sphaerellothecium parietinarium* (Linds.) Hafellner & V.John

parile (Ach.) Ach., Nephroma

parile Ach., *Nephromium* = *Nephroma parile* (Ach.) Ach.

parisiensis Hue, *Lecanora*

parmeliae Diederich & Etayo, Sphaerellothecium

parmeliarum (Sommerf.) Arnold, Abrothallus

parmeliarum var. peyritschii Stein, Abrothallus =
Abrothallus peyritschii (Stein) Kotte

parmeliarum f. prodiens (Harm.) Vouaux,
Abrothallus = Abrothallus prodiens (Harm.)
Diederich & Hafellner

parmeliarum Hafellner, Arthophacopsis

parmigera (J.Steiner) Vězda & Poelt, Bagliettoa

parmigera J.Steiner, Verrucaria = Bagliettoa
parmigera (J.Steiner) Vězda & Poelt

parmigerella (Zahlbr.) Vězda & Poelt, Bagliettoa

parmigerella Zahlbr., Verrucaria = Bagliettoa
parmigerella (Zahlbr.) Vězda & Poelt

paroicum Ach., Calicium = Calicium corynellum
(Ach.) Ach.

paroicum subsp. excertum Nyl., Calicium =
Chaenothecopsis hospitans (Th.Fr.) Tibell

paroicum Vain., Strongyleuma = Chaenothecopsis
hospitans (Th.Fr.) Tibell

paroptoides Nyl., Lecanora

parva Hafellner & Ihlen, Cercidospora

parva Henssen, Pharcidia = Stigmatidium parvum
(Henssen) Diederich

parvula Du Rietz, Lecanora = Bellemerea sanguinea
(Kremp.) Hafellner & Cl.Roux

parvula P.M.Jørg., Parmeliella

parvula Vain., Physcia = Phaeophyscia nigricans
(Flörke) Moberg

parvulum Arnold, Thelidium = Thelidium minutulum
Körb.

parvum Tibell, Calicium

parvum Degel., Collema = Scytinium parvum
(Degel.) Otálora et al.

parvum Runemark, Rhizocarpon

parvum (Degel.) Otálora et al., Scytinium

parvum (Henssen) Diederich, Stigmatidium

paschale (L.) Hoffm., Stereocaulon

paschale var. alpinum (Laurer) Du Rietz,
Stereocaulon = Stereocaulon alpinum Laurer

paschale var. grande H.Magn., Stereocaulon =
Stereocaulon grande (H.Magn.) H.Magn.

paschale f. taeniarum H.Magn., Stereocaulon =
Stereocaulon taeniarum (H.Magn.) Kivistö

pastillifera (Harm.) R.Schub. & Klem., Parmelia =
Parmelina pastillifera (Harm.) Hale

pastillifera (Harm.) Hale, Parmelina

**patavina (A.Massal.) Knoph & Leuckert,
Lecidella**

patellarioides f. hapalocheila Lettau, Lecanactis =
Bactrospora brodoi Egea & Torrente

patellulata (Nyl.) Zahlbr., Allarthonia = Arthonia
patellulata Nyl.

patellulata Nyl., Arthonia

paucula Nyl., Lecidea = Brianaria lutulata (Nyl.) S.
Ekman & M.Svensson

paulii Poelt, Caloplaca = Variospora paulii (Poelt)
Arup et al.

paulii (Poelt)Arup et al., Variospora

paupera (Th.Fr.) Zahlbr., Lecanora

pauperula Th.Fr., Lecidea = Lecidea praenubila
Nyl.

pauxilla Vězda & Vivant, Absconditella

peculiaris H.Magn., Buellia = Sclerococcum
athallinum (Müll.Arg.) Ertz & Diederich

pedata (Stenh.) R.Sant., Sphinctrina = Sphinctrina
leucopoda Nyl.

pedicellata Hue, Pannaria = Erioderma pedicellatum
(Hue) P.M.Jørg.

pedicellatum (Hue) P.M.Jørg., Erioderma

pelidna (Ach.) Fryday & L.Arcadia, Amandinea

peliocarpa Anzi, Bilimbia = Micarea peliocarpa
(Anzi) Coppins & R.Sant.

peliocarpa (Anzi) Coppins & R.Sant., Micarea

pelicypha (Wahlenb.) Th.Fr., Acarospora =
Acarospora squamulosa (Schrad.) Trevis.

pelioocypha Wahlenb., Parmelia = Acarospora squamulosa (Schrad.) Trevis.

peliscypha (Wahlenb.) Th.Fr., Acarospora = Acarospora squamulosa (Schrad.) Trevis.

pelobotrya (Wahlenb.) Th.Fr., Aspicilia = Amygdalaria pelobotryon (Wahlenb.) Norman

pelobotrya (Wahlenb.) Sommerf., Lecanora = Amygdalaria pelobotryon (Wahlenb.) Norman

pelobotrya (Wahlenb.) Leight., Lecidea = Amygdalaria pelobotryon (Wahlenb.) Norman

pelobotryon (Wahlenb.) Norman, Amygdalaria

peloclitoides Vain., Verrucaria = Thelidium minimum (A.Massal. ex Körb.) Arnold

pelodes (Körb. ex Stein) T.L.Ellis, Lemmopsis

peltideae Vain., Pharcidia = Stigmatidium peltideae (Vain.) R.Sant.

peltideae (Vain.) R.Sant., Stigmatidium

peltigerae (Fuckel) G.Winter, Acanthostigma = Knufia peltigerae (Fuckel) Réblová & Unter.

peltigerae DC., Aecidium = Illosporium carneum Fr.

peltigerae (Fuckel) D.Hawksw., Capronia = Knufia peltigerae (Fuckel) Réblová & Unter.

peltigerae (Nyl.) D.Hawksw. & R.Sant., Corticifraga

peltigerae Fuckel, Cryptomyces = Corticifraga fuckelii (Rehm) D.Hawksw. & R.Sant.

peltigerae Fuckel, Didymosphaeria = Polycoccum peltigerae (Fuckel) Vězda

peltigerae Westend., Fusarium

peltigerae (Fuckel) D.Hawksw., Herpotrichiella = Knufia peltigerae (Fuckel) Réblová & Unter.

peltigerae (P.Karst.) D.Hawksw., Karsteniomyces = Scutula miliaris (Wallr.) Trevis.

peltigerae (Fuckel) Réblová & Unter., Knufia

peltigerae (Fuckel) Riedl, Leptosphaerulina

peltigerae M.S.Christ., Nanostictis

peltigerae Lowen et al., Neobarya

peltigerae (Mont.) Theiss. & Syd., Neolamyia

peltigerae Keissl., Ovularia = Refractohilum

peltigerae (Keissl.) D.Hawksw.

peltigerae Punithal. & Spooner, Phaeoseptoria

peltigerae (P.Karst.) D.Hawksw., Phoma

peltigerae (Nyl.) Rehm, Phragmonaevia = Corticifraga peltigerae (Nyl.) D.Hawksw. & R.Sant.

peltigerae P.Karst., Phyllosticta = Phoma peltigerae (P.Karst.) D.Hawksw.

peltigerae Zhurb. et al., Plectocarpon

peltigerae Fuckel, Pleospora = Leptosphaerulina peltigerae (Fuckel) Riedl

peltigerae (Fuckel) Vězda, Polycoccum

peltigerae (Keissl.) D.Hawksw., Refractohilum

peltigerae Fuckel, Sphaeria = Leptosphaerulina peltigerae (Fuckel) Riedl

peltigerae P.Karst., Stagonopsis = Scutula miliaris (Wallr.) Trevis.

peltigerae Th.Fr., Arthonia

peltigerae G.Merr. ex Vouaux, Leptosphaeria = Pyrenidium actinellum Nyl.

peltigericola D.Hawksw., Actinopeltis = Lichenopeltella peltigericola (D.Hawksw.) R.Sant.

peltigericola Vain., Bacidia = Bacidina egenula (Nyl.) Vězda

peltigericola (D.Hawksw.) U.Braun, Hawksworthiana

peltigericola (D.Hawksw.) R.Sant., Lichenopeltella

peltigericola (D.Hawksw.) P.M.Kirk & Spooner, Micropeltopsis = Lichenopeltella peltigericola (D.Hawksw.) R.Sant.

peltigericola (D.Hawksw.) Etayo, Niesslia

peltigericola (Nyl.) Theiss. & Syd., Norrlinia

peltigericola (Nyl.) Vain., Pleosphaeropsis = Norrlinia peltigericola (Nyl.) Theiss. & Syd.

peltigericola (Nyl.) Vouaux, Pleosphaerulina = Norrlinia peltigericola (Nyl.) Theiss. & Syd.

peltigericola (D.Hawksw.) M.E.Barr,
Raciborskomyces = Niesslia peltigericola (D.
Hawksw.) Etayo

peltigericola D.Hawksw., Ramularia =
Hawksworthiana peltigericola (D.Hawksw.) U.Braun

peltigericola D.Hawksw., Wentomyces = Niesslia
peltigericola (D.Hawksw.) Etayo

peltigericola Nyl., Verrucaria = Norrlinia
peltigericola (Nyl.) Theiss. & Syd.

peltigerina (Almq.) H.Magn., Allarthonia = Arthonia
peltigerina (Almq.) H.Olivier

peltigerina (Peck) Redhead et al., Arrhenia

peltigerina (Almq.) H.Olivier, Arthonia

peltigerina (Peck) Collin in Collin & Lauron,
Omphalina = Arrhenia peltigerina (Peck) Redhead et
al.

pelveti (Hepp) Almq., Arthonia

peminoso (Nyl.) Zahlbr., Polyblastia

pendulina Motyka, Usnea = Usnea barbata (L.)
Weber ex F.H.Wigg.

pennina (Schaer.) Kistenich et al., Kiliasia

pennina Schaer., Lecidea = Kiliasia pennina
(Schaer.) Kistenich et al.

pennina (Schaer.) Gyeln., Toninia = Kiliasia pennina
(Schaer.) Kistenich et al.

peralbida (Th.Fr.) H.Olivier, Lecidea = Lecidea
swartzioidea Nyl.

percrenata Nyl., Lecidea = Trapeliopsis
glaucolepidea (Nyl.) Gotth.Schneid.

percrenata (Nyl.) Gotth.Schneid., Trapeliopsis =
Trapeliopsis glaucolepidea (Nyl.) Gotth.Schneid.

percrocata (Arnold) J.Steiner, Caloplaca

peregrina (Flot.) Arnold, Phaeospora = Merismatium
peregrinum (Flot.) Triebel

peregrinum (Flot.) Triebel, Merismatium

perfida Malme, Caloplaca = Athallia cerinella (Nyl.)
Arup et al.

perfidiosa (Nyl.) Räsänen, Biatorella = Stereocaulon
cumulatum (Sommerf.) Timdal

perfidiosa (Nyl.) Räsänen, Tromera = Stereocaulon
cumulatum (Sommerf.) Timdal

perfidiosa Nyl., Lecidea = Stereocaulon cumulatum
(Sommerf.) Timdal

pergibbosa (H.Magn.) Räsänen, Aspicilia

pergibbosa H.Magn., Lecanora = Aspicilia
pergibbosa (H.Magn.) Räsänen

pergranulosa (Räsänen) Vers., Ochrolechia =
Ochrolechia androgyna (Hoffm.) Arnold

pergranulosa (Räsänen) Verseghe, Ochrolechia =
Ochrolechia mahuensis Räsänen

periclea Ach., Lecanora = Schismatomma pericleum
(Ach.) Branth & Rostr.

**pericleum (Ach.) Branth & Rostr.,
Schismatomma**

pericleum var. farinosum (Stenh.) Lettau,
Schismatomma = Schismatomma pericleum (Ach.)
Branth & Rostr.

perisidiosa Erichsen, Physcia = Physconia perisidiosa
(Erichsen) Moberg

perisidiosa (Erichsen) Moberg, Physconia

**perlata (Haugan & Timdal) M.P.Andreev,
Calvitimela**

perlata (Haugan & Timdal) R.Sant., Calvitimela =
Calvitimela perlata (Haugan & Timdal) M.P.Andreev

perlata H.Magn., Lecidea = Calvitimela perlata
(Haugan & Timdal) M.P.Andreev

perlata Ach., Parmelia = Parmotrema perlatum
(Huds.) M.Choisy

perlatum (Huds.) M.Choisy, Parmotrema

perleprosa Räsänen, Lecanora = Ochrolechia arborea
(Kreyer) Almb.

perlutescens Nyl., Lecidea = Tetramelas concinnus
(Th.Fr.) Giralt

perminuta (Nyl.) Vain., Phaeospora

perminutum Keissler, Thelidium

perminutus Nyl., Endococcus = Phaeospora

perminuta (Nyl.) Vain.

permiscens (Nyl.) Hellb., Cryptothele

permutata sensu H.Magn., Aspicilia

pernigra Hertel, Lecidea = Lecidea promixta Nyl.

perobscurans Nyl., Lecidea = Frutidella furfuracea (Anzi) M.Westb. & M.Svensson

peronella (Ach.) Tibell, Coniocybe = Sclerophora

peronella (Ach.) Tibell

peronella (Ach.) Tibell, Sclerophora

perpityrea Erichsen, Phlyctis = Phlyctis argena (Spreng.) Flot.

perplexans auct. non Stirton, Usnea = Usnea lapponica Vain.

perplexans Stirton, Usnea

perpruinosa Fröberg, Lecanora = Myriolecis

perpruinosa (Fröberg) Śliwa et al.

perpruinosa (Fröberg) Śliwa et al., Myriolecis

perpusilla auct. scand., Bacidia = Scoliciosporum umbrinum (Ach.) Arnold

perpusillum auct. scand., Scoliciosporum = Scoliciosporum umbrinum (Ach.) Arnold

perpusillus Nyl., Endococcus

perpusillus (Nyl.) Arnold, Tichothecium = Endococcus perpusillus Nyl.

perquisita Norman, Cryptothele = Trimmatothele

perquisita (Norman) Norman ex Zahlbr.

perquisita (Norman) Norman ex Zahlbr., Trimmatothele

perquisita (Norman) Ertz & Diederich, Verrucaria = Trimmatothele perquisita (Norman) Norman ex Zahlbr.

perradiata (Nyl.) Hue, Aspicilia

perradiata Lynge, Staurothele = Staurothele clopima (Wahlenb.) Th.Fr.

perrugata (Nyl.) Elix, Neofuscelia = Xanthoparmelia pulla (Ach.) O.Blanco et al.

persicina (Körb.) Zahlbr., Porina = Pseudosagedia linearis (Leight.) Hafellner & Kalb

persimilis (Th.Fr.) Mig., Lecanora = Myriolecis

persimilis (Th.Fr.) Śliwa et al.

persimilis Nyl., Lecidea = Rhizocarpon petraeum (Wulfen) A.Massal.

persimilis (Th.Fr.) Śliwa et al., Myriolecis

persistens Nyl., Lecidea = Bryobilimbia hypnorum (Lib.) Fryday et al.

personata Hulting, Blastenia

persoonii A.Massal., Arthopyrenia = Naetrocymbe punctiformis (Pers.) R.C.Harris

persoonii (Ach.) Ach., Opegrapha = Opegrapha rupestris Pers.

perspinulosa Nyl., Ephebe

pertusa (Schrank) Stein, Menegazzia = Menegazzia terebrata (Hoffm.) A.Massal.

pertusa (Schrank) Schaer., Parmelia = Menegazzia terebrata (Hoffm.) A.Massal.

pertusa (Weigel) Tuck., Pertusaria

pertusa (Weigel) Tuck. var. leiotera (Nyl.) Zahlbr., Pertusaria

pertusa (Weigel) Tuck. var. pertusa, Pertusaria

pertusariae in Keissler 1923, Karschia = Sclerococcum homoclinellum (Nyl.) Ertz & Diederich

pertusariae Diederich et al., Rhymbocarpus

pertusariae Diederich, Tremella

pertusariella (Nyl.) Norman, Microglæna = Thelenella pertusariella (Nyl.) Vain.

pertusariella (Nyl.) Vain., Thelenella

pertusariella Nyl., Verrucaria = Thelenella pertusariella (Nyl.) Vain.

pertusariicola (Willey ex Tuck.) Hafellner, Dactylospora = Sclerococcum pertusariicola (Tuck.) Ertz & Diederich

pertusariicola (Nyl.) D.Hawksw., Laeviomyces = Lichenodiplis pertusariicola (Nyl.) Diederich

pertusariicola (Nyl.) D.Hawksw., Lichenonium = Lichenodiplis pertusariicola (Nyl.) Diederich

pertusariicola (Nyl.) Diederich, Lichenodiplis

pertusariicola Coppins & P.James, Opegrapha

pertusariicola Lowen, Pronectria

pertusariicola (Tuck.) Ertz & Diederich,
Sclerococcum

pertusariicola D.Hawksw. & H.Mayrhofer,
Taeniolella

pertusarioides Degel., Lecanora = Tephromela
pertusarioides (Degel.) Hafellner & Cl.Roux

pertusarioides (Degel.) Hafellner & Cl.Roux,
Tephromela

pertusus L., Lichen = Pertusaria pertusa (Weigel)
Tuck. var. pertusa

petractoides (P.M.Jørg. & Brodo) Parmen et al.,
Crutarndina

petractoides P.M.Jørg. & Brodo, Thelotrema =
Crutarndina petractoides (P.M.Jørg. & Brodo)
Parmen et al.

petraea (Ach.) Nyl., Lithographa = Lithographa
tesserata (DC.) Nyl.

petraea (Wulfen) V.Wirth, Siegertia = Rhizocarpon
petraeum (Wulfen) A.Massal.

petraeum (Wulfen) A.Massal., Rhizocarpon

petraeum sensu Korb., Rhizocarpon = Rhizocarpon
petraeum (Wulfen) A.Massal.

petraeum sensu Korb., Rhizocarpon = Rhizocarpon
oederi (Weber) Korb.

petraeum sensu Korb., Rhizocarpon = Rhizocarpon
lavatum (Fr.) Hazsl.

petraeum sensu Korb., Rhizocarpon = Rhizocarpon
grande (Flörke) Arnold

petri D.Hawksw. & Poelt, Cheiromycina

petri H.Mayrhofer & Poelt, Protothelenella

petrosa Arnold, Lecidea = Farnoldia jurana (Schaer.)
Hertel

petrosa (Ach.) Zahlbr., Verrucaria

petsamoensis var. savonica Räsänen, Diplophragmia
= Lecidella stigmatea (Ach.) Hertel & Leuckert

petsamoensis var. savonica Räsänen, Diplophragmia
= Arthonia intexta Almq.

peyritschii (Stein) Kotte, Abrothallus

peziza (Mont.) Anzi, Gyalecta

pezizicola Diederich & R.C.Harris, Abrothallus

peziziformis (With.) J.R.Laundon, Cladonia

pezizooides (Weber) Trevis., Pannaria =
Protopannaria pezizooides (Weber) P.M.Jørg. & S.
Ekman

pezizooides (Weber) P.M.Jørg. & S.Ekman,
Protopannaria

pezizoideum (Ach.) Korb., Lopadium

pezizoideum var. coralloideum (Nyl.) Th.Fr.,
Lopadium = Lopadium coralloideum (Nyl.) Lyngé

pezizoideum var. disciforme (Flot.) Korb., Lopadium
= Lopadium disciforme (Flot.) Kullh.

pezizoideum var. muscicola (Sommerf.) Th.Fr. p.p.
sensu Th. Fries 1874, Lopadium = Lopadium
pezizoideum (Ach.) Korb.

pezizoideum var. muscicola p.p. sensu Th. Fries,
Lopadium = Lopadium coralloideum (Nyl.) Lyngé

pezizoideum (Ach.) Vain., Sporopodium =
Lopadium pezizoideum (Ach.) Korb.

pezizoideum subsp. coralloideum (Nyl.) Vain.,
Sporopodium = Lopadium coralloideum (Nyl.)
Lyngé

pezizoideum var. disciforme (Flot.) Vain.,
Sporopodium = Lopadium disciforme (Flot.) Kullh.

pezizoideum var. muscicola (Sommerf.) Vain.,
Sporopodium = Lopadium pezizoideum (Ach.) Korb.

phacodes Korb., Bacidia = Bacidina phacodes
(Korb.) Vězda

phacodes (Korb.) Vězda, Bacidina

phaea (Tuck.) J.W.Thomson, Physcia

phaea (Ach.) R.C.Harris, Strigula

phaeenterodes Nyl., Lecidea = Porpidia rugosa
(Korb.) Coppins & Fryday

phaeobaea (Norman) Zahlbr., Allarthonia = Arthonia
phaeobaea (Norman) Norman

phaeobaea (Norman) Norman, Arthonia

phaeobola Tuck., Lecanora = Protoparmelia
ochrococca (Nyl.) P.M.Jørg. et al.

phaeocarpa, Rinodina = Phaeorrhiza nimbose (Fr.)
H.Mayrhofer & Poelt

phaeocarpella (Nyl.) Zahlbr., Caloplaca

phaeocephala (Turner) Th.Fr., Chaenotheca

phaeocephalum var. flavum Ach. ex Nyl., Calicium = Chaenotheca phaeocephala (Turner) Th.Fr.

phaeocephalum var. obscurum Nyl., Calicium = Chaenotheca phaeocephala (Turner) Th.Fr.

phaeolepis Vain., Rhizocarpon = Rhizocarpon subgeminatum Eitner

phaeonesos Poelt, Protoparmelia

phaeopelidna Vain., Lecidea

phaeophysciae Grube & Matzer, Arthonia

phaeophysciae D.Hawksw., Taeniolella

phaeophysciae A.Nordin & Tibell, Tetramelas

phaeophysciae Diederich & M.S.Christ., Tremella

phaeops (Nyl.) Motyka, Hymenelia = Lecidea

phaeops Nyl.

phaeops (Nyl.) Th.Fr., Lecanora = Lecidea phaeops Nyl.

phaeops Nyl., Lecidea

phaeostigma Körb., Biatora = Lecanora phaeostigma (Körb.) Almb.

phaeostigma (Körb.) Almb., Lecanora

phaeostigmella Nyl., Lecidea

phaeostigmella H.Magn., Rinodina = Rinodina septentrionalis Malme

phaeotera (Nyl.) Räsänen, Biatora = Lecidea phaeotera Nyl.

phaeotera Nyl., Lecidea

phalerosporum (Vain.) Vain., Rhizocarpon = Rhizocarpon leptolepis Anzi

pharcidia (Ach.) Malme, Buellia = Diplotomma pharcidium (Ach.) Choisy

pharcidium (Ach.) Choisy, Diplotomma

philippea (Mont.) A.Massal., Catillaria = Kiliasia philippea (Mont.) Hafellner

philippea (Mont.) Hafellner, Kiliasia

philippea (Mont.) Timdal, Toninia = Kiliasia

philippea (Mont.) Hafellner

phlogina (Ach.) Flag., Caloplaca = Polycauliona

phlogina (Ach.) Arup et al.

phlogina (Ach.) Arup et al., Polycauliona

phylliscina Nyl., Lecidea = Porpidia macrocarpa (DC.) Hertel & A.J.Schwab

phyllophora Hoffm., Cladonia

phymatodes (Ach.) Erichsen, Pertusaria = Pertusaria coccodes (Ach.) Nyl.

physaroides (Opiz) Kistenich et al., Thalloidima

physaroides (Opiz) Zahlbr., Toninia = Thalloidima

physaroides (Opiz) Kistenich et al.

physiacearum (Diederich) Millanes & Wedin, Heterocephalacia

physiacearum Diederich, Syzygospora = Heterocephalacia physiacearum (Diederich) Millanes & Wedin

physciae (Kalchbr.) Sacc., Coniosporium = Xanthoriicola physciae (Kalchbr.) D.Hawksw.

physciae (Kalchbr.) D.Hawksw., Xanthoriicola

physciaria Nyl., Lecidea = Phacothecium varium (Tul.) Trevis.

physciaria (Nyl.) H.Olivier, Leciographa = Phacothecium varium (Tul.) Trevis.

physciaria (Nyl.) D.Hawksw. & Coppins, Opegrapha = Phacothecium varium (Tul.) Trevis.

physciicola (Nyl.) Vouaux., Discothecium = Sphaerellothecium parietinarium (Linds.) Hafellner & V.John

physciicola (Ihlen & R.Sant.) Hafellner, Lichenochora

physciicola Keissl., Phoma = Didymocyrtis epiphyscia Ertz & Diederich

physciicola Ihlen & R.Sant., Telogalla = Lichenochora physciicola (Ihlen & R.Sant.) Hafellner

physconiarum Hafellner & Matzer, Reconditella

physodes (L.) Nyl., Hypogymnia

physodes (L.) Ach., Parmelia = Hypogymnia

physodes (L.) Nyl.

picea (Dicks.) Nyl., Lecanora = Protoparmelia badia (Hoffm.) Hafellner

picea auct., Lecanora = Protoparmelia memnonia Hafellner & Türk.

picea (Dicks.) Hafellner, Protoparmelia = Protoparmelia badia (Hoffm.) Hafellner

picea auct., Protoparmelia = Protoparmelia memnonia Hafellner & Türk.

piceicola Holien & Tønsberg, Cliostomum

piceicola (Nyl.) Vězda & Poelt, Gyalideopsis

piceum Zschacke ex H.Magn., Thelidium

piggotii Berk. & Broome, Dothidea = Homostegia piggotii (Berk. & Broome) P.Karst.

piggotii (Berk. & Broome) P.Karst., Homostegia

pilati (Hepp) Hertel & Hafellner, Adeolecia

pilati (Hepp) Körb., Lecidea = Adeolecia pilati (Hepp) Hertel & Hafellner

pileatum Ach., Stereocaulon

pilophori Zhurb. & Triebel, Lasiosphaeriopsis

pilosellum Breuss, Catapyrenium = Placidium pilosellum (Breuss) Breuss

pilosellum (Breuss) Breuss, Placidium

pilosoides Servít, Verrucaria

pilularis (Körb.) Hepp, Biatora = Mycobilimbia pilularis (Körb.) Hafellner & Türk

pilularis (Körb.) Hafellner & Türk, Mycobilimbia

pinastri Tibell, Calicium

pinastri (Scop.) Gray, Cetraria = Vulpicida pinastri (Scop.) J.-E.Mattsson & M.J.Lai

pinastri (Schaer.) H.Magn., Lecanora = Lecanora pulicaris (Pers.) Ach.

pinastri (Scop.) Hale, Tuckermannopsis = Vulpicida pinastri (Scop.) J.-E.Mattsson & M.J.Lai

pinastri (Scop.) J.-E.Mattsson & M.J.Lai, Vulpicida

pinastri var. soralifera (Frey) J.-E.Mattsson, Vulpicida = Vulpicida pinastri (Scop.) J.-E.Mattsson & M.J.Lai

pineti (Ach.) Lücking & Lumbsch, Coenogonium

pineti (Ach.) Vězda, Dimerella = Coenogonium

pineti (Ach.) Lücking & Lumbsch

pineti Ach., Lecidea = Coenogonium pineti (Ach.) Lücking & Lumbsch

pinguicula A.Massal., Verrucaria

pinicola (Hepp) A.Massal., Arthopyrenia = Arthopyrenia cinereopruinosa (Schaer.) A.Massal.

pinicola (A.Massal.) Anzi, Biatorella = Strangospora

pinicola (A.Massal.) Körb.

pinicola (Tibell) M.Prieto & Wedin, Calicium

pinicola Tibell, Cyphelium = Calicium pinicola (Tibell) M.Prieto & Wedin

pinicola (Hepp) Vain., Didymella = Arthopyrenia cinereopruinosa (Schaer.) A.Massal.

pinicola (A.Massal.) Körb., Strangospora

piniperda Körb., Lecanora = Lecanora albellula (Nyl.) Th.Fr.

piniperda f. detrusa (Th.Fr.) Hedl., Lecanora = Lecanora detrusa (Th.Fr.) Vain.

piniperda subsp. sarcopidoides (A. Massal.) Hedl., Lecanora = Lecanora sarcopidoides (A.Massal.) A.L. Sm.

pinnatifida Kurok., Parmelia

pinensis Lönnr., Lecidea = Carbonea vitellinaria (Nyl.) Hertel

pithyophila Th.Fr. & Blomb., Arthopyrenia

pithyophila (Th.Fr. & Blomb.) H.Magn., Leptorhaphis = Arthopyrenia pithyophila Th.Fr. & Blomb.

pithyophiloides (Vain.) H.Magn., Lecidea = Micarea erratica (Körb.) Hertel et al.

pityrea (Flörke) Fr., Cladonia = Cladonia ramulosa (With.) J.R.Laundon

pityrea Erichsen, Lecanora = Lecanora conizaeoides Nyl. ex Cromb.

pityrea (DC.) G.B.F.Nilsson, Pannaria = Pannaria conoplea (Ach.) Bory

pityrea Ropin & H.Mayrhofer, Rinodina

placida Orange, Verrucaria

placodioides Coppins & P.James, Trapelia

placodizans (Nyl.) H.Magn., Candelariella

placodizans (Zahlbr.) Wetmore, Peltula

placophyllus Anzi, Abrothallus = Sclerococcum
athallinum (Müll.Arg.) Ertz & Diederich

placophyllus Ach., Baeomyces

plana (J.Lahm) Nyl., Lecidea

plana H.Magn., Rinodina

platycarpa Ach., Lecidea = Porpidia macrocarpa
(DC.) Hertel & A.J.Schwab

platycarpoides, Biatorella = Sarcogyne distinguenda
Th.Fr.

platycarpoides (Bagl.) Hertel, Huilia = Porpidia
platycarpoides (Bagl.) Hertel

platycarpoides Bagl., Lecidea = Porpidia
platycarpoides (Bagl.) Hertel

platycarpoides (Bagl.) Hertel, Porpidia

platycarpoides Anzi, Sarcogyne = Sarcogyne
distinguenda Th.Fr.

platytropa Nyl., Xylographa = Xyloschistes
platytropa (Nyl.) Vain.

platytropa (Nyl.) Vain., Xyloschistes

plebeja Nyl., Lecidea

plebeja var. pithyophiloides Vain., Lecidea =
Micarea erratica (Körb.) Hertel et al.

pleiobola Nyl., Pyrenopsis

pleiocarpa (H.Magn.) Oxner, Aspicilia = Sagedia
zonata Ach.

pleiocarpa H.Magn, Lecanora = Sagedia zonata Ach.

pleiophora (Nyl.) Th.Fr., Blastenia = Caloplaca
pleiophora (Nyl.) Th.Fr.

pleiophora (Nyl.) Th.Fr., Caloplaca

pleiophora Nyl., Lecanora = Caloplaca pleiophora
(Nyl.) Th.Fr.

pleurota (Flörke) Schaer., Cladonia

plicata (A.Massal.) Lönnr., Polyblastia

plicatile (Ach.) Leight., Leptogium = Scytinium

plicatile (Ach.) Otálora et al.

plicatile auct., Rhizocarpon = Rhizocarpon rubescens
Th.Fr.

plicatile Leight., Rhizocarpon = Stereocaulon

plicatile (Leight.) Fryday & Coppins

plicatile (Ach.) Otálora et al., Scytinium

**plicatile (Leight.) Fryday & Coppins,
Stereocaulon**

plicigera (Zahlbr.) Räsänen, Aspicilia

plicigera, Lecanora = Aspicilia dendroplaca (H.
Magn.) Oxner

plittii Gyeln., Parmelia = Xanthoparmelia plittii
(Gyeln.) Hale

plittii (Gyeln.) Hale, Xanthoparmelia

plotocarpa Norman ex Zschacke, Polyblastia =
Henrica melaspora (Taylor) Savič & Tibell

plumbea (Lightf.) P.M.Jørg. & P.James, Degelia =
Pectenium plumbea (Lightf.) P.M.Jørg. et al.

plumbea (Lightf.) Bory, Pannaria = Pectenium
plumbea (Lightf.) P.M.Jørg. et al.

plumbea (Lightf.) Vain., Parmeliella = Pectenium
plumbea (Lightf.) P.M.Jørg. et al.

plumbea (Lightf.) P.M.Jørg. et al., Pectenium

plumbea Ach., Verrucaria = Verrucaria caerulea DC.

plumbeatum (Norman) H.Magn., Mycocalicium

plumbeoatra Vain., Lecidea = Miriquidica
plumbeoatra (Vain.) A.J.Schwab & Rambold

**plumbeoatra (Vain.) A.J.Schwab & Rambold,
Miriquidica**

plumbina (Anzi) R.Sant., Bacidia = Toninia

plumbina (Anzi) Hafellner & Timdal

plumbina (Anzi) Keissl., Lahmia = Toninia plumbina
(Anzi) Hafellner & Timdal

plumbina Anzi, Leciographa = Toninia plumbina
(Anzi) Hafellner & Timdal

plumbina (Anzi) Hafellner & Timdal, Toninia

pluriseptata auct., Arthopyrenia = Arthopyrenia
grisea (Schleich. ex Schaer.) Körb.

pluriseptatum (Arnold) Arnold, Placynthium = Placynthium dolichoterum (Nyl.) Trevis.

plusiospora Th.Fr. & Hulting ex Th.Fr., Lecidea = Lecidea betulicola (Kullh.) H.Magn.

pluvium Orange, Thelidium

pocillum (Ach.) Grognot, Cladonia

podetiicola (Zopf) Keissl., Dendrophoma = Lichenosticta alcornaria (Linds.) D.Hawksw.

podicellata Hellb., Bacidia = Scoliciosporum ophiosporum (Hellb.) Hav.

poeltii T.Schauer, Buellia = Tetramelas chloroleucus (Körb.) A.Nordin

poeltii D.Hawksw. & Hafellner, Lichenopuccinia

poeltii (T.Schauer) Kalb, Tetramelas = Tetramelas chloroleucus (Körb.) A.Nordin

poeltii (S.Y.Kond. & Kärnefelt) Søchting et al., Xanthomendoza = Xanthomendoza oregana (Gyeln.) Søchting et al.

poeltii S.Y.Kond. & Kärnefelt, Xanthoria = Xanthomendoza oregana (Gyeln.) Søchting et al.

polare (Ach.) Ach., Nephroma = Nephroma arcticum (L.) Torss.

poliococca Nyl., Lecidea = Micarea elachista (Körb.) Coppins & R.Sant.

poliodes Nyl., Lecidea = Brianaria lutulata (Nyl.) S.Ekman & M.Svensson

poliodes (Nyl.) Vězda, Micarea = Brianaria lutulata (Nyl.) S.Ekman & M.Svensson

poliophaea (Wahlenb.) Ach., Lecanora

pollinaria (Westr.) Ach., Ramalina

pollinii (A.Massal.) Jatta, Caloplaca = Caloplaca phaeocarpella (Nyl.) Zahlbr.

polyanthes (Bernh.) Malme, Lempholemma

polyanthes (Bernh.) Arnold, Physma = Lempholemma polyanthes (Bernh.) Malme

polycarpa Th.Fr., Acarospora = Lobothallia alphoplaca (Wahlenb.) Hafellner

polycarpa (Körb.) Körb., Acrocordia = Anisomeridium biforme (Borrer) R.C.Harris

polycarpa (A.Massal.) Zahlbr., Caloplaca = Flavoplaca polycarpa (A.Massal.) Arup et al.

polycarpa (A.Massal.) Arup et al., Flavoplaca

polycarpa Flörke, Lecidea = Lecidea lapicida (Ach.) Ach. var. pantherina Ach.

polycarpa (Hoffm.) Frödén et al., Polycauliona

polycarpa (Hoffm.) Th.Fr. ex Rieber, Xanthoria = Polycauliona polycarpa (Hoffm.) Frödén et al.

polycarpella Erichsen, Lecidea = Micarea polycarpella (Erichsen) Coppins & Palice

polycarpella (Erichsen) Coppins & Palice, Micarea

polycarpoides Nyl., Cladonia

polycarpon Hoffm., Collema = Enchylium polycarpon (Hoffm.) Otálora et al.

polycarpon (Hoffm.) Otálora et al., Enchylium

polycarpum (Hepp) Th.Fr., Rhizocarpon

polychroa (Th.Fr.) Körb., Bacidia

polychroma Anzi, Aspicilia

polychroma (Anzi) Nyl., Lecanora = Aspicilia polychroma Anzi

polycocca Sommerf., Lecidea

polycoccoides Hafellner & R.Sant., Lichenochora

polydactyla (Flörke) Spreng., Cladonia

polydactyla var. umbricola (Tønsberg & Ahti) Coppins in Purvis & James, Cladonia = Cladonia umbricola Tønsberg & Ahti

polydactyloides auct., Peltigera = Peltigera neckeri Hepp ex Müll.Arg.

polydactylon (Neck.) Hoffm., Peltigera

polydactylon var. crassoides Gyeln., Peltigera = Peltigera hymenina (Ach.) Delise

polymorpha (Lilj.) Ach., Ramalina

polymorpha var. capitata (Ach.) Clauzade & Cl. Roux, Ramalina = Ramalina capitata (Ach.) Nyl.

polyphylla (L.) Funck, Gyrophora = Umbilicaria polyphylla (L.) Baumg.

polyphylla (L.) Baumg., Umbilicaria

**polyphyllizum (Nyl.) Blomb. & Forssell,
Dermatocarpon**

polyphyllum auct., Dermatocarpon = Dermatocarpon
miniatum (L.) W.Mann var. complicatum (Lightf.)
Th.Fr.

**polypori (Ellis & Everh.) M.E.Barr,
Anisomeridium**

polyporina (Nyl.) Zahlbr., Buellia

polyporina Nyl., Lecidea = Buellia polyporina (Nyl.)
Zahlbr.

polyrrhiza (L.) Schol., Actinogyra = Umbilicaria
polyrrhiza (L.) Fr.

polyrrhiza (L.) Körb., Gyrophora = Umbilicaria
polyrrhiza (L.) Fr.

polyrrhiza (L.) Fr., Umbilicaria

polyspora R.Sant., Gyalidea

polyspora Hepp ex Müll.Arg., Muellerella

polyspora var. hospitans (Stizenb.) Keissl.,
Muellerella = Muellerella hospitans Stizenb.

polyspora Th.Fr., Rinodina

polyspora (Nyl.) Grumann, Sporastatia

polysporella (Nyl.) Arnold, Buellia = Rinodina
polyspora Th.Fr.

polysporella Nyl., Lecidea = Rinodina polyspora Th.
Fr.

polysporoides Giralt & H.Mayrhofer, Rinodina

polysticta Borrer, Verrucaria

polystictoides Vain., Verrucaria

**polytrichi Döbbeler & H.Mayrhofer,
Protothelenella**

polytrichina (Th.Fr.) Vain., Lecanora = Lecidea
polytrichina Hertel

polytrichina sensu Vainio, Lecanora = Lecanora
leptacinella Nyl.

polytrichina Hertel, Lecidea

polytrichinella Hertel et al., Lecidea

polytropa (Ehrh. ex Hoffm.) Rabenh., Lecanora

polytropa var. leucococca (Sommerf.) Th.Fr.,
Lecanora = Lecanora leucococca Sommerf.

polytropa var. polytropella (Nyl.) Nyl., Lecanora =
Lecanora polytropa (Ehrh. ex Hoffm.) Rabenh.

polytropella Nyl., Lecanora = Lecanora polytropa
(Ehrh. ex Hoffm.) Rabenh.

ponojensis Gyeln., Peltigera

pontica Printzen & Tønsberg, Biatora

populicola Vězda, Bacidia = Toniniopsis separabilis
(Nyl.) Gerasimova & A.Beck

populicola (DC.) Duby, Lecanora

populicola Räsänen, Porocyphus

populina A.Massal., Arthonia = Naevia punctiformis
(Ach.) A.Massal.

populina (Hoffm.) Vain., Ramalina = Ramalina
fastigiata (Pers.) Ach.

populneum Brond. ex Duby, Calicium =
Phaeocalicium populneum (Brond. ex Duby) A.F.W.
Schmidt

populneum (Brond. ex Duby) Vain., Embolidium =
Phaeocalicium populneum (Brond. ex Duby) A.F.W.
Schmidt

**populneum (Brond. ex Duby) A.F.W.Schmidt,
Phaeocalicium**

populorum A.Massal., Arthrosporum = Toninia
populorum (A.Massal.) Kistenich et al.

populorum (A.Massal.) Trevis., Bacidia = Toninia
populorum (A.Massal.) Kistenich et al.

populorum (A.Massal.) Vain., Bilimbia = Toninia
populorum (A.Massal.) Kistenich et al.

populorum (A.Massal.) Clauzade & Cl.Roux, Buellia
= Diplotomma alboatrum (Hoffm.) Flot.

populorum Gilenstam, Conotrema = Stictis
populorum (Gilenstam) Gilenstam

populorum (Gilenstam) Gilenstam, Stictis

populorum (A.Massal.) Kistenich et al., Toninia

poriniza Nyl., Pertusaria

porospora Norman ex Erichsen, Pertusaria

porphyria Shaer., Pyrenula

porphyrium (Pers.) Zopf, Haematomma =
Haematomma ochroleucum (Neck.) J.R.Laundon
var. porphyrium (Pers.) J.R.Laundon

porphyroplaca Hinteregger & Poelt, Biatora =
Myochroidea rufofusca (Anzi) Printzen et al.

porphyrospoda (Anzi) Th.Fr., Lecidea =
Myochroidea porphyrospoda (Anzi) Printzen et al.

**porphyrospoda (Anzi) Printzen et al.,
Myochroidea**

porphyrostrota Vain., Lecidea = Rhizocarpon
distinctum Th.Fr.

porphyrostrota f. lapillorum Vain., Lecidea =
Rhizocarpon reductum Th. Fr.

porphyrostrotum (Vain) Vain., Rhizocarpon =
Rhizocarpon distinctum Th.Fr.

porrectula Nyl., Sphinctrina

porrectulum (Nyl.) Vain., Embolidium = Sphinctrina
porrectula Nyl.

porriginosa (Turner) Th.Fr., Bacidia = Bacidia
rubella (Hoffm.) A.Massal.

portentosa (Dufour) Follmann, Cladina = Cladonia
portentosa (Dufour) Coem.

portentosa (Dufour) Coem., Cladonia

positiva (Gyeln.) Motyka, Alectoria = Bryoria
fuscescens (Gyeln.) Brodo & D.Hawksw.

postuma Nyl., Lecidea = Rhizocarpon postumum
(Nyl.) Arnold

postuma subsp. subrudecta Vain., Lecidea =
Rhizocarpon submodestum (Vain.) Vain.

**postumum (Nyl.) Arnold, Rhizocarpon
potamophila Savić & Tibell, Polyblastia**

praebadium (Nyl.) Zahlbr., Rhizocarpon

praecedens Nyl., Calicium = Phaeocalicium

praecedens (Nyl.) A.F.W.Schmidt

praecedens (Nyl.) Vain., Mycocalicium =
Phaeocalicium praecedens (Nyl.) A.F.W.Schmidt

**praecedens (Nyl.) A.F.W.Schmidt, Phaeocalicium
praenubila Nyl., Lecidea**

praeradiosa (Nyl.) Poelt & Leuckert, Aspicilia =
Lobothallia praeradiosa (Nyl.) Hafellner

praeradiosa Nyl., Lecanora = Lobothallia praeradiosa
(Nyl.) Hafellner

praeradiosa (Nyl.) Hafellner, Lobothallia

praerupta Anzi, Verrucaria

praeruptorum H.Magn., Acarospora = Acarospora
nitrophila H.Magn.

praeruptorum (H.Magn.) R.Sant., Aspicilia =
Miriquidica praeruptorum (H.Magn.)

**praeruptorum (Du Rietz & H.Magn. in Du Rietz)
V.Wirth & Vězda, Fuscidea**

praeruptorum H.Magn., Lecanora = Miriquidica
praeruptorum (H.Magn.)

praeruptorum Du Rietz & H.Magn., Lecidea =
Fuscidea praeruptorum (Du Rietz & H.Magn. in Du
Rietz) V.Wirth & Vězda

praeruptorum (H.Magn.), Miriquidica

praesistens Nyl., Lecanora

praestabilis (Nyl.) Timdal, Hypocenomyce =
Pycnora praestabilis (Nyl.) Hafellner

praestabilis Nyl., Lecidea = Pycnora praestabilis
(Nyl.) Hafellner

praestabilis (Nyl.) Hafellner, Pycnora

praetermissa Savić & Tibell, Atla

praetermissa (Nyl.) P.M.Jørg., Fuscopannaria

praetermissa Foucard & G.Thor, Gyalidea

praetermissa Tønsberg, Lecidea

praetermissa Nyl., Pannaria = Fuscopannaria
praetermissa (Nyl.) P.M.Jørg.

praetermissa (Nyl.) P.James, Parmeliella =
Fuscopannaria praetermissa (Nyl.) P.M.Jørg.

praetermissa (Trevis.) Anzi, Verrucaria

praetextata (Flörke ex Sommerf.) Zopf, Peltigera

prasina (Fr.) Th.Fr., Catillaria = Micarea prasina Fr.

prasina var. byssacea Th.Fr., Catillaria = Micarea
byssacea (Th.Fr.) Czarnota et al.

prasina Fr., Micarea

prasina f. micrococca (Körb.) Hedl., Micarea =
Micarea micrococca (Körb.) Gams ex Coppins

prasinelum Nyl., Thelocarpon = Thelocarpon laureri
(Flot.) Nyl.

prasinzia Nyl., Lecidea = Micarea prasina Fr.

prasinoides Elenkin, Lecania

prasinolepis (Nyl.) Th.Fr., Lecidea

prasina (Wedd.) B.de Lesd., Lecidea = Lecidella
scabra (Taylor) Hertel & Leuckert

prasina (Wedd.) Hertel, Lecidella = Lecidella
scabra (Taylor) Hertel & Leuckert

pratorum Brackel et al., Paralecia

premnea (Ach.) Egea & Torrente, Cresponea

premnea (Ach.) Arnold, Lecanactis = Cresponea

premnea (Ach.) Egea & Torrente

premnea sensu Fr., Lecidea = Megalaria grossa (Pers.
ex Nyl.) Hafellner

premnea Ach., Lecidea = Cresponea premnea (Ach.)
Egea & Torrente

premnea f. deminuens Nyl., Lecidea = Cresponea
chloroconia (Tuck.) Egea & Torrente

prevostii (Duby) Anzi, Aspicilia = Hymenelia

prevostii (Duby) Kremp.

prevostii (Duby) Kremp., Hymenelia

prevostii (Duby) Arnold, Ionaspis = Hymenelia

prevostii (Duby) Kremp.

prevostii (Duby) Th.Fr., Lecanora = Hymenelia

prevostii (Duby) Kremp.

privigna (Ach.) A.Sneid., Acarospora

privigna auct., Biatorella = Sarcogyne hypophaea
(Nyl.) Arnold

privigna Ach., Lecidea = Acarospora privigna (Ach.)
A.Sneid.

privigna auct., Sarcogyne = Sarcogyne hypophaea
(Nyl.) Arnold

proboscidea (L.) Ach., Gyrophora = Umbilicaria

proboscidea (L.) Schrad.

proboscidea (L.) Schrad., Umbilicaria

proboscideum Nyl., Spilonema = Placynthium
nigrum (Huds.) Gray

procervula Norman, Buellia = Sclerococcum
homoclinellum (Nyl.) Ertz & Diederich

**prodiens (Harm.) Diederich & Hafellner,
Abrothallus**

prolixa (Ach.) Carroll, Parmelia = Xanthoparmelia

pulla (Ach.) O.Blanco et al.

prominula Nyl., Verrucaria

promiscens Nyl., Lecidea

promiscua Nyl., Lecidea

promiscua var. promiscens (Nyl.) Clauzade & Cl.
Roux, Lecidea = Lecidea promiscens Nyl.

promixta Nyl., Lecidea

propagulifera auct., Umbilicaria = Umbilicaria
dendrophora (Poelt) Hestmark

propagulifera (Vain.) Llano, Umbilicaria =
Umbilicaria umbilicarioides (Stein) Krog &
Swinscow

propinqua auct., Bacidia = Bacidia biatorina (Körb.)
Vain.

propinquella Nyl., Sphaeria = Sphaerellothecium

propinquellum (Nyl.) Cl.Roux & Triebel

**propinquellum (Nyl.) Cl.Roux & Triebel,
Sphaerellothecium**

propinquus (Körb.) D.Hawksw., Endococcus

prosechoides (Nyl.) H.Olivier, Lecanora = Lecanora
helicopis (Wahlenb.) Ach.

prosechoidiza (Nyl.) A.L.Sm., Lecanora = Lecanora
helicopis (Wahlenb.) Ach.

prostrata Vain. ex Räsänen, Usnea = Usnea barbata
(L.) Weber ex F.H.Wigg.

protecta H.Magn., Lecidea

proteus Poelt, Caloplaca = Leproplaca proteus
(Poelt) Arup et al.

proteus (Poelt) Arup et al., Leproplaca

protoblasteniae Diederich, Endococcus

protomatrae Gyeln., Parmelia = Xanthoparmelia
protomatrae (Gyeln.) Hale

protomatrae (Gyeln.) Hale, Xanthoparmelia

protopannariae Zhurb., Pronectria = Xenonectriella
protopannariae (Zhurb.) Brackel

protopannariae (Zhurb.) Brackel, Xenonectriella

protoparmeliae Hafellner, Phacographa

protoparmeliae Diederich & Coppins, Tremella

protothallina (Anzi) Hafellner, Dactylospora =
Sclerococcum protothallinum (Anzi) Ertz &
Diederich

protothallina (Anzi) Körb., Karschia = Sclerococcum
protothallinum (Anzi) Ertz & Diederich

**protothallinum (Anzi) Ertz & Diederich,
Sclerococcum**

protrudens Malme, Lecanora = Aspicilia cinerea (L.)
Körb.

protrusa Fr., Lecidea = Sclerococcum saxatile
(Schaer.) Ertz & Diederich

protrusa auct., Lecidea = Lecidella scabra (Taylor)
Hertel & Leuckert

protuberans Räsänen, Aspicilia = Sagedia simoënsis
(Räsänen) A.Nordin et al.

protuberans (Ach.) Anzi, Gyalecta = Sagirolechia
protuberans (Ach.) A.Massal.

protuberans (Sommerf. in Th.Fr.) Th.Fr., Pertusaria =
Pertusaria carneopallida (Nyl.) Anzi ex Nyl.

protuberans (Ach.) A.Massal., Sagirolechia

pruinata (Pers.) A.L.Sm., Arthonia = Pachnolepia
pruinata (Pers.) Frisch & G.Thor

pruinata (Pers.) Frisch & G.Thor, Pachnolepia

pruinata Pers., Patellaria = Pachnolepia pruinata
(Pers.) Frisch & G.Thor

pruinosa (Vain.) Motyka, Aspicilia = Aspicilia
cinerea (L.) Körb.

pruinosa P.James, Bacidia = Scoliciosporum
pruinosum (P.James) Vězda

pruinosa (Th.Fr.) Holt.-Hartw., Bryonora

pruinosa auct., Sarcogyne = Sarcogyne regularis
Körb.

pruinosa var. psimmythina (Nyl.) H.Magn.,
Sarcogyne = Sarcogyne regularis Körb.

pruinosa H.Magn., Lecidea = Lecidea lapicida
(Ach.) Ach. var. lapicida

pruinosum (P.James) Vězda, Scoliciosporum

prunastri (L.) Ach., Evernia

psammophila Erichsen, Verrucaria = Verrucaria
bryoctona (Th.Fr.) Orange

psephota (Tuck.) Hertel, Lambiella

psephota (Tuck.) Hertel & Rambold, Rimularia =
Lambiella psephota (Tuck.) Hertel

pseudandrosacea (Bull.) M.M.Moser, Omphalina =
Lichenomphalia umbellifera (L.:Fr.) Redhead et al.

pseudandrosacea auct., Omphalina = Lichenomphalia
velutina (Quél.) Redhead et al.

pseudassimilis Hertel, Lecidea = Lecidea
atrobrunnea (Ramond ex Lam. & DC.) Schaer.

**pseudeverniae (Etayo & Diederich) Ertz &
Diederich, Didymocyrtis**

pseudeverniae (Etayo & Diederich) D.Hawksw.,
Diederichia = Didymocyrtis pseudeverniae (Etayo &
Diederich) Ertz & Diederich

pseudeverniae Etayo & Diederich, Macrophomia =
Didymocyrtis pseudeverniae (Etayo & Diederich)
Ertz & Diederich

pseudocarpus Nyl., Endococcus

pseudocinerea Breuss, Placidopsis

pseudoconfluens Hertel ad int., Lecidea

pseudocorallina (Lilj.) Arnold, Pertusaria

pseudocrustulata Hertel, Huilia

pseudodistera Nyl., Lecanora

pseudofulgensia Gaya & Nav.-Ros., Caloplaca =
Calogaya arnoldii (Wedd.) Arup et al.

pseudofuscescens Gyeln., Alectoria = Bryoria
implexa (Hoffm.) Brodo & D.Hawksw.

pseudofuscescens (Gyeln.) Brodo & D.Hawksw.,
Bryoria = Bryoria implexa (Hoffm.) Brodo & D.
Hawksw.

pseudogranulosa Coppins & P.James, Trapeliopsis

pseudohyopta Vain., Lecanora

pseudomelinodes A.J.Schwab, Porpidia = Porpidia ochrolemma (Vain.) Brodo & R.Sant.

pseudomicrococca Launis & Myllys, Micarea

pseudopilati (Vain.) Vain, Lecidea = Lecidea ecrustacea (Anzi ex Arnold) Arnold

pseudopyopta Vain., Lecanora

pseudospeirea (Th.Fr.) V. Wirth, Siegartia = Rhizocarpon umbilicatum (Ramond) Flagey

pseudospeireum (Th.Fr.) Lyngge, Rhizocarpon = Rhizocarpon umbilicatum (Ramond) Flagey

pseudotartarea (Vain.) Verseghy, Ochrolechia

pseudovaria Degel., Lecanora = Lecanora conizaeoides Nyl. ex Cromb.

psilotera (Nyl.) Arnold, Leptorhaphis

psilotera Nyl., Verrucaria = Leptorhaphis psilotera (Nyl.) Arnold

psimmythina Nyl., Lecanora = Sarcogyne regularis Körb.

psorae (Anzi) Müll.Arg., Arthopyrenia = Stigmatidium psorae (Anzi) Hafellner

psorae (Anzi) Winter, Pharcidia = Stigmatidium psorae (Anzi) Hafellner

psorae (Anzi) Hafellner, Stigmatidium

psorodeum (Nyl.) Blomb. & Forssell, Endocarpon

psoromoides (Borrer) R.Sant., Catapyrenium

psoromoides (Borrer) Dalla Torre & Sarnth., Dermatocarpon = Catapyrenium psoromoides (Borrer) R.Sant.

ptelaeodes (Ach.) Minks, Cyrtidula = Cyrtidula hippocastani (DC.) R.C.Harris

ptelaeodes (Ach.) Nyl., Mycoporum = Cyrtidula hippocastani (DC.) R.C.Harris

pterulina (Nyl.) G.E.Howard, Ochrolechia = Ochrolechia frigida (Sw.) Lyngge

pubescens (L.) R.Howe, Alectoria = Pseudephebe pubescens (L.) M.Choisy

pubescens auct., Ephebe = Ephebe lanata (L.) Vain.

pubescens (L.) Vain., Parmelia = Pseudephebe

pubescens (L.) M.Choisy

pubescens (L.) M.Choisy, Pseudephebe

pubescens (Etayo & Diederich) Diederich & Etayo, Rhymbocarpus

pulchella (Schrad.) Tuck., Buellia = Catolechia wahlenbergii (Ach.) Körb.

pulchella (Borrer) Nyl., Normandina

pulchra Savić & Tibell, Polyblastia

pulcaris (Pers.) Ach., Lecanora

pulcaris subsp. pulcaris f. pinastri (Schaer.) Clauzade & Cl.Roux, Lecanora = Lecanora pulcaris (Pers.) Ach.

pulcaris auct., Opegrapha = Alyxoria varia (Pers.) Ertz & Tehler

pulla (Ach.) Essl., Neofuscelia = Xanthoparmelia

pulla (Ach.) O.Blanco et al.

pulla var. delisei (Duby), Neofuscelia = Xanthoparmelia delisei (Duby) O.Blanco et al.

pulla var. pulla, Neofuscelia = Xanthoparmelia pulla (Ach.) O.Blanco et al.

pulla Ach., Parmelia = Xanthoparmelia pulla (Ach.) O.Blanco et al.

pulla var. delisei (Duby) H.Magn., Parmelia = Xanthoparmelia delisei (Duby) O.Blanco et al.

pulla (Ach.) O.Blanco et al., Xanthoparmelia

pullata Norman, Biatora = Frutidella furfuracea (Anzi) M.Westb. & M.Svensson

pullata (Norman) Schmall, Frutidella = Frutidella furfuracea (Anzi) M.Westb. & M.Svensson

pullata (Norman) Th.Fr., Lecidea = Frutidella furfuracea (Anzi) M.Westb. & M.Svensson

pullatula (Ach.) Stein, Stenocybe

pullatulum Ach., Calicium = Stenocybe pullatula (Ach.) Stein

pullulans Th.Fr., Lecidea = Carbonea vorticosa (Flörke) Hertel

pulmonacea var. pleurocarpa Ach., Sticta =
Plectocarpon lichenum (Sommerf.) D.Hawksw.

pulmonaria (L.) Hoffm., Lobaria

pulposi (Zopf) Grube & Hafellner, Didymellopsis

pulposum (Bernh.) Ach., Collema = Enchylium
tenax (Sw.) Gray

pulveracea Flörke ex Schaer., Lecidea = Lecidella
pulveracea (Flörke ex Schaer.) P.Sydow

pulveracea (Flörke ex Schaer.) P.Sydow, Lecidella

pulverea (Borrer) Lettau, Catillaria = Megalaria
pulverea (Borrer) Hafellner & E.Schreiner

pulverea (Borrer) Kalb, Catillochroma = Megalaria
pulverea (Borrer) Hafellner & E.Schreiner

pulverea (Borrer) Vězda & Poelt, Catinaria =
Megalaria pulverea (Borrer) Hafellner & E.Schreiner

**pulverea (Borrer) Hafellner & E.Schreiner,
Megalaria**

pulvereo-sulphurata Harm., Pertusaria = Pertusaria
flavida (DC.) J.R.Laundon

pulverulacea Moberg, Physconia = Physconia
distorta (With.) J.R.Laundon

pulverulenta (Anzi) Jatta, Buellia = Tetramelas
pulverulentus (Anzi) A.Nordin & Tibell

pulverulenta (Anzi) Körb., Karschia = Tetramelas
pulverulentus (Anzi) A.Nordin & Tibell

pulverulenta auct., Peltigera = Peltigera scabrosa Th.
Fr.

pulverulenta ("Hoffm.") Fűrnr., Physcia = Physconia
distorta (With.) J.R.Laundon

pulverulenta var. tenuis (Körb.) Th.Fr., Physcia =
Phaeophyscia constipata (Norrl. & Nyl.) Moberg

pulverulenta ("Hoffm.") Poelt, Physconia =
Physconia distorta (With.) J.R.Laundon

pulverulentum (Anzi) Crespo & D.Hawksw.,
Diplotomma = Tetramelas pulverulentus (Anzi) A.
Nordin & Tibell

pulverulentum (Schaer.) Räsänen, Rhizocarpon =
Rhizocarpon atroflavescens Lyngé

**pulverulentus (Anzi) A.Nordin & Tibell,
Tetramelas**

pulverulum (Th.Fr.) Türk & Hafellner, Helocarpon =
Helocarpon crassipes Th.Fr.

pulvinata (Malbr.) Zahlbr., Candelariella =
Candelariella coralliza (Nyl.) H.Magn.

**pulvinata (Sandst.) van Herk & Aptroot,
Cladonia**

pulvinata (Schaer.) Vain., Euopsis

pulvinata (Rehm) Arnold, Leciographa = Opegrapha
pulvinata Rehm

pulvinata Verseggy, Ochrolechia = Ochrolechia
tartarea (L.) A.Massal.

pulvinata Rehm, Opegrapha

pulvinata Erichsen, Pertusaria = Lepra amara (Ach.)
Hafellner

pulvinata (Schaer.) Th.Fr., Pyrenopsis = Euopsis
pulvinata (Schaer.) Vain.

pulvinata auct., Thyrea = Thyrea confusa Henssen

pulvinata (Schaer.) A.Massal., Thyrea =
Gonohymenia iodopulchra (Croz.) Henssen

pulvinata (Taylor) H.Olivier, Toninia = Toninia
thiopsora (Nyl.) H.Olivier

pulvinatula (Arnold) Dalla Torre & Sarnth., Lecidea =
Miriquidica pulvinatula (Arnold) Hertel &
Rambold

**pulvinatula (Arnold) Hertel & Rambold,
Miriquidica**

pulvinatum (Rehm) Rehm, Celidium = Opegrapha
pulvinata Rehm

pulvinatum Hoffm., Collema = Scytinium
pulvinatum (Hoffm.) Otálora et al.

pulvinatum Th.Fr., Endocarpon

pulvinatum (Hoffm.) Otálora, Leptogium =
Scytinium pulvinatum (Hoffm.) Otálora et al.

pulvinatum Øvst., Placynthium

pulvinatum (Eitner) R.Sant., Polycoccum

pulvinatum (Hoffm.) Otálora et al., Scytinium

pulvinatum Eitner, Tichothecium = Polycoccum
pulvinatum (Eitner) R.Sant.

pumila Lettau, Rosellinia = Stigmatidium pumilum (Lettau) Matzer & Hafellner

pumilum (Lettau) Matzer & Hafellner, Stigmatidium

punctata (Hoffm.) Coppins & Scheid., Amandinea

punctata (Hoffm.) A.Massal., Buellia = Amandinea

punctata (Hoffm.) Coppins & Scheid.

punctata M.S.Christ. & D.Hawksw., Taeniolella

punctella Nyl., Arthonia

punctiformis Ach., Arthonia = Naevia punctiformis (Ach.) A.Massal.

punctiformis subsp. boreella Vain., Arthonia = Arthonia boreella (Vain.) Zahlbr.

punctiformis (Pers.) A.Massal., Arthopyrenia = Naetrocymbe punctiformis (Pers.) R.C.Harris

punctiformis (Hoffm.) A.Massal., Buellia = Amandinea punctata (Hoffm.) Coppins & Scheid.

punctiformis (Schrank) Vain., Didymella = Naetrocymbe punctiformis (Pers.) R.C.Harris

punctiformis (Pers.) R.C.Harris, Naetrocymbe

punctiformis (Ach.) A.Massal., Naevia

punctiformis Zopf, Rhymbocarpus = Rhymbocarpus geographicus (J.Steiner) Vouaux

punctillata (Nyl.) R.Sant., Cercidospora

punctillata Nyl., Verrucaria = Cercidospora

punctillata (Nyl.) R.Sant.

punctum (A.Massal.) Diederich & Pino-Bodas, Bachmanniomyces

punctum (A.Massal.) Jatta, Lecidea = Bachmanniomyces punctum (A.Massal.) Diederich & Pino-Bodas

punctum A.Massal., Nesolechia = Bachmanniomyces

punctum (A.Massal.) Diederich & Pino-Bodas

punctum (A.Massal.) Rambold et al., Phaeopyxis = Bachmanniomyces punctum (A.Massal.) Diederich & Pino-Bodas

pupillaris Nyl., Lecanora = Pertusaria pupillaris (Nyl.) Th.Fr.

pupillaris (Nyl.) Th.Fr., Pertusaria

purpurascens Triebel, Dactylospora = Sclerococcum purpurascens (Triebel) Ertz & Diederich

purpurascens Ehrenb., Epicoccum = Epicoccum nigrum Link

purpurascens (Triebel) Ertz & Diederich, Sclerococcum

pusilla (A.Massal.) Arup et al., Calogaya

pusilla (A.Massal.) Zahlbr., Caloplaca = Calogaya

pusilla (A.Massal.) Arup et al.

pusilla (Ach.) A.F.W.Schmidt, Chaenothecopsis

pusilla Tønsberg, Fuscidea

pusilla Launis et al., Micarea

pusillum Hedw., Endocarpon

pusillum Nyl., Leptogium = Scytinium biatorinum (Nyl.) Otálora et al.

pusillum Runemark, Rhizocarpon

pusiola (Ach.) Vain., Chaenothecopsis

pustulata (L.) Mérat, Lasallia

pustulata (L.) Hoffm., Umbilicaria = Lasallia
pustulata (L.) Mérat

putnae Servít, Verrucaria

pycnidiata Czarnota & Coppins, Bacidia = Bacidina
pycnidiata (Czarnota & Coppins) Czarnota & Guz.-
Krzem.

pycnidiata (Czarnota & Coppins) Czarnota & Guz.-Krzem., Bacidina

pycnocarpa H.Magn., Lecanora = Lecanora
leptyrodes (Nyl.) G.B.F.Nilsson

pycnocarpa (Körb.) Ohlert, Lecidea = Miriquidica
pycnocarpa (Körb.) M.P.Andreev

pycnocarpa (Körb.) M.P.Andreev, Miriquidica

pycnocarpoides Eitner, Rhizocarpon

pycnosticta Vain., Verrucaria = Bagliettoa baldensis (A.Massal.) Vězda

pygmaea Degel., Arthopyrenia

pygmaea (Lightf.) C.Agardh, Lichina

pygmaea (Körb.) D.Hawksw., Muellerella

pygmaea var. athallina (Müll.Arg.) Triebel,
Muellerella = Muellerella erratica (Müll.Arg.)
Hafellner & V.John

pygmaea var. ventosicola (Mudd) Triebel,
Muellerella = Muellerella ventosicola (Mudd) D.
Hawksw.

pygmaeum Körb., Tichothecium = Muellerella
pygmaea (Körb.) D.Hawksw.

pygmaeus (Körb.) Th.Fr., Endococcus = Muellerella
pygmaea (Körb.) D.Hawksw.

pyracea (Ach.) Arup et al., Athallia

pyracea (Ach.) Zwackh, Caloplaca = Athallia
pyracea (Ach.) Arup et al.

pyracea var. borealis (Vain.) Olivier, Caloplaca =
Caloplaca borealis (Vain.) Poelt

pyracea var. cerinelloides Erichsen, Caloplaca =
Athallia cerinelloides (Erichsen) Arup et al.

pyraceella (Nyl.) Blomb. & Forssell, Caloplaca

pyrenastrella (Nyl.) Arnold, Arthopyrenia =
Naetrocymbe punctiformis (Pers.) R.C.Harris

pyrenastrella (Nyl.) Vain., Didymella = Naetrocymbe
punctiformis (Pers.) R.C.Harris

pyreniospora Nyl., Lecanora = Rinodina conradii
Körb.

pyrenophora f. incavata Nyl., Verrucaria =
Polyblastia decipiescens (Vain.) Zschacke

pyrenophora var. incincta Vain., Verrucaria =
Thelidium incinctum (Vain.) Vain.

pyrenophorum (Ach.) Mudd, Thelidium

pyrenopsoides H.Magn., Acarospora

pyrenopsoides (Vain.) Zahlbr., Buellia

pyrina (Ach.) Arnold, Rinodina

pyxidata (L.) Hoffm., Cladonia

pyxidata var. chlorophaea (Flörke ex Sommerf.)
Flörke, Cladonia = Cladonia chlorophaea (Flörke ex
Sommerf.) Spreng.

pyxidata subsp. pocillum (Ach.) Fink, Cladonia =
Cladonia pocillum (Ach.) Grognot

pyxidata var. pocillum (Ach.) Schaer., Cladonia =
Cladonia pocillum (Ach.) Grognot

pyxidatae (Oudem.) Petr. & Syd., Lichenonium

quadratum J.Lahm ex Körb., Collema = Rostania
occultata (Bagl.) Otálora et al.

quadratum (J.Lahm ex Körb.) Nyl. ex Norrl.,
Leptogium = Rostania occultata (Bagl.) Otálora et al.

quadricolor (Dicks.) Borrer, Lecidea = Trapeliopsis
granulosa (Hoffm.) Lumbsch

quartzina Nyl., Lecanora = Lecanora actophila
Wedd.

quercicola (Nyl.) Vain., Bacidia = Scutula
circumspecta (Vain.) Kistenich et al.

quercicola Coppins & P.James, Schismatomma =
Schizotrema quercicola (Coppins & P.James) Ertz,
Frisch & Sanderson

**quercicola (Coppins & P.James) Ertz, Frisch &
Sanderson, Schizotrema**

quercina (Willd.) Hale, Parmelina

quercinum Pers., Calicium

quercus (A.Massal.) Minks, Cyrtidula

quercus (Beltr.) Körb., Leptorhaphis

quercus f. macrospora Eitner, Leptorhaphis =
Cresporhaphis macrospora (Eitner) M.B.Aguirre

quercus (A.Massal.) Müll.Arg., Mycoporum =
Cyrtidula quercus (A.Massal.) Minks

quernea (Dicks.) Ach., Lecidea = Pyrrhospora
quernea (Dicks.) Körb.

quernea (Dicks.) Clauzade, Protoblastenia =
Pyrrhospora quernea (Dicks.) Körb.

quernea (Dicks.) Körb., Pyrrhospora

quinqeseptata (Hepp) Zschacke, Polyblastia

quisquiliare (Leers) M.Choisy, Leprocaulon

quisquiliare (Leers) Hoffm., Stereocaulon =
Leprocaulon quisquiliare (Leers) M.Choisy

rabenhorstii (Hepp) Arnold, Lecania

radiata (Pers.) Ach., Arthonia

radiata (Sommerf.) Forssell, Omphalaria =
Lempholemma radiatum (Sommerf.) Henssen

radiata (Sommerf.) Zahlbr., Thyrea = Lempholemma
radiatum (Sommerf.) Henssen

radiatum (Sommerf.) Henssen, Lempholemma

radicicola Printzen et al., Biatora

radiosa (Hoffm.) Poelt & Leuckert, Aspicilia =
Lobothallia radiosa (Hoffm.) Hafellner

radiosa (Hoffm.) Schaer., Lecanora = Lobothallia
radiosa (Hoffm.) Hafellner

radiosa (Hoffm.) Hafellner, Lobothallia

raesaenenii Breck., Caloplaca

raesaenenii Gyeln., Lecanora = Lecanora exspersa
Nyl.

raesaenenii Erichsen, Pertusaria

raesaenenii Pykälä & Myllys, Verrucaria

ralfsii (Salwey) M.Mayrhofer, Halecania

ralfsii (Salwey) A.L.Sm., Lecania = Halecania ralfsii
(Salwey) M.Mayrhofer

**ramalinae (Roberge ex Desm.) Ertz et al.,
Didymocyrtis**

ramalinae Nordin, Phoma = Vouauxiomyces
ramalinae (Nordin) D.Hawksw.

ramalinae Diederich, Tremella

ramalinae (Nordin) D.Hawksw., Vouauxiomyces

ramulicola Vain., Didymella = Arthopyrenia
cinereopruinosa (Schaer.) A.Massal.

ramulicola (H.Magn.) Hillm., Lecidea = Palicella
filamentosa (Stirt.) Rodr.Flakus & Printzen

ramulicola H.Magn., Lecidea = Lecanora cadubriac
(A.Massal.) Hedl.

ramulicola Kernstock ex Arnold, Rinodina =
Rinodina freyi H.Magn.

ramulosa (With.) J.R.Laundon, Cladonia

ramulosa (Hook.) Tuck., Dactylina

ramulosa Th.Fr., Lecidea

ramulosa var. depressa Th.Fr., Lecidea = Biatora
ementiens (Nyl.) Printzen

ramulosa (Hoffm.) Fr., Synalissa

rangiferina (L.) Nyl., Cladina = Cladonia rangiferina
(L.) F.H.Wigg.

rangiferina (L.) F.H.Wigg., Cladonia

rangiferina f. stygia Fr., Cladonia = Cladonia stygia
(Fr.) Ruoss

rangiferinus var. alpestris L., Lichen = Cladonia
stellaris (Opiz) Pouzar & Vězda

rangiformis Hoffm., Cladonia

ranunculospora Coppins & P.James, Arthopyrenia =
Anisomeridium ranunculosporum (Coppins & P.
James) Coppins

**ranunculosporum (Coppins & P.James) Coppins,
Anisomeridium**

rapax V.Wirth & Poelt, Rhizocarpon

rappii, Cladonia = Cladonia pulvinata (Sandst.) van
Herck & Aptroot

reactiva Alstrup & D.Hawksw., Kalaallia

reagens Norman, Lecanora

reagens (B.de Lesd.) W.L.Culb., Ramalina =
Ramalina farinacea (L.) Ach.

recedens (Taylor) Arnold, Aspicilia = Lobothallia
recedens (Taylor) A.Nordin et al.

recedens (Taylor) Nyl., Lecanora = Lobothallia
recedens (Taylor) A.Nordin et al.

recedens (Taylor) A.Nordin et al., Lobothallia

recessa (Stirt.) Hertel et al., Fuscidea

recessa H.Magn, Lecidea = Miriquidica lulensis
(Hellb.) Hertel & Rambold

recondita S.Tibell & Tibell, Atla

reddenda Stirt., Parmelia = Punctelia reddenda
(Stirt.) Krog

reddenda (Stirt.) Krog, Punctelia

reducta (Th.Fr.) Zschacke, Gloeopyrenia =
Protothelenella sphinctrinoidella (Nyl.) H.Mayrhofer
& Poelt

reducta H.Magn., Ionaspis = Hymenelia
heteromorpha (Kremp.) Lutzoni

reducta (Th.Fr.) Hellb., Microglæna =
Protothelenella sphinctrinoidella (Nyl.) H.Mayrhofer
& Poelt

reducta var. glacialis (Vain.) Zahlbr., Microglæna =
Protothelenella sphinctrinoidella (Nyl.) H.Mayrhofer
& Poelt

reducta (Th.Fr.) Räsänen, Protothelenella =
Protothelenella sphinctrinoidella (Nyl.) H.Mayrhofer
& Poelt

reducta Th.Fr., Pyrenopsis

reducta (Th.Fr.) Vain., Thelenella = Protothelenella
sphinctrinoidella (Nyl.) H.Mayrhofer & Poelt

reducta var. glacialis Vain., Thelenella =
Protothelenella sphinctrinoidella (Nyl.) H.Mayrhofer
& Poelt

reductum Th. Fr., Rhizocarpon

reflexa (Nyl.) Lettau, Candelariella

regularis Körb., Sarcogyne

rehmii Zschacke, Thelidium

rei Schaer., Cladonia

rejecta Th.Fr., Blastenia = Lecidella carpathica Körb.

rejecta Th.Fr., Verrucaria

relanderi Räsänen, Lecidea = Calvitimela aglaea
(Sommerf.) Hafellner

relicta Arup & Vondrák, Blastenia

renitens (Grummann) Döbbeler, Epigloea

repanda auct., Dirina = Dirina massiliensis Durieu &
Mont.

repanda f. stenhammari (Fr. ex Stenh.) Clauzade &
Cl.Roux, Dirina = Dirina massiliensis Durieu &
Mont.

repleta Czarnota & Coppins, Agonimia

resupinatum (L.) Ach., Nephroma

resupinatum (L.) Arnold, Nephromium = Nephroma
resupinatum (L.) Ach.

retecta Zschacke, Verrucaria = Verrucaria aquatilis
Mudd

reticulata (Schaer.) Th.Fr., Gyrophora = Umbilicaria
decussata (Vill.) Zahlbr.

reticulata (Schaer.) Carestia, Umbilicaria =
Umbilicaria decussata (Vill.) Zahlbr.

reticulatum Zopf, Echinothecium =
Sphaerellothecium reticulatum (Zopf) Etayo

reticulatum (Zopf) Etayo, Sphaerellothecium

retifoveata Vitik., Peltigera

retigena (Hedl.) Zahlbr., Bacidia = Catillaria retigena
(Hedl.) H.Magn.

retigena (Hedl.) H.Magn., Catillaria

retigena Hedl., Lecidea = Catillaria retigena (Hedl.)
H.Magn.

retigera Poelt & Döbbeler, Vezdaea

retracta H.Magn., Lecanora

revertens Nyl., Spilonema

revoluta (Flörke) Hale, Hypotrachyna

revoluta Flörke, Parmelia = Hypotrachyna revoluta
(Flörke) Hale

rhabdogena (Norman) Th.Fr., Lecidea = Micarea
rhabdogena (Norman) Hedl.

rhabdogena (Norman) Hedl., Micarea

rhabdosporum W.Gams, Acremonium

rhaetica Hepp ex Th.Fr., Lecidea = Farnoldia
micropsis (A.Massal.) Hertel

rhagadiella (Nyl.) Th.Fr., Lecidea

**rhagadiza (Nyl.) K.Knudsen & L.Arcadia,
Myriospora**

rhagadiza (Nyl.) M.Westb., Silobia = Myriospora
rhagadiza (Nyl.) K.Knudsen & L.Arcadia

**rheitrophila (Zschacke) C.Keller et al.,
Hydropunctaria**

rheitrophila Zschacke, Verrucaria = Hydropunctaria
rheitrophila (Zschacke) C.Keller et al.

rheocarpa Poelt & Döbbeler, Vezdaea

rhexoblephara (Nyl.) H.Olivier, Lecanactis =
Rhexophiale rhexoblephara (Nyl.) Hellb.

rhexoblephara (Vain.) Sacc., Pharcidia =
Zwackhiomyces dispersus (J.Lahm ex Körb.) Triebel
& Grube

rhexoblephara (Nyl.) Hellb., Rhexophiale

rhexoblephara (Nyl.) Zahlbr., Sagirolechia =
Rhexophiale rhexoblephara (Nyl.) Hellb.

rhexoblephara Vain., Verrucaria = Zwackhiomyces
dispersus (J.Lahm ex Körb.) Triebel & Grube

rhizobola (Nyl.) Alstrup, Acarospora

rhizobola Nyl., Lecidea = Acarospora rhizobola (Nyl.) Alstrup

rhizobola (Nyl.) K.Knudsen & Lendemer, Trimmatothelopsis = Acarospora rhizobola (Nyl.) Alstrup

rhizocarpicola Diederich et al., Tremella

rhizocarpoides Malme, Lecidea = Schaereria fuscocinerea (Nyl.) Clauzade & Cl.Roux

rhodinula (Nyl.) H.Olivier, Gyalecta

rhodinula (Nyl.) Blomb. & Forssell, Ionaspis = Gyalecta rhodinula (Nyl.) H.Olivier

rhodinula Nyl., Lecidea = Gyalecta rhodinula (Nyl.) H.Olivier

rhodocarpa (Körb.) Th.Fr., Varicellaria

rhodoleuca (Th.Fr.) Brodo, Ochrolechia

rhodoleuca Th.Fr., Pertusaria = Ochrolechia rhodoleuca (Th.Fr.) Brodo

rhodopis Th.Fr. & Almq., Bacidia = Bibbya vermifera (Nyl.) Kistenich et al.

rhodopis (Sommerf.) Lutzoni, Hymenelia

rhodopis (Sommerf.) Blomb. & Forssell, Ionaspis = Hymenelia rhodopis (Sommerf.) Lutzoni

rhodopis var. melanopis (Sommerf.) Zahlbr., Ionaspis = Hymenelia heteromorpha (Kremp.) Lutzoni

rhodosphaera Th.Fr. & Hulting ex Th.Fr., Catillaria = Mycobilimbia pilularis (Körb.) Hafellner & Türk

rhodosticta (Taylor) Hensen, Cryptothele

rhodosticta auct. p.m.p., Pyrenopsis = Pyrenopsis subareolata Nyl.

rhypariza (Nyl.) Hafellner, Bryodina

rhypariza (Nyl.) Poelt, Bryonora = Bryodina rhypariza (Nyl.) Hafellner

rhypariza Nyl., Lecanora = Bryodina rhypariza (Nyl.) Hafellner

rhypariza subsp. vicaria Th.Fr., Lecanora = Lecanora vicaria (Th.Fr.) Vain.

rhyparizae Arnold, Dactylospora = Sclerococcum rhyparizae (Arnold) Ertz & Diederich

rhyparizae (Arnold) Rehm, Lecicographa = Sclerococcum rhyparizae (Arnold) Ertz & Diederich

rhyparizae (Arnold) Ertz & Diederich, Sclerococcum

rhyparodes Nyl., Leptogium = Scytinium callopismum (A.Massal.) Otálora et al.

rhypona (Ach.) A.Massal., Arthopyrenia = Naetrocymbe rhypona (Ach.) R.C.Harris

rhypona (Ach.) Vain., Metasphaeria = Naetrocymbe rhypona (Ach.) R.C.Harris

rhypona (Ach.) R.C.Harris, Naetrocymbe

ricasoliae Vouaux, Karschia = Sclerococcum lobariellum (Nyl.) Ertz & Diederich

richardii (Lamy ex Nyl.) Zahlbr., Rhizocarpon

ridescens (Nyl.) Zahlbr., Rhizocarpon

ridniense Räsänen, Rhizocarpon = Rhizocarpon alpicola (Anzi) Rabenh.

rigida (Du Rietz) Llano, Agyrophora = Umbilicaria rigida (Du Rietz) Frey

rigida Du Rietz, Gyrophora = Umbilicaria rigida (Du Rietz) Frey

rigida (Du Rietz) Frey, Umbilicaria

rigidula (B.de Lesd.) Tønsberg, Lepraria

rimalis Pers., Opegrapha = Alyxoria varia (Pers.) Ertz & Tehler

rimata (Nyl.) Zwackh, Enterographa = Schismatomma graphidioides (Leight.) Zahlbr.

rimata Flot. ex Nyl., Platygrapha = Schismatomma graphidioides (Leight.) Zahlbr.

rimatum (Nyl.) Almq., Schismatomma = Schismatomma graphidioides (Leight.) Zahlbr.

rimicola H.Magn., Lecanora

rimiseda Nyl., Lecidea = Lecidea confluentula Müll. Arg.

rimosella Nyl., Verrucaria

rimosicola (Leight. ex Mudd) Hepp ex Stein., Phaeospora

rimosulum Ceyn.-Gield., Thelidium

rimulicola (Müll.Arg.) Hafellner, Dactylospora =
Sclerococcum rimulicola (Müll.Arg.) Ertz &
Diederich

**rimulicola (Müll.Arg.) Ertz & Diederich,
Sclerococcum**

rimulosa (H.Magn.) Vitik., Aspicilia

rimulosa H.Magn., Lecanora = Aspicilia rimulosa
(H.Magn.) Vitik.

rimulosum Th.Fr., Thalloidima = Toninia
squalescens (Nyl.) Th.Fr.

rinodinae (Vězda) R.Sant., Lecanographa

rinodinae Vězda, Opegrapha = Lecanographa
rinodinae (Vězda) R.Sant.

rinodinae Diederich & M.S.Christ., Tremella

rinodinoides Anzi, Buellia = Rinodina rinodinoides
(Anzi) H.Mayrhofer & Scheid.

**rinodinoides (Anzi) H.Mayrhofer & Scheid.,
Rinodina**

riparia (Müll.Arg.) Zahlbr., Catillaria = Kiliasia
philippea (Mont.) Hafellner

riparia (Müll.Arg.) Hafellner, Kiliasia = Kiliasia
philippea (Mont.) Hafellner

riparium Räsänen, Rhizocarpon = Rhizocarpon
geographicum (L.) DC. subsp. kittilense (Räsänen)
Ahti

riparium subsp. lindsayanum (Räsänen) J.W.
Thomson, Rhizocarpon = Rhizocarpon
geographicum (L.) DC. subsp. lindsayanum
(Räsänen) Ahti

rittokense (Hellb.) Th.Fr., Rhizocarpon

rivana (De Not.) D.Hawksw., Dacampiosphaeria =
Pyrenidium actinellum Nyl.

rivana (De Not.) Sacc., Leptosphaeria = Pyrenidium
actinellum Nyl.

rivulare Norman, Endocarpon = Agonimia tristicula
(Nyl.) Zahlbr.

rivulare (Ach.) Mont., Leptogium

rivulare var. crenatum (Nyl.) Vain., Leptogium =
Leptochidium crenatum (Nyl.) P.M.Jørg.

rivularis (Eitner) Nowak & Tobol., Gyalidea

rivulicola (H.Magn.) Räsänen, Aspicilia

rivulicola (Vain.) Zahlbr., Bacidia

rivulicola (Vain.) Vain., Bilimbia = Bacidia
rivulicola (Vain.) Zahlbr.

rivulicola H.Magn., Lecanora = Aspicilia rivulicola
(H.Magn.) Räsänen

rivulicola Vain., Lecidea = Bacidia rivulicola (Vain.)
Zahlbr.

**rivulorum (Arnold) Dalla Torre & Sarnth.,
Dermatocarpon**

rivulorum H.Magn., Lecanora = Aspicilia aquatica
(Fr.) Körb.

rivulorum H.Magn., Stereocaulon

**rivulorum (Kernst.) Cl. Roux & Nav.-Ros.,
Stigidium**

rivulosa Ach., Lecidea = Fuscidea cyathoides (Ach.)
V.Wirth & Vězda

robergei (Mont. & Desm.) Weese, Nectriella =
Pronectria robergei (Mont. & Desm.) Lowen

robergei (Mont. & Desm.) Lowen, Pronectria

roboris (Duf. ex Nyl.) Arnold, Rinodina

robustus Th.Fr., Pilophorus

robustus subsp. cereolus (Ach.) Th.Fr., Pilophorus =
Pilophorus cereolus (Ach.) Hellb.

robustus f. distans Hulting, Pilophorus = Pilophorus
strumaticus Nyl. ex Cromb.

roesleri (Schaer.) Bowler & Rundel, Fistulariella =
Ramalina roesleri (Hochst. ex Schaer.) Hue

roesleri (Hochst. ex Schaer.) Hue, Ramalina

rolfii Diederich & Zhurb., Taeniolella

roridulum (Th.Fr.) H.Olivier, Rhizocarpon

rosaceum (Anzi) Zahlbr., Arthothelium = Arthonia
ruana A.Massal.

roscida (Sommerf.) Arnold, Rinodina

roscidum Ach., Calicium = Calicium adspersum
Pers.

rosei Sérus., Porina

rosella (Pers.) De Not., Bacidia

rosellizans S.Ekman, Bacidia

rosellovirens Nyl., Gyalecta = Gyalecta subclausa Anzi

roseola Arnold, Gyalecta = Gyalidea roseola (Arnold) Lettau

roseola (Arnold) Lettau, Gyalidea

roseotincta Coppins & Tønsberg, Lecidea

roseum auct., Illosporium = Marchandiomyces corallinus (Roberge) Diederich & D.Hawksw.

roseum Mart., Illosporium = Illosporium carneum Fr.

roseus Pers., Baeomyces = Dibaeis baeomyces (L.f.) Rambold & Hertel

rosulans (Th.Fr.) Zahlbr., Placynthium

rosulata (Th.Fr.) H.Magn., Acarospora

rosulata (Anzi) H.Olivier, Toninia = Thalloidima rosulatum Anzi

rosulatum Anzi, Thalloidima

rousselii auct., Biatorella = Biatorella hemisphaerica Anzi

rouselii De Not., Biatorella = Biatorella fossarum (Dufour ex Fr.) Th.Fr.

rouxii S.Ekman & Tønsberg, Lecanora

ruana A.Massal., Arthonia

ruanideum (Nyl.) Arnold, Arthothelium = Arthonia ruana A.Massal.

ruanum (A.Massal.) Körb., Arthothelium = Arthonia ruana A.Massal.

rubefaciens Ellis & Everh., Nectria = Trichonectria

rubefaciens (Ellis & Everh.) Diederich & Schroers

rubefaciens (Ellis & Everh.) Cole & D.Hawksw., Nectriopsis = Trichonectria rubefaciens (Ellis & Everh.) Diederich & Schroers

rubefaciens (Ellis & Everh.) Diederich & Schroers, Trichonectria

rubella (Hoffm.) A.Massal., Bacidia

rubella var. porriginosa (Turner) H.Olivier, Bacidia = Bacidia rubella (Hoffm.) A.Massal.

rubella Nyl., Thelopsis

rubescens Vain., Chaenothecopsis

rubescens Sandst., Opegrapha = Alyxoria ochrocheila (Nyl.) Ertz & Tehler

rubescens (L.) Vain., Parmelia = Cetreliia olivetorum (Nyl.) W.L.Culb. & C.F.Culb.

rubescens Th.Fr., Rhizocarpon

rubescens Räsänen, Xylographa

rubescens var. carneopallida Räsänen, Xylographa = Xylographa carneopallida (Räsänen) T.Sprib.

rubicunda Stirt., Usnea

rubiformis (Ach.) Wahlenb., Lecidea = Psora

rubiformis (Ach.) Hook.

rubiformis (Ach.) Hook., Psora

rubiginans (Nyl.) H.Magn., Lecidea = Pyrrhospora

rubiginans (Nyl.) P.James & Poelt

rubiginans (Nyl.) P.James & Poelt, Pyrrhospora

rubiginosa Hafellner, Dactylospora = Sclerococcum

rubiginosum (Hafellner) Olariaga et al.

rubiginosa (Ach.) Bory, Pannaria

rubiginosum (Hafellner) Olariaga et al., Sclerococcum

rubina ("Vill.") Ach., Lecanora = Rhizoplaca chrysoleuca (Sm.) Zopf

rubra (Hoffm.) A.Massal., Gyalecta = Gyalecta ulmi (Sw.) Zahlbr.

ruderum DC., Verrucaria

rudeta Ach., Lecidea = Placynthium rudetum (Ach.) Zahlbr.

rudetum (Ach.) Blom. & Forssell, Lecothecium = Placynthium rudetum (Ach.) Zahlbr.

rudetum (Ach.) Zahlbr., Placynthium

rufescens (Ach.) Krempelh., Acarospora = Myriospora rufescens (Ach.) Hepp ex Uloth

rufescens (Ach.) Breuss, Catapyrenium = Placidium

rufescens (Ach.) A.Massal.

rufescens auct., Dermatocarpon = Placidium

lachneum (Ach.) B.de Lesd.

rufescens (Ach.) Hepp ex Uloth, Myriospora

rufescens Pers., Opegrapha = Pseudoschismatomma

rufescens (Pers.) Ertz & Tehler

rufescens (Weiss) Humb., Peltigera

rufescens f. lacera Gyeln., Peltigera = Peltigera ponjensis Gyeln.

rufescens (Ach.) A.Massal., Placidium

**rufescens (Pers.) Ertz & Tehler,
Pseudoschismatomma**

rufescens (Ach.) M.Westb. & Wedin, Silobia = Myriospora rufescens (Ach.) Hepp ex Uloth

rufescentis (Vouaux) D.Hawksw., Dacampia

rufescentis Vouaux, Pleospora = Dacampia

rufescentis (Vouaux) D.Hawksw.

rufidula (Graewe) Zahlbr., Bacidia = Biatora rufidula (Graewe) S.Ekman & Printzen

rufidula (Graewe) S.Ekman & Printzen, Biatora

rufidula (Graewe) Stizenb., Lecidea = Biatora

rufidula (Graewe) S.Ekman & Printzen

rufofusca H.Magn., Lecania

rufofusca (Anzi) Nyl., Lecidea = Myochroidea

rufofusca (Anzi) Printzen et al.

rufofusca (Anzi) Printzen et al., Myochroidea

rufofuscella Servít, Verrucaria

rufonigra (Tuck.) Nyl., Lecidea = Psorula rufonigra (Tuck.) Gotth.Schneid.

rufonigra (Tuck.) Gotth.Schneid., Psorula

rufus (Huds.) Rebert., Baeomyces

rufus var. carneofulvescens Räsänen, Baeomyces = Baeomyces rufus (Huds.) Rebert.

rugifera Vain., Lecidea = Psorinia conglomerata (Ach.) Gotth.Schneid.

rugifera Nyl., Umbilicaria = Umbilicaria virginis Schaer.

ruginosa (Tuck.) Kistenich et al., Bibbya

ruginosa Tuck., Lecidea = Bibbya ruginosa (Tuck.) Kistenich et al.

ruginosa (Tuck.) Herre, Toninia = Bibbya ruginosa (Tuck.) Kistenich et al.

rugosa (Nyl.) Nyl., Lecanora = Lecanora chlarotera Nyl.

rugosa (G.Thor) Ertz & Diederich, Lichenothelia

rugosa (Körb.) Coppins & Fryday, Porpidia

rugosella Zahlbr., Lecanora = Lecanora chlarotera Nyl.

rugosum G.Thor, Lichenostigma = Lichenothelia

rugosa (G.Thor) Ertz & Diederich

rugulosa Körb., Acarospora

rugulosa (Kremp. ex Körb.) Alm., Allarthonia = Arthonia apatetica (A.Massal.) Th.Fr.

rugulosa Kremp. ex Körb., Arthonia = Arthonia apatetica (A.Massal.) Th.Fr.

rugulosa (Hepp) Lettau, Catillaria

rugulosa, Lecania = Catillaria rugulosa (Hepp) Lettau

rugulosa D.Hawksw., Nigropuncta

rugulosa (Körb.) Vězda, Polysporinopsis = Acarospora rugulosa Körb.

rugulosa Vain., Usnea = Usnea barbata (L.) Weber ex F.H.Wigg.

rugulosus Nyl. sensu lat., Endococcus

runcinata (With.) J.R.Laundon, Anaptychia

rupestre (Sw.) Rabenh., Collema = Collema flaccidum (Ach.) Ach.

rupestre Pers., Racodium

rupestris (Scop.) Ach., Lecidea = Protoblastenia

rupestris (Scop.) J.Steiner

rupestris Pers., Opegrapha

rupestris quoad specim. scand., Pertusaria = Pertusaria pertusa (Weigel) Tuck. var. pertusa

rupestris (Scop.) J.Steiner, Protoblastenia

rupestris var. calva (Dicks.) J.Steiner, Protoblastenia = Protoblastenia calva (Dicks.) Zahlbr.

rupestris var. incrustans (DC.) Zahlbr., Protoblastenia = Protoblastenia incrustans (DC.) J. Steiner

- rupestris var. irrubata (Ach.) Szatala, Protoblastenia = Protoblastenia rupestris (Scop.) J.Steiner
- rupestris (Pers.) Donk, Rhacodiopsis = Racodium rupestre Pers.
- rupestris (Scop.) F.H.Wigg, Verrucaria = Protoblastenia rupestris (Scop.) J.Steiner
- rupestris Schrad., Verrucaria = Verrucaria muralis Ach.
- rupicola (Nyl.) P.James, Lecania = Lecania baeomma (Nyl.) P.James & J.R.Laundon
- rupicola (L.) Zahlbr., Lecanora**
- rupicola var. bicincta (Ramond) Clauzade & Cl. Roux, Lecanora = Lecanora bicincta Ramond
- rupicola var. leucogaea (Ach.) R.Sant., Lecanora = Lecanora swartzii (Ach.) Ach.
- rupicola (L.) Zahlbr. subsp. rupicola, Lecanora**
- rupicola (L.) Zahlbr. subsp. subplanata (Nyl.) Leuckert & Poelt, Lecanora**
- rupifraga (A.Massal.) Arnold, Staurothele**
- russula Körb. ex Nyl., Belonia = Gyalecta russula (Körb. ex Nyl.) Baloch et al.
- russula var. terrigena (Eitner) Keissl., Belonia = Gyalecta incarnata (Th.Fr. & Graewe) Baloch & Lücking
- russula (Körb. ex Nyl.) Baloch et al., Gyalecta saanaënsis Räsänen, Rhizocarpon**
- saanaensis Pykälä, Verrucaria**
- sabuletorum (Schreb.) Lettau, Bacidia = Bilimbia sabuletorum (Schreb.) Arnold
- sabuletorum (Schreb.) Arnold, Bilimbia**
- sabuletorum (Fr.) Stein, Gongylia = Baeomyces rufus (Huds.) Rebert.
- sabuletorum (Schreb.) Hafellner, Mycobilimbia = Bilimbia sabuletorum (Schreb.) Arnold
- sabuletorum (Schreb.) Hafellner in Hafellner & Türk, Myxobilimbia = Bilimbia sabuletorum (Schreb.) Arnold
- saccata (L.) Ach., Solorina**
- saepincola (Ach.) Arnold, Lecanora = Lecanora symmicta (Ach.) Ach.
- saepincola var. ramulicola H.Magn., Lecidea = Palicella filamentosa (Stirt.) Rodr.Flakus & Printzen
- saepincola Vain., Verrucaria**
- saeviensis Räsänen, Strongyloopsis = Chaenothecopsis savonica (Räsänen) Tibell
- saeviensis Räsänen, Strongyloopsis = Chaenothecopsis pusiola (Ach.) Vain.
- sakkobanensis Zschacke, Polyblastia**
- salicicola (Nyl.) Hue, Arthonia = Arthonia apatetica (A.Massal.) Th.Fr.
- salicicola H.Magn., Lecanora**
- salicinum Pers., Calicium**
- salicis A.Massal., Arthopyrenia**
- salicum Pers., Athelia = Athelia epiphylla Pers.
- saligna (Schrad.) Zahlbr., Lecanora**
- salina Erichsen, Caloplaca = Flavoplaca marina (Wedd.) Arup et al.
- salina H.Magn., Lecanora = Myriolecis salina (H. Magn.) Šliwa et al.
- salina (H.Magn.) Šliwa et al., Myriolecis**
- salina Degel., Rinodina = Rinodina gennarii Bagl.
- salisburyi D.Hawksw. & Sivan., Lasiosphaeriopsis**
- salweyi (Leight. ex Nyl.) A.L.Sm., Acrocordia**
- salweyi (Nyl.) Zahlbr., Arthopyrenia = Acrocordia salweyi (Leight. ex Nyl.) A.L.Sm.
- sambuci (Pers.) Nyl., Lecanora = Myriolecis sambuci (Pers.) Clem.
- sambuci Pers., Lichen = Myriolecis sambuci (Pers.) Clem.
- sambuci van den Boom et al., Micarea**
- sambuci (Pers.) Clem., Myriolecis**
- sambucina (Körb.) Arnold, Lecania**
- sampaiana (Tav.) P.M.Jørg., Fuscopannaria = Nevesia sampaiana (Tav.) P.M.Jørg et al.
- sampaiana (Tav.) P.M.Jørg et al., Nevesia**

sampaiana Tav., Pannaria = Nevesia sampaiana (Tav.) P.M.Jørg et al.

sandstedei Zopf, Diplodina = Epicladonia sandstedei (Zopf) D.Hawksw.

sandstedei (Zopf) D.Hawksw., Epicladonia

sanguinarioides Kantvilas, Mycoblastus

sanguinarius (L.) Norman, Mycoblastus

sanguinarius var. alpinus (Fr.) Stein, Mycoblastus = Mycoblastus alpinus (Fr.) Th.Fr. ex Hellb.

sanguinarius var. endorhodus (Th.Fr.) Stein, Mycoblastus = Mycoblastus sanguinarius (L.) Norman

sanguinea Kremp., Aspicilia = Bellemerea sanguinea (Kremp.) Hafellner & Cl.Roux

sanguinea (Kremp.) Hafellner & Cl.Roux, Bellemerea

sanguinea (Kremp.) Mig., Lecanora = Bellemerea sanguinea (Kremp.) Hafellner & Cl.Roux

sanguineoatra (Wulfen) Fryday et al., Bryobilimbia

sanguineoatra (Wulfen) Ach., Lecidea = Bryobilimbia sanguineoatra (Wulfen) Fryday et al.

santessonii Lowen & D.Hawksw., Hobsonia = Hobsoniopsis santessonii (Lowen & D.Hawksw.) D. Hawksw.

santessonii (Lowen & D.Hawksw.) D.Hawksw., Hobsoniopsis

santessonii Hafellner, Karschia

santessonii (P.M.Kirk & Spooner) R.Sant., Lichenopeltella

santessonii P.M.Kirk & Spooner in Spooner & P. M. Kirk, Micropeltopsis = Lichenopeltella santessonii (P.M.Kirk & Spooner) R.Sant.

santessonii Lowen & D.Hawksw., Nectriella = Pronectria santessonii (Lowen & D.Hawksw.) Lowen

santessonii (Lowen & D.Hawksw.) Lowen, Pronectria

santessonii Timdal, Rhizocarpon

santessonii Erichsen, Verrucaria = Verrucaria ditmarsica Erichsen

santessonii D.Hawksw., Vouauxiomyces

santosii Argüello & A.Crespo, Lepraria = Lepraria lobificans Nyl.

sapinea (Fr.) Zahlbr., Lecidea = Trapeliopsis flexuosa (Fr.) Coppins & P.James

sapinea, Lecidea = Puttea exsequens (Nyl.) Printzen & Davydov

sarcodea Nyl., Lecidea = Bryonora curvescens (Mudd) Poelt

sarcogyniza Nyl., Lecidea = Lecidea diducens Nyl.

sarcogynoides Körb., Lecidea

sarcopidoides (Körb.) Zahlbr., Caloplaca = Caloplaca obscurella (J.Lahm ex Körb.) Th.Fr.

sarcopidoides (A.Massal.) A.L.Sm., Lecanora

sarcopis (Ach.) Ach., Lecanora = Lecanora saligna (Schrad.) Zahlbr.

sarcopis f. saxicola Nyl., Lecanora = Lecanora chlorophaeodes Nyl.

sarcopisoides (A.Massal.) Ohlert, Lecidea = Lecanora sarcopidoides (A.Massal.) A.L.Sm.

sareptana (Tomin) H.Mayrhofer & Poelt, Phaeorrhiza

sareptana (Tomin) H.Mayrhofer & Poelt var. sphaerocarpa (Th.Fr.) H.Mayrhofer & Poelt, Phaeorrhiza

sareptana (Tomin) H.Magn., Rinodina = Phaeorrhiza sareptana (Tomin) H.Mayrhofer & Poelt

sarmentosa (Ach.) Ach., Alectoria

sarmentosa var. cincinnata (Fr.) Nyl., Alectoria = Alectoria sarmentosa (Ach.) Ach. subsp. vexillifera (Nyl.) D.Hawksw.

sarmentosa (Ach.) Ach. subsp. sarmentosa, Alectoria

sarmentosa (Ach.) Ach. subsp. vexillifera (Nyl.) D. Hawksw., Alectoria

sarothamni Vain., Bacidia = Scoliciosporum sarothamni (Vain.) Vězda

sarothamni (Vain.) Vězda, Scoliciosporum

satakuntensis Vain., Lecidea = Miriquidica
plumbeoatra (Vain.) A.J.Schwab & Rambold

saturninum (Dicks.) Nyl., Leptogium

sauteri (Körb.) G.Winter, Didymosphaeria =
Polycoccum tryptethelioides (Th.Fr.) R.Sant.

sauteri (Körb.) Vouaux, Discothecium = Polycoccum
tryptethelioides (Th.Fr.) R.Sant.

sauteri Körb., Polycoccum = Polycoccum
tryptethelioides (Th.Fr.) R.Sant.

sauteri f. margarodes Norm., Polycoccum =
Polycoccum tryptethelioides (Th.Fr.) R.Sant.

savonica (Räsänen) Tibell, Chaenothecopsis

savonicum Räsänen, Mycocalicium =
Chaenothecopsis savonica (Räsänen) Tibell

saxatile (Schaer.) Ertz & Diederich, Sclerococcum

saxatile H.Magn., Stereocaulon

saxatile var. evolutoides (H.Magn.) Carlin & Carl.-
Silv., Stereocaulon = Stereocaulon saxatile H.Magn.

saxatile var. paschaleoides ined., Stereocaulon =
Stereocaulon saxatile H.Magn.

saxatile f. paschaleoides (Hav.) I.M.Lamb,
Stereocaulon = Stereocaulon grande (H.Magn.) H.
Magn.

saxatile var. serpens (Th.Fr.) Carlin & Carl.-Silv.,
Stereocaulon = Stereocaulon saxatile H.Magn.

saxatilis (Schaer.) Körb., Buellia = Sclerococcum
saxatile (Schaer.) Ertz & Diederich

saxatilis (Schaer.) Hafellner, Dactylospora =
Sclerococcum saxatile (Schaer.) Ertz & Diederich

saxatilis (Schaer.)Rehm, Karschia = Sclerococcum
saxatile (Schaer.) Ertz & Diederich

saxatilis DC., Opegrapha = Opegrapha rupestris Pers.

saxatilis (L.) Ach., Parmelia

saxatilis subsp. fraudans Nyl., Parmelia = Parmelia
fraudans (Nyl.) Nyl.

**saxenii (Erichsen) M. Hauck & V. Wirth,
Bacidina**

saxicola A.Massal., Arthopyrenia = Naetrocymbe
saxicola (A.Massal.) R.C.Harris

saxicola (Hoffm.) Nordin, Caloplaca

saxicola (Pollich) Ach., Lecanora =
Protoparmeliopsis muralis (Schreb.) M.Choisy

saxicola (A.Massal.) H.Riedl, Leiophloea =
Naetrocymbe saxicola (A.Massal.) R.C.Harris

saxicola (A.Massal.) R.C.Harris, Naetrocymbe

saxicola Ach., Opegrapha = Opegrapha rupestris
Pers.

saxicola (A.Massal.) Coppins, Pyrenocollema =
Naetrocymbe saxicola (A.Massal.) R.C.Harris

saxicola (Zahlbr.) H.Magn., Thelocarpon

saxiculum subsp. pachylepideum Hellb., Placidium
= Squamarina pachylepidea (Hellb.) Poelt

saxifragarum (Poelt) Arup et al., Athallia

saxifragarum Poelt, Caloplaca = Athallia
saxifragarum (Poelt) Arup et al.

saximontana R.A.Anderson & W.A. Weber,
Parmelia = Montanelia tominii (Oxner) Divakar et al.

saxonicum Bachm., Stereocaulon = Stereocaulon
pileatum Ach.

saxorum A.Massal., Buellia

saxorum H.Magn., Lecanora = Lecanora helicopsis
(Wahlenb.) Ach.

scaber Scop., Lichen = Lepra albescens (Huds.)
Hafellner

scabra (Pers.) Th.Fr., Acarospora = Glypholecia
scabra (Pers.) Müll.Arg.

scabra (Pers.) Müll.Arg., Glypholecia

scabra (Taylor) Hertel & Leuckert, Lecidella

scabrata Nyl., Usnea = Usnea barbata (L.) Weber ex
F.H.Wigg.

scabrida Hedl. ex H.Magn., Acarospora =
Myriospora scabrida (Hedl. ex H.Magn.) K.Knudsen
& L. Arcadia

scabrida (Degel.) R.Sant., Aspicilia = Aspicilia
epiglypta (Norrl. ex Nyl.) Hue

scabrida Degel., Lecanora = Aspicilia epiglypta
(Norrl. ex Nyl.) Hue

scabrida (Hedl. ex H.Magn.) K.Knudsen & L. Arcadia, Myriospora

scabrida (H.Magn.) M.Westb., Silobia = Myriospora
scabrida (Hedl. ex H.Magn.) K.Knudsen & L. Arcadia

scabridula Hedl., Lecidea

scabridula H.Magn., Verrucaria = Verrucaria
subfuscata H.Magn.

scabriuscula (Delise) Nyl., Cladonia

scabrosa (Søchting et al.) S.Y.Kond. et al., Blastenia

scabrosa (Ach.) A.Massal., Buellia = Epilichen
scabrosus (Ach.) Clem.

scabrosa var. cinerascens Th.Fr., Buellia = Epilichen
glauconigellus (Nyl.) Hafellner

scabrosa (Ach.) Rehm, Karschia = Epilichen
scabrosus (Ach.) Clem.

scabrosa f. cinerascens (Th.Fr.) Vain., Lecidea =
Epilichen glauconigellus (Nyl.) Hafellner

scabrosa Th.Fr., Peltigera

scabrosa var. occidentalis E.Dahl, Peltigera =
Peltigera occidentalis (E.Dahl) Kristinsson

scabrosella Holt.-Hartw., Peltigera

scabrosus (Ach.) Clem., Epilichen

scalaris (Ach.) M.Choisy, Hypocenomyce

scalaris (Ach.) Ach., Lecidea = Hypocenomyce
scalaris (Ach.) M.Choisy

scalaris (Ach. ex Lilj.) Hook, Psora = Hypocenomyce
scalaris (Ach.) M.Choisy

scalaris var. vulgaris (Th.Fr.) Räsänen, Psora =
Hypocenomyce scalaris (Ach.) M.Choisy

scandinavica B.de Lesd., Xanthoria = Rusavskia
sorediata (Vain.) S.Y.Kondr. & Kärnefelt

scandinavicum Th.Fr., Arthothelium

scandinavicum (Th.Fr.) Vain., Mycardothelium =
Arthothelium scandinavicum Th.Fr.

scandinavaica (Th.Fr.) Nyl., Arthonia = Arthothelium
scandinavicum Th.Fr.

scanica H.Magn., Lecanora

schaereri De Not., Buellia

schaereri sensu Nádov., Calicium = Calicium
lenticulare Ach.

schaereri (Fr.) R.Sant., Catapyrenium = Placocarpus
schaereri (Fr.) Breuss

schaereri (De Not.) Zahlbr., Chaenotheca =
Chaenotheca cinerea (Pers.) Tibell

schaereri Körb., Endocarpon = Endocarpon pusillum
Hedw.

schaereri A.Massal., Pannaria = Psorotichia schaeereri
(A.Massal.) Arnold

schaereri auct., Pharcidia = Stigmatidium congestum
(Körb.) Triebel

schaereri (Fr.) Breuss, Placocarpus

schaereri (A.Massal.) Arnold, Psorotichia

schaereri (A.Massal.) Nyl., Pyrenopsis = Psorotichia
schaereri (A.Massal.) Arnold

schaereri (A.Massal.) Trevis., Stigmatidium

schaereri auct., Stigmatidium = Stigmatidium congestum
(Körb.) Triebel

schaereri (Fr.) Nyl., Verrucaria = Placocarpus
schaereri (Fr.) Breuss

schaererianum A.Massal., Sporodictyon

schindleri Servít, Verrucaria

schismatopis (Nyl.) Hue, Ionaspis = Hymenelia
heteromorpha (Kremp.) Lutzoni

schisticola Servít, Polyblastia

schistidii (Anzi) Arup et al., Calogaya

schistidii (Anzi) Zahlbr., Caloplaca = Calogaya
schistidii (Anzi) Arup et al.

schistidii (Anzi) Poelt, Fulgensia = Calogaya
schistidii (Anzi) Arup et al.

schraderi (Bernh.) Nyl., Leptogium = Scytinium
schraderi (Bernh.) Otálora et al.

schraderi (Bernh.) Otálora et al., Scytinium

sciastra (Ach.) Moberg, Phaeophyscia

sciastra (Ach.) Du Rietz, Physcia = Phaeophyscia
sciastra (Ach.) Moberg

sciastrella (Nyl.) Harm., Physcia = Phaeophyscia
nigricans (Flörke) Moberg

sciodes (Nyl.) H.Olivier, Rinodina = Rinodina
luridescens (Anzi) Arnold

scopulare (Nyl.) H.Olivier, Placodium = Athallia
scopularis (Nyl.) Arup et al.

scopularia (Nyl.) D.Hawksw., Lichenothelia

scopularia (Nyl.) Blomb. & Forssell, Microthelia =
Lichenothelia scopularia (Nyl.) D.Hawksw.

scopularis (Nyl.) Arup et al., Athallia

scopularis (Nyl.) Lettau, Caloplaca = Athallia
scopularis (Nyl.) Arup et al.

scopulicola (Nyl.) A.L.Sm., Bacidia

scopulorum (Retz.) Ach., Ramalina = Ramalina
siliquosa (Huds.) A.L.Sm.

scopulorum Haugan & Timdal, Squamarina

scortea (Ach.) Ach., Parmelia = Parmelina tiliacea
(Hoffm.) Hale

scortea f. borealis Norman ex Lynge, Parmelia =
Parmelina pastillifera (Harm.) Hale

**scotica (P.James) Lücking, Sérus. & Vězda,
Jamesiella**

scotina Wedd., Verrucaria = Hydropunctaria maura
(Wahlenb.) C.Keller et al.

scotinodes (Nyl.) Coppins, Catillaria

scotinospora (Nyl.) Hellb., Polyblastia = Henrica
melaspora (Taylor) Savić & Tibell

scotinum (Ach.) Fr., Leptogium = Scytinium
gelatinosum (With.) Otálora et al.

scotodes (Nyl.) Arnold, Thelidium

scotoplaca (Nyl.) H.Magn., Caloplaca = Rufoplaca
scotoplaca (Nyl.) Arup et al.

scotoplaca f. depauperata H.Magn., Caloplaca =
Rufoplaca subpallida (H.Magn.) Arup et al.

scotoplaca H.Magn., Lecidea = Lecidea lapicida
(Ach.) Ach. var. lapicida

scotoplaca (Nyl.) Arup et al., Rufoplaca

scripta (L.) Ach., Graphis

scrobiculata H.Magn., Acarospora

scrobiculata (Scop.) DC., Lobaria

scrobiculata (Scop.) Nyl. ex Cromb., Lobarina =
Lobaria scrobiculata (Scop.) DC.

scrobiculata Motyka, Usnea = Usnea barbata (L.)
Weber ex F.H.Wigg.

scrobiculatae Diederich & Etayo, Plectocarpon

scruposa subsp. subscruposa Nyl., Urceolaria =
Diploschistes muscorum (Scop.) R.Sant.

scruposus (Schreb.) Norman, Diploschistes

scruposus var. parasiticus (Sommerf.) Zahlbr.,
Diploschistes = Diploschistes muscorum (Scop.) R.
Sant.

sculpturata H.Magn., Catillaria = Kiliasia sculpturata
(H.Magn.) Kistenich et al.

sculpturata (H.Magn.) Kistenich et al., Kiliasia

sculpturata (H.Magn.) Timdal, Toninia = Kiliasia
sculpturata (H.Magn.) Kistenich et al.

scutata (Wulfen) Poetsch, Cetraria = Cetraria
sepincola (Ehrh.) Ach.

scutata auct., Cetraria = Tuckermannopsis
chlorophylla (Willd.) Hale

scutata (Ach.) Duby, Peltigera = Peltigera collina
(Ach.) Schrad.

scutellaris Bagl. & Carestia, Gyallecta = Gyalidea
scutellaris (Bagl. & Carestia) Lettau

scutellaris (Bagl. & Carestia) Lettau, Gyalidea

scutellata Hue, Pertusaria = Lepra albescens (Huds.)
Hafellner

scyphulifera Vain., Acarospora = Myriospora
rhagadiza (Nyl.) K.Knudsen & L.Arcadia

secernens H.Magn., Lecidea = Miriquidica deusta
(Stenh.) Hertel & Rambold

sedifolia (Scop.) Timdal, Toninia = Thalloidima
sedifolium (Scop.) Kistenich et al.

sedifolium (Scop.) Kistenich et al., Thalloidima

semilecanorinum Räsänen, Rhizocarpon =
Rhizocarpon geographicum (L.) DC. subsp.
geographicum

semipallens Nyl., Lecidea = Brianaria bauschiana
(Körb.) S.Ekman & M.Svensson

semipallida H.Magn, Lecanora = Myriolecis
semipallida (H.Magn.) Šliwa et al.

semipallida (H.Magn.) Šliwa et al., Myriolecis

semipinnata (J.F.Gmel.) Moberg, Physcia = Physcia
leptalea (Ach.) DC.

sendtneri Kremp., Polyblastia

separabilis (Nyl.) Arnold, Bacidia = Toniniopsis
separabilis (Nyl.) Gerasimova & A.Beck

separabilis Nyl., Lecidea = Toniniopsis separabilis
(Nyl.) Gerasimova & A.Beck

**separabilis (Nyl.) Gerasimova & A.Beck,
Toniniopsis**

separans Hulting, Pyrenopsis = Pyrenopsis pleiobola
Nyl.

sepincola (Ehrh.) Ach., Cetraria

sepincola (Ehrh.) Hale, Tuckermannopsis = Cetraria
sepincola (Ehrh.) Ach.

seposita Th.Fr., Biatorina = Aquacidia trachona
(Ach.) Aptroot

septemseptata Coppins, Eopyrenula

septemseptata (Hepp ex Zwackh) Swinscow, Porina
= Porina ahlesiana (Körb.) Zahlbr.

septentrionalis M.Westb. & Wedin, Acarospora

septentrionalis Holt.-Hartw., Bryonora

septentrionalis Hakul., Candelariella = Candelariella
placodizans (Nyl.) H.Magn.

septentrionalis Corner, Clavulinopsis = Multiclavula
corynoides (Peck) R.H.Petersen

septentrionalis H.Magn., Lecanora

septentrionalis Th.Fr., Lecidea

septentrionalis (Lyngé) Essl., Melanelia =
Melanohalea septentrionalis (Lyngé) O.Blanco et al.

**septentrionalis (Lyngé) O.Blanco et al.,
Melanohalea**

septentrionalis (Lyngé) Ahti, Parmelia =
Melanohalea septentrionalis (Lyngé) O.Blanco et al.

septentrionalis Lyngé, Polyblastia

septentrionalis Malme, Rinodina

septentrionalis Lyngé, Staurothele = Staurothele
clopima (Wahlenb.) Th.Fr.

sepulta A.Massal., Polyblastia

serenior (Vain.) Vain., Lecidea = Schaereria serenior
(Vain.) Vitik.

serenior (Vain.) Vitik., Schaereria

sernanderi H.Magn., Acarospora = Sarcogyne
lapponica (Ach. ex Schaer.) K.Knudsen & Kocourk.

sernanderi Du Rietz, Leptogium = Leptogium
rivulare (Ach.) Mont.

serpenticola (Suza) Räsänen, Aspicilia = Aspicilia
serpenticola A.Nordin

serpenticola A.Nordin, Aspicilia

serpenticola Räsänen, Lecanactis

serpenticola Suza, Lecanora = Aspicilia

serpenticola A.Nordin

serpenticola (Servít) Servít, Verrucaria

serrena A.Crespo et al., Parmelia

servitiana Gyeln., Pannaria = Fuscopannaria
ignobilis (Anzi) P.M.Jørg.

sessile (Pers.) Arnold, Acolium

sessile Pers., Calicium = Acolium sessile (Pers.)
Arnold

sessile (Pers.) Trevis., Cyphelium = Acolium sessile
(Pers.) Arnold

setacea (Ach.) Motyka, Alectoria = Bryoria capillaris
(Ach.) Brodo & D.Hawksw.

setacea (Ach.) Brodo & D.Hawksw., Bryoria =
Bryoria capillaris (Ach.) Brodo & D.Hawksw.

sheardii Tønsberg, Rinodina

shliidenii Räsänen, Lecidea = Lecanora marginata
(Schaer.) Hertel & Rambold

sibirica (H.Magn.) Søchting & Arup, Austroplaca

sibirica H.Magn., Caloplaca = Austroplaca sibirica
(H.Magn.) Søchting & Arup

sicula H.Mayrhofer & Poelt, Rinodina

siderella (Ach.) Ach., Opegrapha =
Pseudoschismatomma rufescens (Pers.) Ertz &
Tehler

siderolithica Müll.Arg., Lecidea

siebenhaariana (Körb.) Lettau, Blastenia =
Protoblastenia siebenhaariana (Körb.) J.Steiner

siebenhaariana (Körb.) J.Steiner, Protoblastenia

siebenhaariana var. terricola (Körb.) Hafellner &
Türk, Protoblastenia = Protoblastenia terricola (Anzi)
Lyng

silacea (Hoffm.) Ach., Lecidea

silaceus (Hoffm.) Ach., Lichen = Lecidea silacea
(Hoffm.) Ach.

sileciaca (H.Magn.) H.Magn., Acarospora =
Acarospora subfuscescens (Nyl.) H.Magn.

silénii Vain., Lecidea = Psorinia conglomerata (Ach.)
Gotth.Schneid.

silesiaca (A.Massal.) Zschacke, Staurothele =
Staurothele fissa (Taylor) Zwackh

silesiaca Motyka, Usnea

silesiacum B. Stein, Phylliscum = Phylliscum
demangeonii (Moug. & Mont.) Nyl.

silicea Servít, Verrucaria = Verrucaria funkii
(Spreng.) Zahlbr.

siliceum Gyeln., Placynthium = Placynthium nigrum
(Huds.) Gray

silicicola H.Magn., Lempholemma = Lempholemma
isidiodes (Nyl. ex Arnold) H.Magn.

silicicola (Zschacke) Servít, Verrucaria = Verrucaria
funkii (Spreng.) Zahlbr.

siliquosa (Huds.) A.L.Sm., Ramalina

silvatica H.Magn., Pertusaria = Ochrolechia
microstictoides Räsänen

silvatica Motyka, Usnea = Usnea barbata (L.) Weber
ex F.H.Wigg.

similis (Motyka) Räsänen, Usnea = Usnea
subfloridana Stirt.

similis var. globigera Räsänen, Usnea = Usnea
glabrescens (Nyl. ex Vain.) Vain. ex Räsänen

simillimum (Anzi) Lettau, Rhizocarpon

simoënsis Räsänen, Aspicilia = Sagedia simoënsis
(Räsänen) A.Nordin et al.

simoënsis (Räsänen) Zahlbr, Lecanora = Sagedia
simoënsis (Räsänen) A.Nordin et al.

simoënsis var. isidiata H.Magn., Lecanora = Sagedia
simoënsis (Räsänen) A.Nordin et al.

simoënsis (Räsänen) A.Nordin et al., Sagedia

simplex (Davies) Branth & Rostr., Biatorella =
Acarospora privigna (Ach.) A.Scneid.

simplex D.Hawksw., Epicladonia

simplex (Davies) Vězda, Polysporina = Acarospora
privigna (Ach.) A.Scneid.

simplex (Davies) Nyl., Sarcogyne = Acarospora
privigna (Ach.) A.Scneid.

simplicior (Vain.) Lyng, Alectoria = Bryoria
simplicior (Vain.) Brodo & D.Hawksw.

simplicior (Vain.) Brodo & D.Hawksw., Bryoria

**sinapisperma (Lam. & DC.) Söchting et al.,
Bryoplaca**

sinapisperma (Lam. & DC.) Maheu & Gillet,
Caloplaca = Bryoplaca sinapisperma (Lam. & DC.)
Söchting et al.

sinensis Jatta, Ramalina

singularis (Kremp.) Arnold, Polyblastia

sinopica (Wahlenb.) Körb., Acarospora

sinopica (Wahlenb.) Vězda, Polysporinopsis =
Acarospora sinopica (Wahlenb.) Körb.

sinuatum (Huds.) A.Massal., Leptogium = Scytinium
gelatinosum (With.) Otálora et al.

sinuosa (Sm.) Hale, Hypotrachyna

sinuosa (Sm.) Ach., Parmelia = Hypotrachyna
sinuosa (Sm.) Hale

sipei Grumann, Lethariicola = Sphaeropezia sipei
(Grumann) Baloch & Wedin

sipei (Grumann) Diederich, Odontotrema =
Sphaeropezia sipei (Grumann) Baloch & Wedin

sipei (Grumann) Baloch & Wedin, Sphaeropezia

siphulae Zhurb., Sphaerellothecium

sirosiphoideum Nyl., Lichinodium

slesvicensis Erichsen, Pertusaria = Lepra amara
(Ach.) Hafellner

smaragdula (Wahlenb.) A.Massal., Acarospora = Myriospora smaragdula (Wahlenb. ex Ach.) Nägeli ex Uloth

smaragdula var. lesdainii (Harm. ex A.L.Sm.) H. Magn., Acarospora = Myriospora smaragdula (Wahlenb. ex Ach.) Nägeli ex Uloth

smaragdula var. scyphulifera (Vain.) Clauzade & Cl. Roux, Acarospora = Myriospora rhagadiza (Nyl.) K. Knudsen & L.Arcadia

smaragdula (Wahlenb. ex Ach.) Nägeli ex Uloth, Myriospora

smaragdula (Wahlenb.) Vězda, Polysporinopsis = Myriospora smaragdula (Wahlenb. ex Ach.) Nägeli ex Uloth

smaragdula (Wahlenb.) M.Westb. & Wedin, Silobia = Myriospora smaragdula (Wahlenb. ex Ach.) Nägeli ex Uloth

smithii Tul., Abrothallus = Abrothallus parmeliarum (Sommerf.) Arnold

smithii Du Rietz., Alectoria = Bryoria smithii (Du Rietz) Brodo & D.Hawksw.

smithii (Du Rietz) Brodo & D.Hawksw., Bryoria

sociale Körb., Lopadium = Schadonia fecunda (Th. Fr.) Vězda & Poelt

sociella Nyl., Lecidea = Sclerococcum urceolatum (Th.Fr.) Ertz & Diederich

soechtingii Zhurb., Sphaerellothecium

soleiformis Döbbeler, Epigloea

solorinaria (Nyl.) P.Karst., Scutula = Scutula tuberculosa (Th.Fr.) Rehm

solorinarium (Vain.) D.Hawksw., Stigmatidium

solorinicola (Vain.) Rehm, Scutula = Scutula tuberculosa (Th.Fr.) Rehm

somloënsis Gyeln., Parmelia = Xanthoparmelia stenophylla (Ach.) Ahti & D.Hawksw.

somloënsis (Gyeln.) Hale, Xanthoparmelia = Xanthoparmelia stenophylla (Ach.) Ahti & D. Hawksw.

sommerfeltiana Flörke ex Sommerf., Lecanora = Myriolecis albescens (Hoffm.) Śliwa et al.

sommerfeltii Sommerf., Endocarpon = Pertusaria sommerfeltii (Flörke ex Sommerf.) Fr.

sommerfeltii (Flörke ex Sommerf.) Fr., Pertusaria

sommerfeltii var. juniperina Vain., Pertusaria = Pertusaria sommerfeltii (Flörke ex Sommerf.) Fr.

sommerfeltii Lyngae, Polyblastia = Sporodictyon terrestre (Th.Fr.) Savić & Tibell

somphotera (Vain.) H.Olivier, Lecidea = Schaereria fuscocinerea (Nyl.) Clauzade & Cl.Roux

somphoterella Vain., Lecidea = Lambiella gyrizans (Nyl.) M.Westb. & Resl

sophodes var. lecideina Nyl., Lecanora = Rinodina metaboliza Vain.

sophodes var. lecideoides Nyl., Lecanora = Rinodina archaea (Ach.) Arnold

sophodes var. submilvina Nyl., Lecanora = Rinodina milvina (Wahlenb.) Th.Fr.

sophodes (Ach.) A.Massal., Rinodina

sophodes var. scopulina Nyl., Rinodina = Rinodina milvina (Wahlenb.) Th.Fr.

sophodioides H.Magn., Rinodina

sorialiata Vain., Lecidea = Lecanora expallens Ach.

soralifera Vondrák & Hrouzek, Caloplaca

soralifera (Suza) Räsänen, Lecanora

soralifera H.Magn., Lecanora = Lecanora caesiosora Poelt

soralifera Guz.-Krzemín. et al., Micarea

soralifera (Bitter) Lyngae, Parmelia = Pseudevernia furfuracea (L.) Zopf

soralifera (Bitter) Zopf, Pseudevernia = Pseudevernia furfuracea (L.) Zopf

soralifera Holien & Tønseberg, Xylographa

sorbinea Breuss, Verrucaria = Verrucaria breussii Diederich & van den Boom

sorbinum (Nyl. ex Hulting) Hulting, Thelidium = Normandina acroglypta (Norman) Aptroot

sordida Wedd., Acarospora = Sarcogyne lapponica (Ach. ex Schaer.) K.Knudsen & Kocourk.

sordida var. urbana H.Magn., *Acarospora* =
Acarospora subfuscescens (Nyl.) H.Magn.

sordida Reese Naesborg, Lecania

sordida (Pers.) Th.Fr., *Lecanora* = *Lecanora rupicola*
(L.) Zahlbr.

sordida var. bicincta (Ramond) Th.Fr., *Lecanora* =
Lecanora bicincta Ramond

sordida var. subcarnea (Lilj.) Th.Fr., *Lecanora* =
Lecanora subcarnea (Lilj.) Ach.

sordidescens (Nyl.) Vain., *Catillaria* = *Micarea*
prasina Fr.

sordidescens Nyl., *Lecidea* = *Micarea prasina* Fr.

sordidogrisea (Erichsen) E.Schreiner & Hafellner,
Ochrolechia = *Ochrolechia arborea* (Kreyer) Almb.

sordidogrisea Erichsen, *Pertusaria* = *Ochrolechia*
arborea (Kreyer) Almb.

sordidum Th.Fr., Thelidium

sorediana Nyl., *Pertusaria* = *Pertusaria flavida* (DC.)
J.R.Laundon

soredians (Nyl.) Hale, Flavoparmelia

sorediata (Vain.) Du Rietz, *Caloplaca* = *Rusavskia*
sorediata (Vain.) S.Y.Kondr. & Kärnefelt

sorediata (Räsänen ex Vain.) Räsänen, *Lecanora* =
Lecanora exspersa Nyl.

sorediata Lynge, *Lecidea* = *Lecanora orae-frigidae* R.
Sant.

sorediata (Ach.) Goward & Ahti, *Melanelia* =
Montanelia sorediata (Ach.) Divakar et al.

sorediata (Ach.) Divakar et al., Montanelia

sorediata (Ach.) Th.Fr., *Parmelia* = *Montanelia*
sorediata (Ach.) Divakar et al.

sorediata var. coralloidea Lynge, *Parmelia* =
Montanelia disjuncta (Erichsen) Divakar et al.

sorediata Sparrius et al., *Peterjamesia* =
Roccellographa sorediata (Sparrius et al.) Coppins &
Friday

**sorediata (Sparrius et al.) Coppins & Friday,
Roccellographa**

**sorediata (Vain.) S.Y.Kondr. & Kärnefelt,
Rusavskia**

sorediata (Vain.) Poelt, *Xanthoria* = *Rusavskia*
sorediata (Vain.) S.Y.Kondr. & Kärnefelt

soredicola Degel., *Rinodina* = *Rinodina*
olivaceobrunnea C.W.Dodge & G.E.Baker

sorediifera (Th.Fr.) Räsänen, *Lecanora* = *Lecanora*
umbrosa Degel.

sorediifera P.James, *Opegrapha* = *Zwackhia*
sorediifera (P.James) Ertz

sorediifera, *Usnea* = *Usnea lapponica* Vain.

sorediifera (Arnold) Lynge, *Usnea* = *Usnea glabrata*
(Ach.) Vain.

sorediifera (P.James) Ertz, Zwackhia

sorediosa (Almb.) Essl., *Melanelia* = *Montanelia*
sorediata (Ach.) Divakar et al.

sorediosa Almb., *Parmelia* = *Montanelia sorediata*
(Ach.) Divakar et al.

sorediosum sensu Øvstedal, *Rhizocarpon* =
Rhizocarpon ridescens (Nyl.) Zahlbr.

sorediosum sensu Creveld, *Rhizocarpon* = *Lecanora*
reagens Norman

sorediza Nyl., *Lecidea* = *Porpidia tuberculosa* (Sm.)
Hertel & Knoph

soredizodes (Lamy ex Nyl.) Hertel, *Huilia* = *Porpidia*
soredizodes (Lamy ex Nyl.) J.R.Laundon

soredizodes (Nyl.) Vain, *Lecidea* = *Porpidia rugosa*
(Körb.) Coppins & Fryday

**soredizodes (Lamy ex Nyl.) J.R.Laundon,
Porpidia**

sorocarpa (Vain.) Zahlbr., Caloplaca

sorophora (Vain.) P.James & Poelt, *Hypocnomyce*
= *Pycnora sorophora* (Vain.) Hafellner

sorophora (Vain.) Hafellner, Pycnora

soror Obermayer & Triebel, Cercidospora

sororia Th.Fr., *Buellia* = *Buellia aethalea* (Ach.) Th.
Fr.

sororians Nyl., *Lecidea* = *Micarea elachista* (Körb.)
Coppins & R.Sant.

sororioides Erichsen, *Buellia* = *Buellia aethalea*
(Ach.) Th.Fr.

sp. Lettau, Phragmonaevia = Cryptodiscus
cladoniicola (D.Hawksw. & R.Sant.) Pino-Bodas,
Zhurb. & S.Stenroos

spadicea Leight., Arthonia = Diarthonis spadicea
(Leight.) Frisch et al.

spadicea (Leight.) Frisch et al., Diarthonis

sparsa Kullh., Bacidia = Toniniopsis separabilis
(Nyl.) Gerasimova & A.Beck

sparsilis Nyl., Lecidea

sparsiuscula Nyl., Verrucaria

spathuliferum Vain., Stereocaulon

speciosa (Wulfen) A.Massal., Anaptychia =
Heterodermia speciosa (Wulfen) Trevis.

speciosa (Wulfen) Trevis., Heterodermia

speciosa Høeg, Pertusaria = Varicellaria
hemisphaerica (Flörke) I.Schmitt & Lumbsch

speirea (Ach.) Kremp., Huilia = Porpidia speirea
(Ach.) Kremp.

speirea (Ach.) Ach., Lecidea = Porpidia speirea
(Ach.) Kremp.

speirea var. subconfluens Th.Fr., Lecidea = Porpidia
grisea Gowan

speirea (Ach.) Kremp., Porpidia

sphacelata (Th.Fr.) M.Westb. & Resl, Lambiella

sphacelata (Th.Fr.) Hertel & Rambold, Rimularia =
Lambiella sphacelata (Th.Fr.) M.Westb. & Resl

sphaerale (Ach.) Keissl., Coniothecium =
Sclerococcum sphaerale (Ach.) Fr.

sphaerale (Ach.) Fr., Sclerococcum

sphaeralis Körb., Catillaria = Catillaria contristans
(Nyl.) Zahlbr.

sphaerella Hedl., Lecidea

sphaerocephala Nád., Chaenotheca

sphaerocephalum (L.) Ach., Calicium

sphaeroides (Wallr.) Arnold, Acrocordia =
Acrocordia gemmata (Ach.) A.Massal.

sphaeroides (Wallr.) Zahlbr., Arthopyrenia =
Acrocordia gemmata (Ach.) A.Massal.

sphaeroides auct., Bacidia = Mycobilimbia
carneoalbida (Müll.Arg.) S.Ekman & Printzen

sphaeroides (Dicks.) Körb., Biatora = Mycobilimbia
pilularis (Körb.) Hafellner & Türk

sphaeroides (Dicks.) Zahlbr., Biatora =
Mycobilimbia pilularis (Körb.) Hafellner & Türk

sphaeroides auct., Biatora = Mycobilimbia
carneoalbida (Müll.Arg.) S.Ekman & Printzen

sphaeroides A.Massal., Biatorina = Mycobilimbia
pilularis (Körb.) Hafellner & Türk

sphaeroides auct., Bilimbia = Mycobilimbia
carneoalbida (Müll.Arg.) S.Ekman & Printzen

sphaeroides f. minima Vain., Bilimbia = Biatora
pallens (Kullh.) Printzen

sphaeroides ("A.Massal.") Schuler, Catillaria =
Mycobilimbia pilularis (Körb.) Hafellner & Türk

sphaeroides var. leucococca Nyl., Lecidea = Micarea
peliocarpa (Anzi) Coppins & R.Sant.

sphaeroides D.D.Awasthi, Mycobilimbia =
Mycobilimbia carneoalbida (Müll.Arg.) S.Ekman &
Printzen

sphaeroides (Dicks.) V.Wirth, Mycobilimbia =
Mycobilimbia pilularis (Körb.) Hafellner & Türk

sphaeroidiza (Vain.) Printzen & Holien, Biatora

sphaeroidiza Vain., Lecidea = Biatora sphaeroidiza
(Vain.) Printzen & Holien

sphaerophoricola Isbrand & Alstrup, Opegrapha

sphaerospora (H.Magn.) G.Salisb., Ahlesia =
Thelocarpon sphaerosporum H.Magn.

sphaerospora J.Steiner, Sarcogyne = Sarcogyne
lapponica (Ach. ex Schaer.) K.Knudsen & Kocourk.

sphaerosporum Räsänen, Rhizocarpon =
Rhizocarpon macrosporum Räsänen

sphaerosporum H.Magn., Thelocarpon

sphagnicola Fryday et al., Carneothele

sphagnorum Vězda & Poelt, Absconditella

sphenospora (Nyl.) Vain., Campylacia =
Leptorhaphis atomaria (Ach.) Szatala

sphenospora Nyl., Verrucaria = Leptorhaphis
atomaria (Ach.) Szatala

sphinctotricha H.Magn., Lecidea = Porpidia
crustulata (Ach.) Hertel & Knoph

sphinctotricha Vain., Pyrenopsis = Pyrenopsis
haemalella (Nyl.) Blomb. & Forssell

sphinctrinella f. elevata Servit, Verrucaria

sphinctrinoidella (Nyl.) Arnold, Microglæna =
Protothelenella sphinctrinoidella (Nyl.) H.Mayrhofer
& Poelt

**sphinctrinoidella (Nyl.) H.Mayrhofer & Poelt,
Protothelenella**

sphinctrinoides (Zwackh) Berl. & Voglino,
Didymella = Zwackhiomyces sphinctrinoides
(Zwackh) Grube & Hafellner

sphinctrinoides (Nyl.) Lönnr., Microglæna =
Protothelenella sphinctrinoides (Nyl.) H.Mayrhofer
& Poelt

sphinctrinoides subsp. reducta Th.Fr., Microglæna =
Protothelenella sphinctrinoidella (Nyl.) H.Mayrhofer
& Poelt

**sphinctrinoides (Nyl.) H.Mayrhofer & Poelt,
Protothelenella**

sphinctrinoides (Nyl.) Vain., Thelenella =
Protothelenella sphinctrinoides (Nyl.) H.Mayrhofer
& Poelt

sphinctrinoides f. diffluens Vain., Verrucaria =
Protothelenella sphinctrinoides (Nyl.) H.Mayrhofer
& Poelt

**sphinctrinoides (Zwackh) Grube & Hafellner,
Zwackhiomyces**

sphyridii (Stein) Lettau, Leciographa =
Sclerococcum athallinum (Müll.Arg.) Ertz &
Diederich

spilobola (Nyl.) Arn., Arthopyrenia

spilomatica (Anzi) Th.Fr., Xylographa = Xylographa
vitiligo (Ach.) J.R.Laundon

spilota Fr., Lecidea = Lecidea tessellata Flörke

spinulosa Ahlner, Alectoria = Bryoria nadvornikiana
(Gyeln.) Brodo & D.Hawksw.

spinulosa Th.Fr., Ephebe = Ephebe hispidula (Ach.)
Horw.

spiralis Müll.Arg., Opegrapha = Spirographa
fusisporella (Nyl.) Zahlbr.

spissum Nyl. ex Hue, Stereocaulon = Stereocaulon
dactylophyllum Flörke

spissum var. laxum Frey, Stereocaulon =
Stereocaulon evolutum Graewe

spitsbergensis H.Magn., Caloplaca

spitsbergensis Lynge, Lecidea = Lecidella patavina
(A.Massal.) Knoph & Leuckert

spitsbergensis (Lynge) Hertel & Leuckert, Lecidella
= Lecidella patavina (A.Massal.) Knoph & Leuckert

splendidum Malme, Rhizocarpon = Rhizocarpon
superficiale (Schaer.) Vain. subsp. splendidum
(Malme) Runemark

spodochroa Ach., Gyrophora = Umbilicaria
spodochroa (Hoffm.) DC.

spodochroa (Ach.) Räsänen, Gyrophoropsis =
Umbilicaria spodochroa (Hoffm.) DC.

spodochroa (Hoffm.) DC., Umbilicaria

spodochrous (Hoffm.) Schol., Omphalodiscus =
Umbilicaria spodochroa (Hoffm.) DC.

spodomela (Nyl.) Zahlbr., Candelariella = Halecania
spodomela (Nyl.) M.Mayrhofer

spodomela (Nyl.) M.Mayrhofer, Halecania

spodomela (Nyl.) A.L.Sm., Lecania = Halecania
spodomela (Nyl.) M.Mayrhofer

spodophaea (Wahlenb.) Ach., Lecanora = Lecanora
poliophaea (Wahlenb.) Ach.

spongiosa (Ach.) Gyeln., Neosolorina = Solorina
spongiosa (Ach.) Anzi

spongiosa (Ach.) Anzi, Solorina

spongiosula Nyl., Lecidea = Lambiella furvella (Nyl.)
ex Mudd) M.Westb. & Resl

spongiosum (Sm.) Nyl., Leptogium = Scytinium
tenuissimum (Dicks.) Otálora et al.

sporastatae (Anzi) G. Winter, Didymosphaeria =
Polycoccum sporastatae (Anzi) Arnold

sporastatae (Anzi) Arnold, Polycoccum

sporastatae f. incongruae Arnold, Polycoccum =
Endococcus perpusillus Nyl.

sprucei Lönnr., Thelidium = Thelidium papulare (Fr.) Arnold

sprucei subsp. gymnobolum Norman, Thelidium = Thelidium papulare (Fr.) Arnold

spumosa (Flörke) Schade, Cladonia = Cladonia portentosa (Dufour) Coem.

spuria (Ach.) DC., Peltigera = Peltigera didactyla (With.) J.R.Laundon

squalescens (Nyl.) Th.Fr., Toninia

squalida (Ach.) A.Massal., Toninia

squamarioides (Mudd) Keissl., Discothecium = Polycoccum squamarioides (Mudd) Arnold

squamarioides (Mudd) Arnold, Polycoccum

squamarioides (Mudd) Zopf, Sorothelia = Polycoccum squamarioides (Mudd) Arnold

squamescens (Nyl.) Räsänen, Stereocaulon = Stereocaulon saxatile H.Magn.

squamosa Hoffm., Cladonia

squamosa var. allosquamosa Hennipman, Cladonia = Cladonia squamosa Hoffm.

squamuloisidiata van den Boom & V.J. Rico, Caloplaca

squamulosa sensu Th.Fr., Acarospora = Acarospora macrospora (Hepp) A.Massal. ex Bagl.

squamulosa (Schrad.) Trevis., Acarospora

squamulosa (Ach.) Harada, Dermatocarpella = Placidium squamulosum (Ach.) Breuss

squamulosum (Ach.) Breuss, Catapyrenium = Placidium squamulosum (Ach.) Breuss

squamulosum (Ach.) Breuss, Placidium

squamulosus Schrad., Lichen = Acarospora squamulosa (Schrad.) Trevis.

squarrosa (Wallr.) Flot., Cladonia = Cladonia arbuscula (Wallr.) Flot.

squarrosa (Ach.) Th.Fr., Toninia = Toninia squalida (Ach.) A.Massal.

stanislai Guzow-Krzeminska et al., Lecanora

steineri (Kuan) Vězda, Bagliettoa

steineri Kuan, Verrucaria = Bagliettoa steineri (Kuan) Vězda

steinii Körb. ex Stein, Leptorhaphis = Sagediopsis barbara (Th.Fr.) R.Sant. & Triebel

stellaris Kremp., Arthonia

stellaris (Opiz) Brodo, Cladina = Cladonia stellaris (Opiz) Pouzar & Vězda

stellaris (Opiz) Pouzar & Vězda, Cladonia

stellaris (L.) Nyl., Physcia

stellaris var. angustiloba Räsänen, Physcia = Physcia stellaris (L.) Nyl.

stellaris subsp. caesitia Nyl., Physcia = Physcia dubia (Hoffm.) Lettau

stellaris var. marina E.Nyl., Physcia = Physcia tenella (Scop.) DC.

stellaris var. subincisa Th.Fr., Physcia = Physcia magnussonii Frey

stellaris var. subobscura Nyl., Physcia = Physcia tenella (Scop.) DC.

stellulata (Taylor) Mudd, Buellia

stemonea (Ach.) Müll.Arg., Chaenotheca

stemonea f. ramosa M.Laurila, Chaenotheca = Chaenotheca trichialis (Ach.) Th.Fr.

stenhammari (Fr. ex Stenh.) Poelt & Follmann, Dirina = Dirina massiliensis Durieu & Mont.

stenhammari (Fr. ex Stenh.) Arnold., Lecanactis = Dirina massiliensis Durieu & Mont.

stenhammari Fr. ex Stenh., Lecidea = Dirina massiliensis Durieu & Mont.

stenhammarii Hellb., Pertusaria

stenhammarii Hellb., Thelidium = Verrucaria obscura Th.Fr.

stenhammarii (Servít) Servít, Verrucaria

stenholmii (H.Magn.), Aspicilia = Aspicilia indissimilis (H.Magn.) Räsänen

stenholmii H.Magn., Lecanora = Aspicilia indissimilis (H.Magn.) Räsänen

stenholmii H.Magn., Lecidea = Micarea vulpinaris (Nyl.) Muhr

stenholmii M.Choisy, Lithoicia = Verrucaria obscura Th.Fr.

stenoclada W.L.Culb., Ramalina = Ramalina cuspidata (Ach.) Nyl.

stenomicra Norman, Arthopyrenia

stenomicra (Norman) H.Magn., Leptorhaphis = Arthopyrenia stenomicra Norman

stenophylla (Ach.) Heugel, Parmelia = Xanthoparmelia stenophylla (Ach.) Ahti & D. Hawksw.

stenophylla f. corticola Koskinen, Parmelia = Xanthoparmelia conspersa (Ach.) Hale

stenophylla (Ach.) Ahti & D.Hawksw., Xanthoparmelia

stenophyllum (Tuck.) Fink, Placynthium

stenospora Körb., Arthopyrenia

stenospora (Hepp) Arnold, Bacidia = Biatora beckhausii (Körb.) Tuck.

stenospora (Harm.) D.Hawksw., Epicladonia

stenospora (Hepp.) Nyl., Lecidea = Biatora beckhausii (Körb.) Tuck.

stenospora (Körb.) H.Magn., Leptorhaphis = Arthopyrenia stenospora Körb.

stenotera (Nyl.) Nyl., Lecidea

stenotropa Nyl., Lecanora

stereocaulicola (Linds.) O.E.Erikss. & R.Sant., Lasiosphaeriopsis

stereocaulicola Alstrup & D.Hawksw., Opegrapha

stereocaulicola Linds., Sphaeria = Lasiosphaeriopsis
stereocaulicola (Linds.) O.E.Erikss. & R.Sant.

stereocaulina (Ohlert) R.Sant., Arthonia

stereocaulorum Th.Fr., Biatora = Catillaria
stereocaulorum (Th.Fr) H.Olivier.

stereocaulorum (Th.Fr) H.Olivier., Catillaria

stereocaulorum (Arnold) Hafellner, Cercidospora

stereocaulorum Alstrup & D.Hawksw., Geltingia = Rhymbocarpus stereocaulorum (Alstrup & D. Hawksw.) Etayo & Diederich

stereocaulorum Arnold, Leptosphaeria = Cercidospora stereocaulorum (Arnold) Hafellner

stereocaulorum (Alstrup & D.Hawksw.) Hafellner, Llimoniella = Rhymbocarpus stereocaulorum (Alstrup & D.Hawksw.) Etayo & Diederich

stereocaulorum (Arnold) Sacc., Metasphaeria = Cercidospora stereocaulorum (Arnold) Hafellner

stereocaulorum (Alstrup & D.Hawksw.) Etayo & Diederich, Rhymbocarpus

stereocaulorum (Anzi) Körb., Scutula = Catillaria
stereocaulorum (Th.Fr) H.Olivier.

stereocaulorum Arnold, Sphaerulina = Cercidospora
stereocaulorum (Arnold) Hafellner

sterilis Coppins & P.James, Mycoblastus = Violella fucata (Stirt.) T.Sprib.

steriza (Ach.) Vain., Lecidea = Porpidia macrocarpa (DC.) Hertel & A.J.Schwab

steropea (Ach.) Poetsch., Caloplaca = Caloplaca saxicola (Hoffm.) Nordin

stichococci Vain., Strongylopsis = Microcalicium disseminatum (Ach.) Vain.

stictarum (Tul.) Jatta, Arthonia = Plectocarpon lichenum (Sommerf.) D.Hawksw.

stictarum Tul., Celidium = Plectocarpon lichenum (Sommerf.) D.Hawksw.

stictarum var. nephromea Norman, Celidium = Plectocarpon nephromeum (Norman) R.Sant.

stictica Ach., Limboria = Arthonia minutissima (Ach.) Nyl.

stictica (Duby) Nyl., Parmelia = Punctelia stictica (Duby) Krog

stictica (Duby) Krog, Punctelia

stictica Fr., Pyrenotheca = Arthonia cinereopruinosa Schaer.

stictica Sheard & Tønsberg, Rinodina

stictica var. minutissima Ach., Verrucaria = Arthonia minutissima (Ach.) Nyl.

stigma var. caeruleascens Zopf, Discothecium = Endococcus perpusillus Nyl.

stigma f. pseudocarpum (Nyl.) Keissl., Discothecium = Endococcus pseudocarpum Nyl.

stigma (Körb.) Stizenb., Endococcus

stigma auct., Endococcus = Endococcus macrosporus (Hepp ex Arnold) Nyl.

stigma auct., Endococcus = Endococcus perpusillus Nyl.

stigmata Körb., Buellia = Amandinea punctata (Hoffm.) Coppins & Scheid.

stigmata Ach., Lecidea = Lecidella stigmata (Ach.) Hertel & Leuckert

stigmata (Ach.) Hertel & Leuckert, Lecidella

stigmatella (Ach.) A.Massal., Arthopyrenia = Strigula stigmatella (Ach.) R.C.Harris

stigmatella (Ach.) R.C.Harris, Strigula

stigonellum Ach., Calicium = Sphinctrina turbinata (Pers.:Fr.) De Not.

stigonemoides (Orange) Kalb & Hafellner, Leucocarpia = Psoroglaena stigonemoides (Orange) A.Henssen

stigonemoides Orange, Macentina = Psoroglaena stigonemoides (Orange) A.Henssen

stigonemoides (Orange) A.Henssen, Psoroglaena

stillicidiorum (Vahl) Lynge, Caloplaca

stipatula Nyl., Lichinella

stipitata Coppins & P.James, Micarea

stipitata Nyl., Umbilicaria = Umbilicaria virginis Schaer.

straminea Stenh., Biatora = Lecanora sublivescens (Nyl.) Arnold

straminea (Sommerf.) Flörke, Cladonia

straminea Ach., Lecanora = Myriolecis straminea (Ach.) Śliwa et al.

straminea (Ach.) Śliwa et al., Myriolecis

strasseri Zahlbr., Lecidea

strasseri Zahlbr., Thelocarpon = Thelocarpon lichenicola (Fuckel) Poelt & Hafellner.

strepsilis (Ach.) Grognot, Cladonia

strepsilis (Ach.) Zahlbr., Ramalina = Ramalina capitata (Ach.) Nyl.

striatula (Wahlenb.) Gueidan & Thüs, Wahlenbergiella

striatula Wahlenb., Verrucaria = Wahlenbergiella striatula (Wahlenb.) Gueidan & Thüs

stricta (Nyl.) Nyl., Cladonia

stricta auct. plur., Cladonia = Cladonia trassii Ahti

stricta var. uliginosa Ahti, Cladonia = Cladonia uliginosa (Ahti) Ahti

strobilina (Spreng.) Kieff., Lecanora

stromatoides H.Magn., Catillaria = Lecidea plana (J. Lahm) Nyl.

strumaticus Nyl. ex Cromb., Pilophorus

stuppea (Flot.) Sandst., Cetraria = Cetraria muricata (Ach.) Eckfeldt

stygia (Fr.) Ahti, Cladonia = Cladonia stygia (Fr.) Ruoss

stygia (Fr.) Ruoss, Cladonia

stygia (L.) Essl., Melanelia

stygia (L.) Ach., Parmelia = Melanelia stygia (L.) Essl.

stygioplaca (Nyl.) Hue, Aspicilia = Aspicilia subradians (Nyl.) Hue

stygioplaca Nyl., Lecanora = Aspicilia subradians (Nyl.) Hue

stygospila Minks, Cyrtidula = Stigmatidium stygospilum (Minks) R.Sant.

stygospilum (Minks) R.Sant., Stigmatidium

suaveolens (Fr.) Th.Fr. ex Stein, Ionaspis

suaveolens (Ach. ex Schaer.) Stein, Ionaspis = Ionaspis odora (Ach.) Stein

suavis (Müll.Arg.) Mig., Lecania

subacerina Vain., Bacidia = Bacidia laurocerasi (Delise ex Duby) Zahlbr.

subachariana Gyeln., Alectoria = Bryoria implexa (Hoffm.) Brodo & D.Hawksw.

subadunans (Vain.) Räsänen, Aspicilia = Aspilidea myrinii (Fr.) Hafellner

subalbicans (I.M.Lamb) Lendemer & Hodkinson, Lepraria

subalbicans (I.M.Lamb) I.M.Lamb & A.M.Ward,
Leprocaulon = Lepraria subalbicans (I.M.Lamb)
Lendemer & Hodkinson

subalbinea Nyl., Physcia

suballinita (Nyl.) Zahlbr., Bacidia = Micarea ternaria
(Nyl.) Vězda

suballinita sensu Magnusson, Bacidia = Bilimbia
lobulata (Sommerf.) Hafellner & Coppins

suballinita sensu Magnusson, Bacidia = Bilimbia
microcarpa (Th.Fr.) Th.Fr.

suballinita sensu Magnusson, Bacidia = Toniniopsis
illudens (Nyl.) Kistenich et al.

subalpina Th.Fr., Catillaria = Placynthium
asperellum (Ach.) Trevis.

subapplanata H.Magn., Lecidea

subarctica (H.Magn.) Creveld, Aspicilia = Sagedia
zonata Ach.

subarctica H.Magn., Lecanora = Sagedia zonata Ach.

subarctoa Th.Fr., Bacidia = Toniniopsis separabilis
(Nyl.) Gerasimova & A.Beck

subarenaria Nowak & Kiszka, Melaspilea = Arthonia
granitophila Th.Fr.

subareolata Nyl., Pyrenopsis

subargentifera (Nyl.) Essl., Melanelia = Melanelixia
subargentifera (Nyl.) O.Blanco et al.

subargentifera (Nyl.) O.Blanco et al., Melanelixia

subargentifera Nyl., Parmelia = Melanelixia
subargentifera (Nyl.) O.Blanco et al.

subaromatica Vain., Lecidea = Toninia subaromatica
(Vain.) H.Olivier

subaromatica (Vain.) H.Olivier, Toninia

subathallina Arup & Vondrák, Blastenia

subathallina H.Magn., Caloplaca = Blastenia
subathallina Arup & Vondrák

subathallina H.Magn., Ochrolechia

subatroidea subsp. orbillifera Almq., Arthonia =
Arthonia orbillifera (Almq.) Sundin

subaurea Zahlbr., Lecanora

subauriculata Lyngae, Lecidea = Adelolecia pilati
(Hepp) Hertel & Hafellner

subaurifera Muhr & Tønsberg, Japewia

subaurifera Muhr & Tønsberg, Lecidea = Japewia
subaurifera Muhr & Tønsberg

subaurifera (Nyl.) Essl., Melanelia = Melanelixia
subaurifera (Nyl.) O.Blanco et al.

subaurifera (Nyl.) O.Blanco et al., Melanelixia

subaurifera Nyl., Parmelia = Melanelixia subaurifera
(Nyl.) O.Blanco et al.

subcana (Stizenb.) Gyeln., Alectoria = Bryoria
fuscescens (Gyeln.) Brodo & D.Hawksw.

subcana (Nyl. ex Stizenb.) Brodo & D.Hawksw.,
Bryoria = Bryoria fuscescens (Gyeln.) Brodo & D.
Hawksw.

subcandida H.Magn., Lecidea

subcariosa auct., Cladonia = Cladonia polycarpoides
Nyl.

subcarnea (Lilj.) Ach., Lecanora

**subcarnea (Lilj.) Ach. var. soralifera H.Magn.,
Lecanora**

subcarnea (Lilj.) Ach. var. subcarnea, Lecanora

subcarnea (Sm.) Ach., Lecidea = Lecanora subcarnea
(Lilj.) Ach.

subcataractarum Servít, Involucrothele = Thelidium
subcataractarum (Servít)

subcataractarum (Servít), Thelidium

subcerasi (Vain.) Zahlbr., Arthopyrenia

subcerasi (Vain.) Vain., Metasphaeria =
Arthopyrenia subcerasi (Vain.) Zahlbr.

subcerasi Vain., Verrucaria = Arthopyrenia subcerasi
(Vain.) Zahlbr.

subcervicornis (Vain.) Kernst., Cladonia

subcinerascens (Vain.) Zahlbr., Lecanora =
Protoparmelia badia (Hoffm.) Hafellner

subcinerascens Nyl., Lecidea

subcinnabarina Tønsberg, Lecidea = Ramboldia
subcinnabarina (Tønsberg) Kalb et al.

subcinnabarina (Tønsberg) Hafellner, Pyrrhospora =
Ramboldia subcinnabarina (Tønsberg) Kalb et al.

**subcinnabarina (Tønsberg) Kalb et al.,
Ramboldia**

subcircinata (Nyl.) Coppins, Aspicilia = Lobothallia
radiosa (Hoffm.) Hafellner

subcircinata Nyl., Lecanora = Lobothallia radiosa
(Hoffm.) Hafellner

subcircumspecta Coppins, Bacidia = Bibbya
subcircumspecta (Coppins) S.Ekman

subcircumspecta (Coppins) S.Ekman, Bibbya

subclausa Anzi, Gyalecta

subconcinna (Vain.) Zahlbr., Buellia = Tetramelas
concinna (Th.Fr.) Giralt

subconfluens sensu Th.Fr. non Anzi, Lecidea =
Porpidia grisea Gowan

subconfluens Zahlbr., Lecidea = Porpidia grisea
Gowan

subconfusa (Nyl.) Alstrup, Micarea

subconglomeratum Räsänen, Rhizocarpon =
Rhizocarpon geographicum (L.) DC. subsp.
geographicum

subcongrua Vain., Lecidea = Lecidella subcongrua
R.Sant.

subcongrua R.Sant., Lecidella

subconsequens Nyl.) Hulting, Thelidium =
Anisomeridium carinthiacum (J.Steiner) R.C.Harris

subconsequens Nyl., Verrucaria = Anisomeridium
carinthiacum (J.Steiner) R.C.Harris

subcorallinum Degel., Collema = Enchylum tenax
(Sw.) Gray

subcoralloides (Nyl.) Nyl., Stereocaulon

subdeflexa (Nyl.) Lettau, Candeleriella

subdenudatum Hav., Stereocaulon

subdepressa (Nyl.) Arnold, Aspicilia

subdetersa Nyl., Physcia = Physconia enteroxantha
(Nyl.) Poelt

subdevergens Pykälä & Myllys, Verrucaria

subdisciformis (Leight.) Vain., Buellia =

Buellia erubescens Arnold

subdiscordans (Nyl.) P.James, Byssoloma

subdiscrepans (Nyl.) Lettau, Polyblastia = Halospora
discrepans (J.Lahm ex Arnold) Hafellner

subdiscrepans (Nyl.) R.Sant., Rhizoplaca

subdiscrepans Nyl., Verrucaria = Halospora
discrepans (J.Lahm ex Arnold) Hafellner

subdispersa Mig., Buellia = Diplotomma lutosum A.
Massal.

subdita Nyl., Lecidea = Lecanora formosa (Bagl. &
Carestia) Knoph & Leuckert

subduplex (Nyl.) Räsänen ex Printzen, Biatora

subduplex Nyl., Lecidea = Biatora subduplex (Nyl.)
Räsänen ex Printzen

subexigua (Nyl.) H.Olivier, Rinodina = Rinodina
gennarii Bagl.

subfallax (Vain.) Vain, Didymella = Arthopyrenia
didymelloides Zahlbr.

subfarinacea (Nyl. ex Cromb.) Nyl., Ramalina

subflaccidum Degel., Collema

subflexuosa Nyl., Lecidea = Lambiella sphacelata
(Th.Fr.) M.Westb. & Resl

subfloridana Stirt., Usnea

subfossans Vain., Verrucaria

subfuliginea Nyl., Pyrenopsis = Pyrenopsis
grumulifera Nyl.

subfuliginea Vain., Verrucaria

subfurcata (Nyl.) Arnold, Cladonia

subfurvum, Collema = Collema subflaccidum Degel.

subfusca (L.) Ach., Lecanora = Lecanora allophana
Nyl.

subfusca auct., Lecanora = Lecanora argentata (Ach.)
Malme

subfusca var. allophana Ach., Lecanora = Lecanora
allophana Nyl.

subfusca var. biatorea Nyl., Lecanora = Lecanora
hypopta (Ach.) Vain.

subfusca var. campestris (Schaer.) Rabenh.,
Lecanora = Lecanora campestris (Schaer.) Hue

subfusca var. hypnorum (Wulfen) Schaer., Lecanora
= Lecanora epibryon (Ach.) Ach.

subfusca var. mesophana Nyl., Lecanora = Lecanora
allophana Nyl.

subfusca [unranked] paupera Th.Fr., Lecanora =
Lecanora paupera (Th.Fr.) Zahlbr.

subfusca var. zosteriae Ach., Lecanora = Myriolecis
zosteriae (Ach.) Śliwa et al.

subfusca (var.) zosteriae Ach., Lecanora = Myriolecis
zosteriae (Ach.) Śliwa et al. var. zosteriae

subfusca H.Magn., Rinodina = Rinodina
septentrionalis Malme

subfuscae (Arnold) Clauzade & Cl.Roux, Bacidia =
Toninia subfuscae (Arnold) Timdal

subfuscae (Arnold) Arnold, Bilimbia = Toninia
subfuscae (Arnold) Timdal

subfuscae (Arnold) Rehm, Mycobilimbia = Toninia
subfuscae (Arnold) Timdal

subfuscae (Arnold) Timdal, Toninia

subfuscata H.Magn., Lecanora = Lecanora argentata
(Ach.) Malme

subfuscata H.Magn., Verrucaria

subfuscescens (Nyl.) H.Magn., Acarospora

subfuscescens Nyl., Lecanora = Acarospora
subfuscescens (Nyl.) H.Magn.

subfuscescens Vain., Lecidea

subfuscescens (Nyl.) K.Knudsen & Kocourk.,
Polysporina = Acarospora subfuscescens (Nyl.) H.
Magn.

subfusculicola (Linds.) Triebel, Arthonia

subfuscula (Nyl.) Th.Fr., Bacidia = Lecania
subfuscula (Nyl.) S.Ekman

subfuscula (Nyl.) S.Ekman, Lecania

subfuscula Nyl., Lecidea = Lecania subfuscula (Nyl.)
S.Ekman

subgeminatum Eitner, Rhizocarpon

subglabra (Nyl.) M.Choisy, Agyrophora =
Umbilicaria subglabra (Nyl.) Harm.

subglabra (Nyl.) Harm., Umbilicaria

subglobosa (Vězda) Vězda & Poelt, Acrocordia

subglobosa Vězda, Arthopyrenia = Acrocordia
subglobosa (Vězda) Vězda & Poelt

subglobosa H.Magn., Lecidea = Lecidea
septentrionalis Th.Fr.

subglobulificans H.Magn., Verrucaria

subglobulosa Nyl., Lecidea = Biatora ocelliformis
(Nyl.) Arnold

subglomerulosa H.Magn., Lecanora

subhumida Vain., Lecidea

subincompta (Nyl.) Arnold, Bacidia = Bellicidia
incompta (Borrer) Kistenich et al.

subincompta auct. p.p., Bacidia = Toniniopsis
separabilis (Nyl.) Gerasimova & A.Beck

subincompta (Nyl.) Kistenich et al., Toniniopsis =
Bellicidia incompta (Borrer) Kistenich et al.

subincongrua Nyl., Lecidea = Lecidella asema (Nyl.)
Knoph & Hertel

subincongrua sensu H.Magn., Lecidea = Lecidella
meiococca (Nyl.) Leuckert & Hertel

subincongrua (Nyl.) Hertel & Leuckert, Lecidella =
Lecidella asema (Nyl.) Knoph & Hertel

subincongrua sensu H.Magn., Lecidella = Lecidella
meiococca (Nyl.) Leuckert & Hertel

subinfidula Nyl., Lecidea = Brianaria tuberculata
(Sommerf.) S.Ekman & M.Svensson

subinsequens Nyl., Lecidea

subintricans Nyl., Stereocaulon

subintricata (Nyl.) Th.Fr., Lecanora

subinundata (Nyl.) Blomb. & Forssell, Bacidia =
Bacidina inundata (Fr.) Vězda

subjunctiva Nyl., Verrucaria

sublapponica (Zahlbr.) Oxner, Aspicilia

sublapponica Zahlbr., Lecanora = Aspicilia
sublapponica (Zahlbr.) Oxner

sublapponica Pykälä & Myllys, Verrucaria

sublavatum Fryday, Rhizocarpon

sublaxa Vain. ex Motyka, Usnea = Usnea dasopoga (Ach.) Nyl.

subleprosula (Vězda) Vězda, Micarea = Micarea submilliaria (Nyl.) Coppins

sublimosa Nyl., Lecidea = Megalaria jemtlandica (Th.Fr. & Almq.) Fryday

sublitorale (Leight.) Grube & B.D.Ryan, Collemopsidium

sublitorale (Leight.) R.C. Harris ex A.Fletcher, Pyrenocollema = Collemopsidium sublitorale (Leight.) Grube & B.D.Ryan

sublitoralis (Leight.) Arnold, Arthopyrenia = Collemopsidium sublitorale (Leight.) Grube & B.D. Ryan

sublivescens (Nyl.) Arnold, Lecanora

sublivescens (Nyl.) P.James, Lecidea = Lecanora sublivescens (Nyl.) Arnold

sublucidum Räsänen, Rhizocarpon = Rhizocarpon saanaense Räsänen

sublutescens Nyl., Lecidea = Farnoldia dissipabilis (Nyl.) Hertel

sublutescens Malme non Zahlbr., Pertusaria = Lecanora impudens Degel.

submersa Schaerer, Verrucaria = Verrucaria hydrela Ach.

submersella Servit, Verrucaria = Verrucaria hydrela Ach.

submethorium (Vain.) Zahlbr., Thelidium

submicans auct., Arthopyrenia = Naetrocymbe punctiformis (Pers.) R.C.Harris

submilliaria (Nyl.) Zahlbr., Bacidia = Micarea submilliaria (Nyl.) Coppins

submilliaria Nyl., Lecidea = Micarea submilliaria (Nyl.) Coppins

submilliaria (Nyl.) Coppins, Micarea

submilvina Vain., Lecidea

submodesta Vain., Lecidea = Rhizocarpon submodestum (Vain.) Vain.

submodestum (Vain.) Vain., Rhizocarpon

submoestula Nyl., Lecidea = Micarea subconfusa (Nyl.) Alstrup

submoestula (Nyl.) Coppins, Micarea = Micarea subconfusa (Nyl.) Alstrup

submontana Nád. ex Hale, Parmelia

submuralis Nyl., Verrucaria

submuriformis H.Magn., Phlyctis = Thelenella pertusariella (Nyl.) Vain.

subnigrata (Nyl.) Herre, Catillaria = Micarea

subnigrata (Nyl.) Coppins & H.Kilias

subnigrata Nyl., Lecidea = Micarea subnigrata (Nyl.) Coppins & H.Kilias

subnigrata (Nyl.) Coppins & H.Kilias, Micarea

subnigrescens Degel., Collema

subnitida Hellb., Catillaria = Kiliasia tristis (Müll. Arg.) Hafellner

subnitida (Hellb.) Hafellner & Türk, Toninia = Kiliasia tristis (Müll.Arg.) Hafellner

subobscura (H.Magn.), Aspicilia = Aspicilia laevata (Ach.) Arnold

subobscura (Vain.) Poelt, Hypogymnia

subobscura H.Magn., Lecanora = Aspicilia laevata (Ach.) Arnold

subobscura H.Magn., Lecidea = Miriquidica instrata (Nyl.) Hertel & Rambold

subobscura Vain., Parmelia = Hypogymnia subobscura (Vain.) Poelt

subobscura (Nyl.) Nyl., Physcia = Physcia tenella (Scop.) DC.

subobscura H.Magn., Rinodina = Rinodina archaea (Ach.) Arnold

subocellata Th.Fr., Polyblastia

subolivacea (Th.Fr.) Lyngé, Caloplaca = Parvoplaca tirolensis (Zahlbr.) Arup et al.

subolivaceum (Th.Fr.) Räsänen, Callopisma = Parvoplaca tirolensis (Zahlbr.) Arup et al.

subpallida H.Magn., Caloplaca = Rufoplaca subpallida (H.Magn.) Arup et al.

subpallida (H.Magn.) Arup et al., Rufoplaca

subpapulare Zschacke, Thelidium

subparallela Müll.Arg., Opegrapha

subparieta (Nyl.) Zahlbr., Rinodina

subparoica (Nyl.) Tibell, Chaenothecopsis

subpedicellatum (Ach.) Schaer., Calicium =
Microcalicium disseminatum (Ach.) Vain.

subpedicellatum (Ach.) Tibell, Microcalicium =
Microcalicium disseminatum (Ach.) Vain.

subplanata Nyl., Lecanora = Lecanora rupicola (L.)
Zahlbr. subsp. subplanata (Nyl.) Leuckert & Poelt

subplanata Nyl., Lecidea = Lecidea lapicida (Ach.)
Ach. var. lapicida

subplumbea Anzi, Lecidea = Miriquidica
subplumbea (Anzi) Cl.Roux

subplumbea (Anzi) Cl.Roux, Miriquidica

subpostumum (Nyl.) Arnold, Rhizocarpon

subprasinelum Nyl. ex Hulting, Thelocarpon =
Thelocarpon epibolum Nyl.

subpruinatum var. serpentinicola Servít,
Dermatocarpon = Verrucaria serpentinicola (Servít)
Servít

subpusilla (Vain.) Tibell, Chaenothecopsis =
Chaenothecopsis pusilla (Ach.) A.F.W.Schmidt

subpusillum Vain., Calicium = Chaenothecopsis
pusilla (Ach.) A.F.W.Schmidt

subquercinum Asahina, Calicium = Calicium
lenticulare Ach.

subradians (Nyl.) Hue, Aspicilia

subradians Nyl., Lecanora = Aspicilia subradians
(Nyl.) Hue

subradiasacens Nyl., Lecanora = Aspicilia subradians
(Nyl.) Hue

subradiascens (Nyl.) Hue, Aspicilia = Aspicilia
subradians (Nyl.) Hue

subradiatum (Nyl.) Arnold, Placynthium

subradiosa auct. non Nyl., Lecanora = Lecanora
swartzii (Ach.) Ach.

subradiosa Nyl., Lecanora = Lecanora rupicola (L.)
Zahlbr. subsp. subplanata (Nyl.) Leuckert & Poelt

subradiosa var. nylanderi Räsänen, Lecanora =
Lecanora swartzii (Ach.) Ach. subsp. nylanderi
(Räsänen) Leuckert & Poelt

subramulosa, Xanthomendoza = Xanthomendoza
fulva (Hoffm.) Søchting et al.

subrangiformis Sandst., Cladonia

subreagens (H.Magn.) R.Sant., Aspicilia = Sagedia
mastrucata (Wahlenb.) A.Nordin et al.

subreagens H.Magn., Lecanora = Sagedia mastrucata
(Wahlenb.) A.Nordin et al.

subreagens H.Magn., Lecidea

subreductum (Vain.) Vain., Rhizocarpon =
Rhizocarpon submodestum (Vain.) Vain.

subrhagadiella Lynge, Lecidea

subrimulosa (Nyl.) Zahlbr., Toninia = Kiliasia
nordlandica (Th.Fr.) Kistenich et al.

subrivulosa Vain., Lecidea = Fuscidea cyathoides
(Ach.) V.Wirth & Vězda

subrosida (Eitner) Zahlbr., Chaenotheca

subrudecta Nyl., Parmelia = Punctelia subrudecta
(Nyl.) Krog

subrudecta (Nyl.) Krog, Punctelia

subrugosa Nyl., Lecanora = Lecanora argentata
(Ach.) Malme

subsaligna M.Brand & van den Boom, Lecanora

subscabrata (Vain.) Motyka, Usnea = Usnea
dasopoga (Ach.) Nyl.

subscruposus (Nyl.) Zahlbr., Diploschistes =
Diploschistes muscorum (Scop.) R.Sant.

subscutellaris (Vězda) Vězda, Gyalidea

subsequens Nyl., Lecidea = Lecidella stigmatea
(Ach.) Hertel & Leuckert

subsiderella (Nyl.) Arnold, Opegrapha = Opegrapha
niveoatra (Borrer) J.R.Laundon

subsiduum (Nyl.) Zahlbr., Thelidium

subsimile Nyl., Spilonema = Spilonema revertens
Nyl.

subsimilis Th.Fr., Caloplaca = Candelariella aurella (Hoffm.) Zahlbr.

subsimilis (H.Magn.) R.Sant., Menegazzia

subsordescens (Nyl.) Vain., Tichothecium = Muellerella erratica (Müll.Arg.) Hafellner & V.John

subsolediza (Lynge) R.Sant., Aspicilia = Bellemerea subsolediza (Lynge) R.Sant.

subsolediza (Lynge) R.Sant., Bellemerea

subsolediza Lynge, Lecidea = Bellemerea subsolediza (Lynge) R.Sant.

subphaeroides (Nyl.) Galløe, Bilimbia = Megalaria laureri (Hepp ex Th.Fr.) Hafellner

subphaeroides Nyl., Lecidea = Megalaria laureri (Hepp ex Th.Fr.) Hafellner

subphaeroides (Tav.) Vězda, Ramonia

subsquamosa (Leight.) Cromb., Cladonia = Cladonia squamosa Hoffm.

substellaris (Ach.) Vain., Xanthoria = Xanthomendoza fallax (Hepp) Søchting et al.

substerilis Motyka, Usnea

substriatula H.Magn., Lecidea = Bryobilimbia hypnorum (Lib.) Fryday et al.

substygia (Räsänen) Essl., Melanelia = Montanelia tominii (Oxner) Divakar et al.

substygia Räsänen, Parmelia = Montanelia tominii (Oxner) Divakar et al.

subtartarea (Nyl.) A.Massal., Ochrolechia = Ochrolechia androgyna (Hoffm.) Arnold

subtenebrosa Malme, Buellia = Orphniospora moriopsis (A.Massal.) D.Hawksw.

subtenerum Coppins & Friday, Cliostomum

subtile Pers., Calicium = Mycocalicium subtile (Pers.) Szatala

subtile (Schrad.) Torss., Leptogium = Scytinium subtile (Schrad.) Otálora et al.

subtile (Pers.) Szatala, Mycocalicium

subtile Runemark, Rhizocarpon = Rhizocarpon viridiatrum (Wulfen) Körb.

subtile (Schrad.) Otálora et al., Scytinium

subtile auct., Thelotrema = Crutarndina petractoides (P.M.Jørg. & Brodo) Parmen et al.

subtilis Vězda, Bacidia = Fellhanera subtilis (Vězda) Diederich & Sérus.

subtilis (Vězda) Diederich & Sérus., Fellhanera

subtilis Müll.Arg., Verrucaria

subtiroliensis Søchting ad int., Austroplaca = Austroplaca sibirica (H.Magn.) Søchting & Arup

subtomentellum (Nyl.) Gyeln., Nephromium = Nephroma bellum (Spreng.) Tuck.

subulata (L.) Weber ex F.H.Wigg., Cladonia

subuliformis (Ehrh.) Culb., Thamnolia = Thamnolia vermicularis (Sw.) Schaer. subsp. vermicularis

subuliginosa Nyl., Lecidea = Placynthiella oligotropha (J.R.Laundon) Coppins & P.James

subumbrina Nyl., Verrucaria = Sporodictyon cruentum (Körb.) Körb.

subvarians Nyl., Arthonia = Arthonia clemens (Tul.) Th.Fr.

subvermicularis Asahina, Thamnolia = Thamnolia vermicularis (Sw.) Schaer. subsp. vermicularis

subviolascens H.Magn., Lecidea = Micarea paratropa (Nyl.) Alstrup

subviolascens (H.Magn.) Coppins, Micarea = Micarea paratropa (Nyl.) Alstrup

subviridescens (Nyl. ex Th.Fr.) Vain., Buellia = Tetramelas concinnus (Th.Fr.) Giralt

subviridis Tønsberg, Lecidella

subviridis (Høeg) Erichsen, Ochrolechia

subviridis Høeg, Pertusaria = Ochrolechia subviridis (Høeg) Erichsen

subviridula Vainio, Verrucaria

subvorticosa Nyl., Lecidea = Farnoldia jurana (Schaer.) Hertel

succedens (Rehm ex Arnold) Arnold, Staurothele

sudetica Körb., Lecidea

succica Kirschst., Lecio-grapha = Abrothallus succicus (Kirschst.) Nordin

suecica H.Magn., Ocellularia = Thelotrema suecicum (H.Magn.) P.James

suecica Källsten ex G.Thor, Opegrapha

suecicum (H.Magn.) P.James, Thelotrema

suecicus (Kirschst.) Nordin, Abrothallus

sulcata Taylor, Parmelia

sulphurea (Retz.) Middelb. & J.Mattsson,
Chaenotheca = Chaenotheca brachypoda (Ach.) Tibell

sulphurea auct., Coniocybe = Chaenotheca brachypoda (Ach.) Tibell

sulphurea (Retz) Nyl., Coniocybe

sulphurea (Hoffm.) Ach., Lecanora

sulphurea var. orosthea (Ach.) Flagey, Lecanora = Lecanora orosthea (Ach.) Ach.

sulphurea (Hoffm.) Wahlenb., Lecidea = Lecanora sulphurea (Hoffm.) Ach.

sulphurea f. straminea (Stenh.) Hedl., Lecidea = Lecanora sublivescens (Nyl.) Arnold

sulphurella Samp., Bacidia = Bacidina modesta (Zwackh ex Vain.) S.Ekman

sulphurella (Samp.) M.Hauck & V.Wirth, Bacidina = Bacidina modesta (Zwackh ex Vain.) S.Ekman

sulphurella Wahlenb., Coniocybe = Chaenotheca brachypoda (Ach.) Tibell

sulphurella Th.Fr., Lecidea = Lecanora marginata (Schaer.) Hertel & Rambold

sulphurina (Michx.) Fr., Cladonia

sundellii Coppins & Muhr, Micarea = Micarea lapillicola (Vain.) Coppins & Muhr

suomensis Gyeln., Peltigera = Peltigera canina (L.) Willd.

suomiense Räsänen, Rhizocarpon

suomiensis Räsänen, Lemmopsis = Placynthiella icmalea (Ach.) Coppins & P.James

superba (Körb.) Hertel, Huilia = Porpidia superba (Körb.) Hertel & Knoph

superba Körb., Lecidea = Porpidia superba (Körb.) Hertel & Knoph

superba (Körb.) Hertel & Knoph, Porpidia

superdistans (Nyl.) Malme, Candelariella

superellum Nyl., Thelocarpon

superficiale D.Hawksw. & Miądl., Polycoccum

superficiale (Schaer.) Vain., Rhizocarpon

superficiale (Schaer.) Vain. subsp. boreale Runemark, Rhizocarpon

superficiale (Schaer.) Vain. subsp. splendidum (Malme) Runemark, Rhizocarpon

superiuscula (Nyl.) Hue, Aspicilia = Miriquidica complanata (Körb.) Hertel & Rambold

superlata Vain., Lecidea = Aspicilia aspicilioidea (Th.Fr.) R.Sant.

superposita (Nyl.) Sacc. & D.Sacc., Pharcidia = Stigmidium superpositum (Nyl.) D.Hawksw.

superpositum (Nyl.) D.Hawksw., Stigmidium

superpositum (Nyl.) Th.Fr., Thelidium = Stigmidium superpositum (Nyl.) D.Hawksw.

supersparsa (Nyl.) Hertel, Carbonea

supersparsa Nyl., Lecidea = Carbonea supersparsa (Nyl.) Hertel

supersparsa (Nyl.) Rehm, Nesolechia = Carbonea supersparsa (Nyl.) Hertel

supertegens Arnold, Aspicilia

supertegens (Arnold) Zahlbr., Lecanora = Aspicilia supertegens Arnold

supertegentis Ihlen & R.Sant., Lichenostigma

superveniens (Nyl.) Sacc., Metasphaeria = Perigrapha superveniens (Nyl.) Hafellner

superveniens sensu Santesson 1949, Metasphaeria = Cercidospora stereocaulorum (Arnold) Hafellner

superveniens (Nyl.) Hafellner, Perigrapha

surrecta (Flörke) Sandst., Cladonia = Cladonia scabriuscula (Delise) Nyl.

suspiciosa (Nyl.) H.Magn., Caloplaca = Parvoplaca suspiciosa (Nyl.) Arup et al.

suspiciosa Nyl., Lecanora = Parvoplaca suspiciosa (Nyl.) Arup et al.

suspiciosa (Nyl.) Arup et al., Parvoplaca

suzai Nádvt., Chaenotheca = Chaenotheca chlorella (Ach.) Müll.Arg.

swartzii (Ach.) Ach., Lecanora

swartzii (Ach.) Ach. subsp. nylanderii (Räsänen) Leuckert & Poelt, Lecanora

swartzii (Ach.) Ach. subsp. swartzii, Lecanora

swartzii Ach., Lichen = Lecanora swartzii (Ach.) Ach.

swartzioidea Nyl., Lecidea

synchogonioides, Geissleria = Strigula

synchogonioides (Nitschke) R.C.Harris

synchogonioides (Nitschke) R.C.Harris, Strigula

sylvana sensu Th.Fr., Lecidea = Lecidea sphaerella Hedl.

sylvatica auct., Cladonia = Cladonia arbuscula (Wallr.) Flot.

sylvatica (Huds.) Ach., Sticta

sylvestris (Arnold) Arnold, Lecania

sylvestris Vain., Lecidea

sylvicola (Flot. ex Körb.) S.Ekman & M.Svensson, Brianaria

sylvicola Flot. ex Körb., Lecidea = Brianaria

sylvicola (Flot. ex Körb.) S.Ekman & M.Svensson

sylvicola Orange, Lepraria

sylvicola (Flot.) Vězda & V.Wirth, Micarea = Brianaria sylvicola (Flot. ex Körb.) S.Ekman & M.Svensson

symbolana Nyl., Verrucaria = Hydropunctaria

amphibia (Clemente) Cl.Roux

symmicta (Ach.) Ach., Lecanora

symmicta var. solediosa L.Westman, Lecanora = Lecanora orae-frigidae R.Sant.

symmicta (Ach.) Ach., Lecidea = Lecanora

symmicta (Ach.) Ach.

symmicta f. straminea (Stenh.) Th.Fr., Lecidea = Lecanora sublivescens (Nyl.) Arnold

symmictella Nyl., Lecidea = Puttea caesia (Fr.) M.Svensson & T.Sprib.

symmictella var. albida Vain., Lecidea = Puttea margaritella (Hulting) S.Stenroos & Huhtinen

symmictera (Nyl.) Räsänen, Biatora = Lecanora symmicta (Ach.) Ach.

symmictera Nyl., Lecanora = Lecanora symmicta (Ach.) Ach.

symmictiza (Nyl.) Hedl., Lecanora = Lecanora hypoptella (Nyl.) Grumann

symmictiza Nyl., Lecidea = Lecanora hypoptella (Nyl.) Grumann

symphorea auct., Synalissa = Synalissa ramulosa (Hoffm.) Fr.

symphycarpa (Flörke) Fr., Cladonia

symphycarpia auct., Cladonia = Cladonia

symphycarpa (Flörke) Fr.

symphycheilum I.M.Lamb, Stereocaulon

symplecta H.Magn., Lecidea = Lambiella impavida (Th.Fr.) M.Westb. & Resl

syncomista (Flörke) Th.Fr., Toninia = Bilimbia lobulata (Sommerf.) Hafellner & Coppins

syncomistum (Flörke) Vain., Thalloedaema = Bilimbia lobulata (Sommerf.) Hafellner & Coppins

synothea auct., Catillaria = Micarea denigrata (Fr.) Hedl.

synothea auct., Lecidea = Micarea denigrata (Fr.) Hedl.

synotheoides (Nyl.) Coppins, Micarea

syntrophica Vain., Lecidea = Arthonia intexta Almq.

syringea (Ach.) Th.Fr., Lecania = Lecania fuscilla (Schacr.) A.Massal.

szatalaensis Versegghy, Ochrolechia

tabacina auct. non (DC.) Flagey, Toninia = Toninia

tristis (Th.Fr.) Th.Fr. subsp. tristis

tabacinae Arnold, Sphaerulina = Stigmatidium

tabacinae (Arnold) Triebel

tabacinae (Arnold) Triebel, Stigmatidium

taeniarum (Malme) V.Wirth & Vězda, Fuscidea = Fuscidea austera (Nyl.) P.James

- taeniarum Malme, Lecidea = Fuscidea austera (Nyl.) P.James
- taeniarum (H.Magn.) Kivistö, Stereocaulon**
- taernaënsis H.Magn., Dermatocarpon**
- taernaënsis (H.Magn.), Verrucaria = Dermatocarpon taernaënsis H.Magn.
- takalae Räsänen, Lecanactis = Lecanographa abscondita (Th.Fr.) Egea & Torrente
- talcofila (Ach.) Körb., Karschia**
- talcofila Ach., Lecidea = Karschia talcofila (Ach.) Körb.
- tallbackaensis Pykälä et al., Verrucaria**
- tanaënsis Nyl., Lecanora
- tangeriense (Maheu & A.Gillet) Zahlbr., Nephroma**
- tangerina (M.Westb. & Wedin) K.Knudsen & L. Arcadia, Myriospora**
- tangerina M.Westb. & Wedin, Silobia = Myriospora tangerina (M.Westb. & Wedin) K.Knudsen & L. Arcadia
- tantaleum (Hepp) Hue, Placynthium**
- taractica auct., Parmelia = Xanthoparmelia stenophylla (Ach.) Ahti & D.Hawksw.
- taractica auct., Xanthoparmelia = Xanthoparmelia stenophylla (Ach.) Ahti & D.Hawksw.
- tarandina (Nyl.) Vain., Gyalecta = Bacidina phacodes (Körb.) Vězda
- tarandina Nyl., Lecidea = Bacidina phacodes (Körb.) Vězda
- tartarea (L.) A.Massal., Ochrolechia**
- tartarea f. granulosa Räsänen, Ochrolechia = Ochrolechia tartarea (L.) A.Massal.
- tartarea var. lapuensis Räsänen, Ochrolechia = Ochrolechia frigida (Sw.) Lyngae
- tartarea var. theleporoides (Th.Fr.) Arnold, Ochrolechia = Ochrolechia frigida (Sw.) Lyngae
- tartaricola auct., Synaptospora = Roselliniopsis ventosa (Rostr.) Alstrup
- tartaricola (Linds.) Alstrup & D.Hawksw., Weddellomyces**
- tartarina (Nyl.) Keissl., Metasphaeria = Sagediopsis campsteriana (Linds.) D.Hawksw. & R.Sant.
- tartarina (Nyl.) Vain., Sagediopsis = Sagediopsis campsteriana (Linds.) D.Hawksw. & R.Sant.
- tartarina Nyl., Verrucaria = Sagediopsis campsteriana (Linds.) D.Hawksw. & R.Sant.
- tasmanica, Chaenothecopsis = Chaenothecopsis nigra Tibell
- taurica Szatala, Thalloidima**
- taurica (Szatala) Oxner, Toninia = Thalloidima taurica Szatala
- tavastiana H.Magn., Catillaria = Adolecia kolaënsis (Nyl.) Hertel & Rambold
- taylori (Carroll ex Nyl.) R.C.Harris, Strigula tectorum (A.Massal.) Körb., Verrucaria**
- tegularis auct., Caloplaca = Caloplaca saxicola (Hoffm.) Nordin
- tegularis (Ehrh.) Sandst., Caloplaca = Rusavskia elegans (Link) S.Y.Kondr. & Kärnefelt
- teicholyta auct., Caloplaca = Caloplaca erythrocarpa (Pers.) Zwackh
- teicholyta (Ach.) J.Steiner, Caloplaca**
- teichophila (Nyl.) Arnold, Rinodina**
- templetonii Taylor, Lecidea = Bryobilimbia hypnorum (Lib.) Fryday et al.
- tenax (Sw.) Ach., Collema = Enchylium tenax (Sw.) Gray
- tenax var. expansum Degel., Collema = Enchylium expansum (Degel.) P.M.Jørg.
- tenax (Sw.) Gray, Enchylium**
- tenebrica (Nyl.) Hav., Biatora = Fuscidea tenebrica (Nyl.) V.Wirth & Vězda
- tenebrica (Nyl.) V.Wirth & Vězda, Fuscidea**
- tenebrica H.Magn., Lecanora = Sagedia zonata Ach.
- tenebrica Nyl., Lecidea = Fuscidea tenebrica (Nyl.) V.Wirth & Vězda
- tenebrica H.Magn., Verrucaria**

tenebricans Nyl., Lecidea = Miriquidica complanata (Körb.) Hertel & Rambold

tenebricosa Nyl., Lecidea = Lecidea erythrophaea Flörke ex Sommerf.

tenebrosa Flot., Lecidea = Schaereria fuscocinerea (Nyl.) Clauzade & Cl.Roux

tenebrosa var. lygaeoides Vain., Lecidea = Schaereria fuscocinerea (Nyl.) Clauzade & Cl.Roux

tenebrosa subsp. somphotera var. serenior Vain., Lecidea = Schaereria serenior (Vain.) Vitik.

tenebrosa (Flot.) Hertel & Poelt in Hawksworth P. James & Coppins, Schaereria = Schaereria fuscocinerea (Nyl.) Clauzade & Cl.Roux

tenella Kullh., Bacidia

tenella (Scop.) DC., Physcia

tenella var. marina (E.Nyl.) Lyngé, Physcia = Physcia tenella (Scop.) DC.

tenellula Nyl., Arthonia

tenellum Vain., Spilonema = Spilonema paradoxum Bornet

tenera (Lönnr.) Blomb. & Forssell, Bacidia

tenera (Nyl.) Cromb., Lecanora = Cliostomum tenerum (Nyl.) Coppins & S.Ekman

tenerum (Nyl.) Coppins & S.Ekman, Cliostomum

tenesseense H.Magn., Stereocaulon

tenue Henssen, Psoroma

tenue Henssen var. boreale, Psoroma

tenuicula Nyl., Lecidea = Lecanora phaeostigma (Körb.) Almb.

tenuifolia (Retz.) R.Howe, Cetraria = Cetraria ericetorum Opiz

tenuifolia f. tectorum Räsänen, Cetraria = Cetraria ericetorum Opiz

tenuis E.Dahl, Alectoria = Bryoria tenuis (E.Dahl) Brodo & D.Hawksw.

tenuis (E.Dahl) Brodo & D.Hawksw., Bryoria

tenuis (Flörke) B.de Lesd., Cladonia = Cladonia ciliata Stirt.

tenuis (Flörke) Harm., Cladonia = Cladonia ciliata Stirt.

tenuis var. leucophaea (Abbayes) Ahti, Cladonia = Cladonia ciliata Stirt.

tenuispora (D.Hawksw.) Lowen, Pronectria

tenuissima (L.) Vain., Cetraria = Cetraria aculeata (Schreb.) Fr.

tenuissima (L.) Räsänen, Cornicularia = Cetraria aculeata (Schreb.) Fr.

tenuissimum (Dicks.) Körb., Leptogium = Scytinium tenuissimum (Dicks.) Otálora et al.

tenuissimum (Dicks.) Otálora et al., Scytinium

tephra Hue, Aspicilia = Aspicilia cinerea (L.) Körb.

tephraspis (Nyl.) Herre, Rinodina

tephroides (Ach.) W.Mann, Dermatocarpon = Catapyrenium cinereum (Pers.) Körb.

tephroides (Ach.) Ach., Endocarpon = Catapyrenium cinereum (Pers.) Körb.

tephromelarum Kalb & Hafellner, Skyttea

terebrata (Hoffm.) A.Massal., Menegazzia

teretiuscula (Ach.) Lyngé, Physcia = Physcia dubia (Hoffm.) Lettau

teretiuscula f. corticola Koskinen, Physcia = Physcia dubia (Hoffm.) Lettau

teretiusculum (Wallr.) Arnold, Leptogium = Scytinium teretiusculum (Wallr.) Otálora et al.

teretiusculum (Wallr.) Otálora et al., Scytinium

terminalis O.F.Müll., Lichen = Hydropunctaria maura (Wahlenb.) C.Keller et al.

ternaria (Nyl.) Lettau, Bacidia = Micarea ternaria (Nyl.) Vězda

ternaria (Nyl.) Vězda, Micarea

terrestre (Th.Fr.) Savić & Tibell, Sporodictyon

terrestris Th.Fr., Polyblastia = Sporodictyon terrestre (Th.Fr.) Savić & Tibell

terrestris Tomin, Rinodina

terrestris (Arnold) Vain, Verrucaria = Verrucaria xyloxena Norman

terricola (Anzi) Lindau, Blastenia = Protoblastenia
terricola (Anzi) Lyngé

terricola (Arnold) M.Schultz et al., Llimoniella

terricola (Anzi) Lyngé, Protoblastenia

terrigena Ach., Lecidea = Aphanopsis coenosa (Nyl.)
Coppins & P.James

terrigena Zschacke, Polyblastia

terrigenum (Th.Fr.) Forssell, Pyrenopsidium =
Pyrenopsis furfurea (Nyl.) Leight.

tersa auct., Arthopyrenia = Acrocordia gemmata
(Ach.) A.Massal.

tessellata Flörke, Lecidea

**tessellata Flörke var. caesia (Anzi) Arnold,
Lecidea**

tessellata Flörke var. tessellata, Lecidea

tesserata Körb., Buellia

tesserata (DC.) Nyl., Lithographa

testacea (Hoffm.) M. Choisy, Chrysopsora = Psora
testacea Hoffm.

testacea P.M.Jørg., Parmeliella

testacea (Hoffm.) Clauzade & Rondon,
Protoblastenia = Psora testacea Hoffm.

testacea Hoffm., Psora

testaceoatra (Vain.) Hafellner, Calvitimela =
Calvitimela melaleuca (Sommerf.) M.P.Andreev

testaceoatra Vain., Lecidea = Calvitimela melaleuca
(Sommerf.) M.P.Andreev

testaceoatra (Vain.) Hertel & Rambold, Tephromela
= Calvitimela melaleuca (Sommerf.) M.P.Andreev

testaceolivida Vain., Lecanora

testudinea (Ach.) A.Massal., Sporastatia

tetramera (De Not.) Coppins, Bacidia =
Mycobilimbia tetramera (De Not.) Vitik. et al. ex
Hafellner & Türk

tetramera (De Not.) Coppins, Biatora =
Mycobilimbia tetramera (De Not.) Vitik. et al. ex
Hafellner & Türk

**tetramera (De Not.) Vitik. et al. ex Hafellner &
Türk, Mycobilimbia**

tetramerum (Vain.) Vain., Rhizocarpon

tetraspora (Nyl.) Rehm, Blastenia = Bryoplaca
tetraspora (Nyl.) Søchting et al.

tetraspora (Nyl.) Søchting et al., Bryoplaca

tetraspora (Nyl.) H.Olivier, Caloplaca = Bryoplaca
tetraspora (Nyl.) Søchting et al.

tetrasporum Th.Fr., Leptogium = Scytinium
tetrasporum (Th.Fr.) Otálora et al.

tetrasporum (Th.Fr.) Otálora et al., Scytinium

thalassina (Zahlbr.) Zschacke, Verrucaria

thallina (Cooke) Hafellner, Lichenochora =
Lichenochora obscuroides (Linds.) Triebel &
Rambold

thallina (Cooke) Lettau, Pharcidia = Lichenochora
obscuroides (Linds.) Triebel & Rambold

thallincola (Wedd.) Du Rietz, Caloplaca =
Variospora thallincola (Wedd.) Arup et al.

thallincola (Wedd.) Arup et al., Variospora

thallophila H.Magn., Lecania = Halecania alpivaga
(Th.Fr.) M.Mayrhofer

thallophila (P.Karst.) Sacc., Pyrenopeziza =
Unguiculariopsis thallophila (P.Karst.) W. Y.
Zhuang

thallophila (P.Karst.) Sherwood et al., Skyttea =
Unguiculariopsis thallophila (P.Karst.) W. Y.
Zhuang

thallophila P.Karst., Trochila = Unguiculariopsis
thallophila (P.Karst.) W. Y. Zhuang

**thallophila (P.Karst.) W. Y. Zhuang,
Unguiculariopsis**

thamnones (Flot.) Arnold, Evernia = Evernia
mesomorpha Nyl.

thamnones (Flot.) Arnold, Letharia = Evernia
mesomorpha Nyl.

thamnotiae Zhurb., Capronia

thamnotiae Zhurb. et al., Odontotrema =
Sphaeropezia thamnotiae (Zhurb. et al.) Baloch &
Wedin

thamnotiae Zhurb., Sphaerellothecium

thamnoliae Zhurb. var. thamnoliae,
Sphaerellothecium =

**thamnoliae (Zhurb. et al.) Baloch & Wedin,
Sphaeropezia**

thamnoilicola Ihlen, Cercidospora

**thamnoilicola Alstrup & E.S.Hansen,
Merismatium**

theiodes Sommerf., Lecidea = Lecidea lapicida
(Ach.) Ach. var. pantherina Ach.

theleodes (Sommerf.) Savić et al., Henrica

theleodes auct. p.p., Polyblastia = Sporodictyon
schaererianum A.Massal.

theleodes (Sommerf.) Th.Fr., Polyblastia = Henrica
theleodes (Sommerf.) Savić et al.

theleodes var. inundata Nyl. ex Th.Fr., Polyblastia =
Atla alpina Savić & Tibell

theleodes Sommerf., Verrucaria = Henrica theleodes
(Sommerf.) Savić et al.

**thelostomum (Ach. ex J.Harriman) Coppins &
Aptroot, Pyrenocarpon**

thelostomum (Ach. ex J.Harriman) A.L.Sm.,
Thrombium = Pyrenocarpon thelostomum (Ach. ex J.
Harriman) Coppins & Aptroot

thelotrematis Coppins, Opegrapha

thelotremoides Nyl., Gyalecta = Gyalecta hypoleuca
(Ach.) Zahlbr.

thioconis Norman, Buellia = Sclerococcum
parasiticum (Flörke) Ertz & Diederich

thiodes Spreng., Lecanora = Lecanora argopholis
(Ach.) Ach.

thiopsora (Nyl.) H.Olivier, Toninia

thomsonii Gowan, Porpidia

thouarsii (Delise) Degel., Pseudocyphellaria =
Pseudocyphellaria intricata (Delise) Vain.

thrausta Ach., Alectoria = Ramalina thrausta (Ach.)
Nyl.

thrausta (Ach.) Nyl., Ramalina

thulensis Th.Fr., Alectoria = Alectoria nigricans
(Ach.) Nyl.

thulensis Th.Fr., Lecanora = Myriolecis contractula
(Nyl.) Śliwa et al.

tianensis Vain., Lecidea

tibelliorum Pykälä & Myllys, Atla

tigillare (Ach.) Pers., Calicium

tigillare (Ach.) Ach., Cyphelium = Calicium tigillare
(Ach.) Pers.

tigillare subsp. notarisii (Tul.) W.A. Weber,
Cyphelium = Calicium notarisii (Tul.) M.Prieto &
Wedin

tilasii Kullh., Lecanora = Bellemerea
cinereorufescens (Ach.) Clauzade & Cl.Roux

tilesii Ach., Cetraria = Vulpicida tilesii (Ach.) J.-E.
Mattsson & M.J.Lai

tilesii auct. p.p., Cetraria = Vulpicida tubulosus
(Schaer.) J.-E.Mattsson & M.J.Lai

tilasii (Ach.) J.-E.Mattsson & M.J.Lai, Vulpicida

tiliacea (Hoffm.) Ach., Parmelia = Parmelina tiliacea
(Hoffm.) Hale

tiliacea var. pastillifera (Harm.) Grumann,
Parmelia = Parmelina pastillifera (Harm.) Hale

tiliacea (Hoffm.) Hale, Parmelina

timdalii Ihlen & Fryday, Rhizocarpon

timidula Th.Fr. & Almq. ex Th.Fr., Catillaria

timidula auct., Lecidella = Catillaria timidula Th.Fr.
& Almq. ex Th.Fr.

tincta auct., Nectriella = Pronectria santessonii
(Lowen & D.Hawksw.) Lowen

tincta (Fuckel) Lowen, Pronectria

tinctina Maheu & A.Gillet, Parmelia =
Xanthoparmelia tinctina (Maheu & A.Gillet) Hale

**tinctina (Maheu & A.Gillet) Hale,
Xanthoparmelia**

tinctoria auct., Ramalina = Ramalina capitata (Ach.)
Nyl.

tinctorius Web., Ramalina

tinei subsp. arcticum Runemark, Rhizocarpon =
Rhizocarpon geographicum (L.) DC. subsp. arcticum
(Runemark) Hertel

tinei subsp. diabasicum (Räsänen) Runemark,
Rhizocarpon = Rhizocarpon geographicum (L.) DC.
subsp. diabasicum (Räsänen) Poelt & Vězda

tinei subsp. frigidum (Räsänen) Runemark,
Rhizocarpon = Rhizocarpon frigidum Räsänen

tinei subsp. prospectans (Räsänen) Runemark,
Rhizocarpon = Rhizocarpon geographicum (L.) DC.
subsp. prospectans (Räsänen) D.Hawksw. & Sowter

tinei subsp. vulgare Runemark, Rhizocarpon =
Rhizocarpon geographicum (L.) DC. subsp.
geographicum

tirolensis H.Magn., Biatorella

tirolensis Zahlbr., Caloplaca = Parvoplaca tirolensis
(Zahlbr.) Arup et al.

tirolensis (Zahlbr.) Arup et al., Parvoplaca

toensbergii Holien & Frisch, Arthonia

toensbergii Holien & Printzen, Biatora

toensbergii Haugan & Timdal, Lecidea

tomentosa Czarnota & Coppins, Micarea

tomentosum (Hoffm.) Flot., Nephroma = Nephroma
resupinatum (L.) Ach.

tomentosum Fr., Stereocaulon

tomentosum f. graphiticola Räsänen, Stereocaulon =
Stereocaulon saxatile H.Magn.

tominii Savicz, Caloplaca = Xanthocarpia tominii
(Savicz) Frödén et al.

tominii (Oxner) Essl., Melanelia = Montanelia
tominii (Oxner) Divakar et al.

tominii (Oxner) Divakar et al., Montanelia

tominii Oxner, Parmelia = Montanelia tominii
(Oxner) Divakar et al.

tominii (Savicz) Frödén et al., Xanthocarpia

torellii (Anzi) Nyl., Lecidea = Ainoa mooreana
(Carroll) Lumbsch & I.Schmitt

torellii (Anzi) Hertel, Trapelia = Ainoa mooreana
(Carroll) Lumbsch & I.Schmitt

**tornense (H.Magn.) P.James & Purvis,
Stereocaulon**

tornense H.Magn., Bacidia = Stereocaulon tornense
(H.Magn.) P.James & Purvis

tornense (H.Magn.) M.Mayrhofer, Halecania

tornense H.Magn., Lecania = Halecania tornense
(H.Magn.) M.Mayrhofer

tornense H.Magn., Pertusaria

tornense H.Magn., Verrucaria

tornoënsis H.Magn., Caloplaca

tornoënsis (Nyl.) Tønsberg, Japewia

tornoënsis Nyl., Lecidea = Japewia tornoënsis (Nyl.)
Tønsberg

tornoënsis (Nyl.) R.A. Anderson, Mycoblastus =
Japewia tornoënsis (Nyl.) Tønsberg

torrefacta (Lightf.) Cromb, Gyrophora = Umbilicaria
torrefacta (Lightf.) Schrad.

torrefacta (Lightf.) Schrad., Umbilicaria

torrentis Servít, Polyblastia

torrida Vain., Lecanora = Myriolecis torrida (Vain.)
Śliwa et al.

torrida (Vain.) Śliwa et al., Myriolecis

torta Taylor, Variolaria = Aquacidia antricola
(Hulting) Aptroot

tortuosa (Merr.) Brodo & D.Hawksw., Bryoria =
Bryoria fremontii (Tuck.) Brodo & D.Hawksw.

torvula (Nyl.) Blomb. & Forssell, Biatorella =
Strangospora torvula (Nyl.) R.A.Anderson

torvula Nyl., Lecidea = Strangospora torvula (Nyl.)
R.A.Anderson

torvula (Nyl.) R.A.Anderson, Strangospora

trabalis (Ach.) Nyl., Lecanora = Lecanora symmicta
(Ach.) Ach.

trabalis Nyl., Verrucaria

trabicola Arnold ex Servít, Verrucaria

trabinellum (Ach.) Ach., Calicium

trachelinum (Ach.) Ach., Calicium = Calicium
salicinum Pers.

trachinodes Norman, Verrucaria = Hydropunctaria
maura (Wahlenb.) C.Keller et al.

trachona (Ach.) Aptroot, Aquacidia

trachona (Ach.) Lettau, Bacidia = Aquacidia

trachona (Ach.) Aptroot

trachona (Ach.) Arnold, Bilimbia = Aquacidia

trachona (Ach.) Aptroot

trachyloides (Nyl. ex Branth & Rostr.) M.Prieto & Wedin, Calicium

trachyloides (Nyl. ex. Branth & Rostr.) Erichsen, Cyphelium = Calicium trachyloides (Nyl. ex Branth & Rostr.) M.Prieto & Wedin

trachytera (Nyl. ex Vain.) Henssen, Ephebe = Ephebe perspinulosa Nyl.

trachytera (Vain.) Norrl. & Nyl., Ephebeia = Ephebe perspinulosa Nyl.

trachythallina (Erichsen) Lendemmer & R.C. Harris, Lepra

trachythallina Erichsen, Pertusaria = Lepra

trachythallina (Erichsen) Lendemmer & R.C.Harris

trachytica (A.Massal.) Bagl. & Carestia, Rinodina

trachyticum (Hazsl) R.Sant., Catapyrenium = Placopyrenium trachyticum (Hazsl.) Breuss

trachyticum (Hazsl.) Vain., Dermatocarpon = Placopyrenium trachyticum (Hazsl.) Breuss

trachyticum Hazsl., Endopyrenium = Placopyrenium trachyticum (Hazsl.) Breuss

trachyticum (Hazsl.) Servit, Placidiopsis = Placopyrenium trachyticum (Hazsl.) Breuss

trachyticum (Hazsl.) Breuss, Placopyrenium

transfugiens Zschacke, Verrucaria

transiliens (Arnold) Lettau, Verrucaria

transitoria (Arnold) Hertel, Melanolechia

trapeziforme auct., Dermatocarpon = Placidium lachneum (Ach.) B.de Lesd.

trapeziforme (J. Koenig) Trevis., Endocarpon = Endocarpon pusillum Hedw.

trassii Ahti, Cladonia

trechalea (Nyl.) Arnold, Sagedia = Porina mammillosa (Th.Fr.) Vain.

trechalea Nyl., Verrucaria = Porina mammillosa (Th. Fr.) Vain.

tremelloides auct., Leptogium = Leptogium cyanescens (Rabenh.) Körb.

tremelloides L.f., Leptogium = Leptogium cochleatum (Dicks.) P.M.Jørg. & P.James

tremelloides Weiss, Lichen = Scytinium lichenooides (L.) Otálora et al.

tremniacense A.Massal., Catapyrenium = Invulucropyrenium tremniacense (A.Massal.) Breuss

tremniacense (A.Massal.) Breuss, Invulucropyrenium

tremniacum (A.Massal.) Jatta, Placynthium

tremulae auct., Leptorhaphis = Leptorhaphis atomaria (Ach.) Szatala

tremulae var. lucida (Körb.) Keissl., Leptorhaphis = Leptorhaphis lucida Körb.

tremulicola (Norrl. ex Nyl.) Tibell, Phaeocalicium

tremulicola Nyl., Physcia = Phaeophyscia nigricans (Flörke) Moberg

tremulicola subsp. leptothallina Vain., Physcia = Phaeophyscia nigricans (Flörke) Moberg

tremulicola Norrl. ex Nyl., Stenocybe = Phaeocalicium tremulicola (Norrl. ex Nyl.) Tibell

trevisanii Hepp, Psora = Rinodina trevisanii (Hepp) Körb.

trevisanii (Hepp) Körb., Rinodina

tribacia (Ach.) Nyl., Physcia

trichialis (Ach.) Th.Fr., Chaenotheca

trichialis f. aurea Vain., Chaenotheca = Chaenotheca ferruginea (Turner ex Sm.) Mig.

trichialis var. caerulescens f. phaeopus Vain., Chaenotheca = Chaenotheca trichialis (Ach.) Th.Fr.

trichialis var. cinerea (Pers.) Blomb. & Forssell, Chaenotheca = Chaenotheca cinerea (Pers.) Tibell

trichialis var. ferruginella Vain., Chaenotheca = Chaenotheca trichialis (Ach.) Th.Fr.

trichialis var. physioidea Vain., Chaenotheca = Chaenotheca trichialis (Ach.) Th.Fr.

trichialis subsp. stemonea (Ach.) Zwackh,
Chaenotheca = Chaenotheca stemonea (Ach.) Müll.
Arg.

trichodes subsp. americana (Motyka) Brodo & D.
Hawksw., Bryoria = Bryoria americana (Motyka)
Holien

trichogena Norman, Lecidea = Steinia geophana
(Nyl.) Stein

trichosporella (Nyl.) Riedl, Leptorhaphis =
Rhaphidicyrtis trichosporella (Nyl.) Vain.

trichosporella (Nyl.) Vain., Rhaphidicyrtis

trichosporellum (Nyl.) Zahlbr., Mycoporellum =
Rhaphidicyrtis trichosporella (Nyl.) Vain.

trichosporellum Nyl., Mycoporum = Rhaphidicyrtis
trichosporella (Nyl.) Vain.

trichotera Hue, Parmelia = Parmotrema perlatum
(Huds.) M.Choisy

trichoterum (Hue) M.Choisy, Parmotrema =
Parmotrema perlatum (Huds.) M.Choisy

tricolor auct., Catillaria = Cliostomum griffithii
(Sm.) Coppins

trifracta J.Steiner, Buellia = Tetramelas geophilus
(Flörke ex Sommerf.) Norman

triglavensis Servit, Verrucaria

triphragmia (Nyl.) Arnold, Buellia = Tetramelas
geophilus (Flörke ex Sommerf.) Norman

triphragmia sensu Räsänen, Buellia = Buellia
disciformis (Fr.) Mudd

triphragmia subsp. thionella Norman, Buellia =
Tetramelas triphragmioides (Anzi) A.Nordin &
Tibell

triphragmioides Anzi, Buellia = Tetramelas
triphragmioides (Anzi) A.Nordin & Tibell

**triphragmioides (Anzi) A.Nordin & Tibell,
Tetramelas**

triplicantis (Vain.) Räsänen, Lecigrapha =
Sclerococcum deminutum (Th.Fr.) Ertz & Diederich

triptophylla (Ach.) A.Massal., Pannaria = Parmeliella
triptophylla (Ach.) Müll.Arg.

triptophylla (Ach.) Müll.Arg., Parmeliella

trisepta (Hellb.) Zahlbr., Bacidia = Micarea
peliocarpa (Anzi) Coppins & R.Sant.

trisepta (Hellb.) Arnold, Bilimbia = Micarea
peliocarpa (Anzi) Coppins & R.Sant.

triseptatula Nyl., Lecidea = Micarea peliocarpa
(Anzi) Coppins & R.Sant.

triseptatum H.Magn., Rhizocarpon = Rhizocarpon
tetramerum (Vain.) Vain.

tricolor Th.Fr., Lecanora = Protoparmelia nephaea
(Sommerf.) R.Sant.

tristricula (Nyl.) Zahlbr., Agonimia

tristricula (Nyl.) Arnold, Polyblastia = Agonimia
tristricula (Nyl.) Zahlbr.

tristis (Müll.Arg.) Arnold, Catillaria = Kiliasia tristis
(Müll.Arg.) Hafellner

tristis (Weber) Fr., Cetraria = Cornicularia
normoerica (Gunnerus) Du Rietz

tristis (Weber) Ach., Cornicularia = Cornicularia
normoerica (Gunnerus) Du Rietz

tristis (Müll.Arg.) Hafellner, Kiliasia

tristis, Kiliasia =

tristis Müll.Arg., Patellaria = Kiliasia tristis (Müll.
Arg.) Hafellner

tristis (Th.Fr.) Th.Fr. subsp. tristis, Toninia

tristis (A.Massal.) Kremp., Verrucaria

tristiuscula H.Magn., Caloplaca = Rufoplaca
tristiuscula (H.Magn.) Arup et al.

tristiuscula (H.Magn.) Arup et al., Rufoplaca

trivialis (Willey ex Tuck.) Vězda, Absconditella

trivialis A.Nordin et al. nom, Lecanora =
Cliostomum flavidulum Hafellner & Kalb

trochiscea Norman, Pertusaria

trochodes (Taylor ex Leight.) Cromb., Lecidea =
Rimularia limborina Nyl.

troendelagica Holien & Printzen, Biatora

tromsoeënsis Norman, Acarospora = Sarcogyne
lapponica (Ach. ex Schaer.) K.Knudsen & Kocourk.

tromsoeënsis (H.Magn.) Räsänen, Aspicilia =
Sagedia zonata Ach.

tromsoeënsis H.Magn., Caloplaca

tromsoeënsis H.Magn., Lecanora = Sagedia zonata Ach.

trullisata (Kremp.) Körb., Porpidia

truncatus (B.de Lesd.) Dyko & D.Hawksw., Vouauxiomyces

truncigena (Ach.) Hepp, Gyalecta

truncigena var. croatica (Schuler & Zahlbr.) Vězda, Gyalecta = Gyalecta derivata (Nyl.) H.Olivier

truncigena var. derivata (Nyl.) Boistel, Gyalecta = Gyalecta derivata (Nyl.) H.Olivier

trunciseda (H.Magn.), Aspicilia = Aspicilia verrucigera Hue

trunciseda H.Magn., Lecanora = Aspicilia verrucigera Hue

trunciseda Th.Fr., Lecidea = Xylographa trunciseda (Th.Fr.) Minks ex Redinger

trunciseda (Th.Fr.) Minks ex Redinger, Xylographa

trypethelioides Th.Fr., Diatrype = Polycoccum trypethelioides (Th.Fr.) R.Sant.

trypethelioides (Th.Fr.) R.Sant., Polycoccum trypetheliza (Nyl.) Hafellner & Obermayer, Cercidospora

trypetheliza Nyl., Lecidea = Cercidospora trypetheliza (Nyl.) Hafellner & Obermayer

trypetheliza (Nyl.) Syd., Neonorrinia = Cercidospora trypetheliza (Nyl.) Hafellner & Obermayer

trypetheliza (Nyl.) Vain., Norrinia = Cercidospora trypetheliza (Nyl.) Hafellner & Obermayer

tsugae Funk, Szczawinskia

"tubaeformis", Sphinctrina = Sphinctrina tubiformis A.Massal.

tuberculata (Sommerf.) S.Ekman & M.Svensson, Brianaria

tuberculata Sommerf., Lecidea = Brianaria tuberculata (Sommerf.) S.Ekman & M.Svensson

tuberculata var. scandinavica Vain., Lecidea = Brianaria tuberculata (Sommerf.) S.Ekman & M.Svensson

tuberculata (Sommerf.) R.A.Anderson, Micarea = Brianaria tuberculata (Sommerf.) S.Ekman & M.Svensson

tuberculifera H.Magn., Lecidea = Lecanora formosa (Bagl. & Carestia) Knoph & Leuckert

tuberculosa auct., Bombyliospora = Megalospora pachycarpa (Delise ex Duby) H.Olivier

tuberculosa (Sm.) P.James, Huilia = Porpidia tuberculosa (Sm.) Hertel & Knoph

tuberculosa (Sm.) Hertel & Knoph, Porpidia

tuberculosa (Th.Fr.) Rehm, Scutula

tuberculosa auct., Scutula = Scutula miliaris (Wallr.) Trevis.

tuberculosis Alstrup & D.Hawksw., Karsteniomyces = Scutula tuberculosa (Th.Fr.) Rehm

tubiformis A.Massal., Sphinctrina

tubulosa (Schaer.) Zopf, Cetraria = Vulpicida

tubulosus (Schaer.) J.-E.Mattsson & M.J.Lai

tubulosa (Schaer.) Hav., Hypogymnia

tubulosa (Schaer.) Bitter, Parmelia = Hypogymnia tubulosa (Schaer.) Hav.

tubulosus (Schaer.) J.-E.Mattsson & M.J.Lai, Vulpicida

tuckerae Diederich, Tremella

tulasnei M.S.Cole & D.Hawksw., Abrothallus = Abrothallus parmeliarum (Sommerf.) Arnold

tumida A.Massal., Lecidea = Porpidia tuberculosa (Sm.) Hertel & Knoph

tumidior (Nyl.) Vain., Lecidea = Miriquidica obnubila (Th.Fr. & Hellb.) Hertel & Rambold

tumidula (Ach.) Ach., Arthonia = Coniocarpon cinnabarinum DC.

tumidula (A.Massal.) Knoph & Leuckert, Lecidella

tumidula (Sm.) Timdal, Porpidinia

tumidula (Sm.) Zahlbr., Toninia = Porpidinia tumidula (Sm.) Timdal

tumidulum Henssen ex P.M.Jørg. et al., Anema

tundrae Onut-Brännström & Tibell, Thamnolia = Thamnolia vermicularis (Sw.) Schaer. subsp. tundrae (Onut-Brännström & Tibell) P.M.Jørg.

tuniforme (Ach.) Ach., Collema = Lathagrium fuscovirens (With.) Otálora et al.

turbinata (Pers.:Fr.) De Not., Sphinctrina

turfacea (Wahlenb.) Körb., Rinodina

turfacea subsp. arenaria (Hepp) Th.Fr., Rinodina = Rinodina tephraspis (Nyl.) Herre

turfacea (Wahlenb.) Körb. var. cinereovirens (Vain.) H.Mayrhofer, Rinodina = Rinodina cinereovirens (Vain.) Vain.

turfacea (Wahlenb.) Körb. var. ecrustacea (Vain.) H. Olivier, Rinodina = Rinodina cinereovirens (Vain.) Vain.

turfacea var. roscida f. succedens (Nyl.) Blomb. & Forssell, Rinodina = Rinodina cinereovirens (Vain.) Vain.

turfacea (Wahlenb.) Körb. var. turfacea, Rinodina = Rinodina turfacea (Wahlenb.) Körb.

turficola (Hellb.) Th.Fr., Lecidea

turfosa (A.Massal.) Jatta, Lecidea = Micarea turfosa (A.Massal.) Du Rietz

turfosa (A.Massal.) Du Rietz, Micarea

turgida (Körb.) Hellb., Bacidia = Scoliciosporum umbrinum (Ach.) Arnold

turgida Hoffm., Cladonia

turgidella Vain., Staurothele = Staurothele areolata (Ach.) Lettau

turgidula (Fr.) Arnold, Biatora = Lecidea turgidula Fr.

turgidula Fr., Lecidea

turgidula var. pulveracea Th.Fr., Lecidea = Lecidea leprarioides Tønsberg

turgidum Körb., Scoliciosporum = Scoliciosporum umbrinum (Ach.) Arnold

turicensis (Hepp) Müll.Arg., Lecania

turkuense Vain., Placodium = Caloplaca turkuensis (Vain.) Zahlbr.

turkuensis (Vain.) Zahlbr., Caloplaca

turneri (Sm.) Hasselrot, Ochrolechia

turneri Leight., Opegrapha = Alyxoria culmigena (Libert) Ertz

tympanellum (Ach.) Ach., Cyphelium = Acolium inquinans (Sm.) A.Massal.

tyroliense (Nyl.) Lettau, Stereocaulon = Stereocaulon nanodes Tuck.

uberior Anzi, Buellia

ucrainica (S.Y.Kondr.) Frödén et al., Polycauliona

ucrainica S.Y.Kondr., Xanthoria = Polycauliona

ucrainica (S.Y.Kondr.) Frödén et al.

ulcerosa Coppins & P.James, Caloplaca

uliginosa (Schrad.) Körb., Biatora = Placynthiella

uliginosa (Schrad.) Coppins & P.James

uliginosa (Ahti) Ahti, Cladonia

uliginosa (Schrad.) Ach., Lecidea = Placynthiella

uliginosa (Schrad.) Coppins & P.James

uliginosa, Lecidea = Placynthiella oligotropha (J.R.

Laundon) Coppins & P.James

uliginosa f. hyporhoda (Th.Fr.) Hedl., Lecidea =

Placynthiella hyporhoda (Th.Fr.) Coppins & P.James

uliginosa var. verruculosa Hedl., Lecidea =

Placynthiella oligotropha (J.R.Laundon) Coppins & P.James

uliginosa (Schrad.) Coppins & P.James,

Placynthiella

uliginosa (Schrad.) Hafellner, Saccomorpha =

Placynthiella uliginosa (Schrad.) Coppins & P.James

uliginosum I.M.Lamb, Stereocaulon

ulmi (Sw.) Zahlbr., Gyalecta

ulophylla (Ach.) Rebert, Cetraria =

Tuckermannopsis chlorophylla (Willd.) Hale

ulophylla (Ach.) van Herk & Aptroot., Punctelia =

Punctelia jeckeri (Roum.) Kalb

ulophyllodes (Räsänen) Søchting et al.,

Xanthomendoza

ulophyllodes auct. scand., Xanthoria =

Xanthomendoza oregana (Gyeln.) Søchting et al.

ulophyllodes Räsänen, Xanthoria = Xanthomendoza
ulophyllodes (Räsänen) Søchting et al.

ulothii Körb., Cercidospora = Cercidospora
macrospora (Uloth) Hafellner & Nav.-Ros.

ulothrix Ach., Lichen = Phaeophyscia ciliata
(Hoffm.) Moberg

ultima Th.Fr., Lecidea = Cephalophysia leucospila
(Anzi) H.Kilias & Scheid.

**umbellifera (L.:Fr.) Redhead et al.,
Lichenomphalia**

umbellifera (L.:Fr.) Quél., Omphalina =
Lichenomphalia umbellifera (L.:Fr.) Redhead et al.

umbilicariae (Linds.) Hafellner, Endococcus

umbilicariae Linds., Microthelia = Endococcus
umbilicariae (Linds.) Hafellner

umbilicariae (Linds.) D.Hawksw., Polycoccus =
Endococcus umbilicariae (Linds.) Hafellner

umbilicariae Heuchert & Etayo, Taeniolella

umbilicarioides (Stein) Krog & Swinscow,
Umbilicaria

umbilicata Bagl., Acarospora

umbilicata Vain., Pyrenopsis = Thelignya lignyota
(Wahlenb.) P.M.Jørg. & Henssen

umbilicata (Ramond) V.Wirth, Siegertia =
Rhizocarpon umbilicatum (Ramond) Flagey

umbilicatum (Ramond) Flagey, Rhizocarpon

umbilicatum Th.Fr., Thelidium

umbonata (Hepp) Mudd, Lecidea

umbonata Henssen, Metamelanea

umbonella (Nyl.) Triebel & Rambold, Cecidonia

umbonella Nyl., Lecidea = Cecidonia umbonella
(Nyl.) Triebel & Rambold

umbonella var. alumnula (Nyl.) Hertel, Lecidea =
Cecidonia xenophana (Körb.) Triebel & Rambold

umbratula Nyl., Thelopsis = Thelopsis melathelia
Nyl.

umbricola Tønsberg & Ahti, Cladonia

umbricola Tønsberg, Lepraria

umbricolor H.Magn., Lecanora

umbricolum Räsänen, Rhizocarpon = Rhizocarpon
geographicum (L.) DC. subsp. diabasicum (Räsänen)
Poelt & Vězda

umbrina (Ach.) Bausch, Bacidia = Scoliciosporum
umbrinum (Ach.) Arnold

umbrina Coppins & P.James, Lecanactis =
Schismatomma umbrinum (Coppins & P.James) P.
M.Jørg. & Tønsberg

umbrina (Ach.) A.Massal., Lecanora

umbrina subsp. poliaena Nyl., Lecidea = Biatora
beckhausii (Körb.) Tuck.

umbrina (Wahlenb.) Tuck., Staurothele = Staurothele
fissa (Taylor) Zwackh

umbrinella (Nyl.) Zahlbr., Catillaria = Catillaria
lenticularis (Ach.) Th.Fr.

umbrinula Nyl., Verrucaria

umbrinum auct. non (Breuss) Breuss, Clavascidium
= Clavascidium alvarense (Breuss) M.Prieto

umbrinum (Breuss) Breuss, Clavascidium

umbrinum auct. non (Breuss) Prieto & Breuss,
Placidium = Clavascidium alvarense (Breuss) M.
Prieto

umbrinum Breuss, Placidium = Clavascidium
umbrinum (Breuss) Breuss

**umbrinum (Coppins & P.James) P.M.Jørg. &
Tønsberg, Schismatomma**

umbrinum (Ach.) Arnold, Scoliciosporum

umbrosa Degel., Lecanora

umbrosa (A.Massal.) Hertel, Lecidea = Lecidella
anomaloidea (A.Massal.) Hertel & H.Kilias

umbrosa Vězda & V.Wirth., Micarea = Brianaria
lutulata (Nyl.) S.Ekman & M.Svensson

umbrosa (A.Massal.) Trevis., Verrucaria

umbrosum A.Massal., Thelidium

umense (H.Magn.) A.Nordin, Rhizocarpon

umensis H.Magn., Acarospora = Acarospora
badiofusca (Nyl.) Th.Fr.

- umensis H.Magn., Buellia = Rhizocarpon umense (H.Magn.) A.Nordin
- umensis H.Magn., Lecidea = Porpidia crustulata (Ach.) Hertel & Knoph
- umhausense (Auersw.) Degel., Dendriscocaulon = Lobaria amplissima (Scop.) Forssell
- umhausense (Auersw.) Henssen, Polychidium = Lobaria amplissima (Scop.) Forssell
- uncialicola (Zopf) D.Hawksw., Bachmanniomyces = Bachmanniomyces punctum (A.Massal.) Diederich & Pino-Bodas
- uncialicola (Zopf) Vouaux, Phoma = Bachmanniomyces punctum (A.Massal.) Diederich & Pino-Bodas
- uncialis (L.) Weber ex F.H.Wigg., Cladonia**
- uncialis (L.) Weber ex F.H.Wigg. subsp. biuncialis (Hoffm.) M.Choisy, Cladonia**
- uncialis subsp. dicraea (Ach.) D.Hawksw., Cladonia = Cladonia uncialis (L.) Weber ex F.H.Wigg. subsp. biuncialis (Hoffm.) M.Choisy
- uncialis (L.) Weber ex F.H.Wigg. subsp. uncialis, Cladonia**
- undulatum Laurer ex Flot., Collema = Lathagrium
- undulatum (Flot.) Otálora et al.
- undulatum (Flot.) Otálora et al., Lathagrium**
- unicolor Sommerf., Lecanora = Lecanora swartzii (Ach.) Ach. subsp. nylanderii (Räsänen) Leuckert & Poelt
- uplandica (H.Magn.) Creveld, Aspicilia = Aspicilia verrucigera Hue
- uplandica H.Magn., Lecanora = Aspicilia verrucigera Hue
- upsaliensis (L.) A.Massal., Ochrolechia**
- urceolaria "(Fr.)" Wetmore, Lecanora = Megaspora verrucosa (Ach.) Hafellner & V.Wirth
- urceolata (Anzi) J.Steiner, Biatorella = Sarcogyne urceolata Anzi
- urceolata var. deminuta (Th.Fr.) Th. Fr., Buellia = Sclerococcum deminutum (Th.Fr.) Ertz & Diederich
- urceolata var. majuscula Th.Fr., Buellia = Sclerococcum deminutum (Th.Fr.) Ertz & Diederich
- urceolata (Th.Fr.) Arnold, Dactylospora = Sclerococcum urceolatum (Th.Fr.) Ertz & Diederich
- urceolata (Th.Fr.) Körb., Leciograpta = Sclerococcum urceolatum (Th.Fr.) Ertz & Diederich
- urceolata var. lopadii (Anzi) Sacc. & D.Sacc., Leciograpta = Merismatium nigritellum (Nyl.) Vouaux
- urceolata (Fr.) Almb., Melaspilea = Melaspilea urceolata (Fr.) Ertz & Diederich
- urceolata (Fr.) Ertz & Diederich, Melaspilea
- urceolata P.M.Jørg. & Jahns, Muhria = Stereocaulon urceolatum (P.M.Jørg. & Jahns) Högnabba
- urceolata (Anzi) Brodo, Polysporina = Sarcogyne urceolata Anzi
- urceolata Anzi, Sarcogyne**
- urceolata var. herpes Norman, Sarcogyne = Sarcogyne urceolata Anzi
- urceolatum (Th.Fr.) Ertz & Diederich, Sclerococcum**
- urceolatum (P.M.Jørg. & Jahns) Högnabba, Stereocaulon**
- urosperma Döbbeler, Epigloea**
- usneae Rabenh., Abrothallus**
- usneae (Anzi) D.Hawksw., Lichenocodium**
- usneae D.Hawksw. & Hafellner, Phaeosporobolus = Lichenostigma maureri Hafellner
- usnearum Räsänen, Biatoropsis**
- uvulare Norman, Endocarpon = Agonimia tristicula (Nyl.) Zahlbr.
- vacciniicola (Tønsberg) Printzen, Biatora**
- vacciniicola Tønsberg, Lecidea = Biatora vacciniicola (Tønsberg) Printzen
- vacillans Th.Fr. & Almq. ex Th.Fr., Arthrorhaphis**
- vacillans (Th.Fr.) Rostr., Bacidia = Arthrorhaphis vacillans Th.Fr. & Almq. ex Th.Fr.
- vacillans (Th.Fr.) H.Magn., Caloplaca = Blastenia ammiospila (Wahlenb.) Arup et al.
- vacillans H.Magn., Lecanora**

vacillans Pykälä & Myllys, Verrucaria

vaenerensis Servit, Verrucaria

vagans subsp. epimela Norman ex Almq., Arthonia = Arthonia epimela (Norman ex Almq.) I.M.Lamb

vagans var. koerberi (J.Lahm ex Arnold) Almq., Arthonia = Arthonia fusca (A.Massal.) Hepp

vagans var. lecanorina Almq., Arthonia = Arthonia lecanorina (Almq.) R.Sant.

vagans var. macularis Almq., Arthonia

vagans var. peltigerina Almq., Arthonia = Arthonia peltigerina (Almq.) H.Olivier

vagans subsp. rugulosa, Arthonia = Arthonia apatetica (A.Massal.) Th.Fr.

wahlenbergii H.Magn., Acarospora

wahlenbergii (Ach.) Sheard, Buellia = Catolechia wahlenbergii (Ach.) Körb.

wahlenbergii (Ach.) Körb., Catolechia

wahlenbergii Lynge, Physcia = Physcia dubia (Hoffm.) Lettau

vainioana Hakul., Candelariella

vainioana (Nádv.) Tibell, Chaenothecopsis

vainioana Räsänen, Nesolechia = Lecidella carpathica Körb.

vainioëense Lynge, Rhizocarpon = Rhizocarpon jemtlandicum Malme

vainioi H.Magn., Lecidea = Brianaria sylvicola (Flot. ex Körb.) S.Ekman & M.Svensson

wainioi Räsänen, Physcia = Physcia subalbinea Nyl.

waldrastensis (H.Magn.) Clauzade & Rondon, Aspicilia = Sagedia zonata Ach.

waldrastensis H.Magn., Lecanora = Sagedia zonata Ach.

valentior Nyl., Lecidea = Bryobilimbia ahlesii (Körb.) Fryday et al.

vallesiaca (Schaer.) Timdal, Psora

vallicola H.Magn., Lecidea

walrothiana Körb., Microglaena = Thelenella modesta (Nyl.) Nyl.

walrothiana var. septentrionalis Th.Fr., Microglaena = Thelenella modesta (Nyl.) Nyl.

walrothii Flörke, Lecidea = Trapeliopsis walrothii (Flörke ex Spreng.) Hertel & Gotth.Schneid.

walrothii (Flörke ex Spreng.) Hertel & Gotth. Schneid., Trapeliopsis

valpellinensis B.de Lesd., Aspicilia = Aspicilia supertegens Arnold

valpellinensis (B.de Lesd.) Zahlbr., Lecanora = Aspicilia supertegens Arnold

waltheri (Kremp.) Körb., Catapyrenium = Involucropyrenium waltheri (Kremp.) Breuss

waltheri (Kremp.) Blomb. & Forssell, Dermatocarpon = Involucropyrenium waltheri (Kremp.) Breuss

waltheri (Kremp.) Breuss, Involucropyrenium

varangrica Haugan & Tønsberg, Lecidella

varangrica (Th.Fr.) Zahlbr., Lithographa

varangrica Th.Fr., Placographa = Lithographa varangrica (Th.Fr.) Zahlbr.

varia (Pers.) Ertz & Tehler, Alyxoria

varia (Tul.) Jatta, Arthonia = Phacothecium varium (Tul.) Trevis.

varia (Hoffm.) Ach., Lecanora

varia Pers., Opegrapha = Alyxoria varia (Pers.) Ertz & Tehler

varia var. herbarum (Mont.), Opegrapha = Alyxoria culmigena (Libert) Ertz

varia f. xanthocarpa Zwackh, Opegrapha = Alyxoria varia (Pers.) Ertz & Tehler

varia Tul., Phacopsis = Phacothecium varium (Tul.) Trevis.

varia Coppins et al., Phaeopyxis = Bachmanniomyces varius (Coppins et al.) Diederich & Pino-Bodas

variabilis (Pers.) Müll.Arg., Caloplaca = Pyrenodesmia variabilis (Pers.) A.Massal.

variabilis subsp. diphyodes (Nyl.) Clauzade & Cl. Roux, Caloplaca = Caloplaca diphyodes (Nyl.) Jatta

variabilis (Pers.) A.Massal., Pyrenodesmia

varians (Davies) Nyl., Arthonia

varians subsp. elfvingii Räsänen, Celidium =
Arthonia subfuscicola (Linds.) Triebel

**varicellariae Heuchert & U.Braun,
Trimmatostroma**

variegatula H.Magn., Lecanora = Sagedia simoënsis
(Räsänen) A.Nordin et al.

variegatula Nyl., Lecidea

variolosa (A.Massal.) Gyeln., Peltigera = Peltigera
leucophlebia (Nyl.) Gyeln.

variolosa Motyka, Usnea = Usnea hirta (L.) Weber
ex F.H.Wigg.

varium (Tul.) Trevis., Phacothecium

**varius (Coppins et al.) Diederich & Pino-Bodas,
Bachmanniomyces**

wasmuthii Räsänen, Usnea

wasmuthii var. sphaeroides Räsänen, Usnea = Usnea
dasopoga (Ach.) Nyl.

wasseri S.Y.Kond., Lichenochora

weberi (Ach.) W. Mann, Dermatocarpon =
Dermatocarpon luridum (With.) J.R.Laundon

vegeta Vain., Bacidia = Toniniopsis separabilis
(Nyl.) Gerasimova & A.Beck

weillii Werner, Didymella = Lichenochora weillii
(Werner) Hafellner & R.Sant.

**weillii (Werner) Hafellner & R.Sant.,
Lichenochora**

velana (A.Massal.) Du Rietz, Caloplaca = Variospora
velana (A.Massal.) Arup et al.

velana (A.Massal.) Hue, Lecidea = Variospora
velana (A.Massal.) Arup et al.

velana (A.Massal.) Arup et al., Variospora

velata (Turner) Nyl., Pertusaria = Varicellaria velata
(Turner) I.Schmitt & Lumbsch

velata (Th.Fr.) Vain., Polyblastia

**velata (Turner) I.Schmitt & Lumbsch,
Varicellaria**

vellea (L.) Ach., Gyrophora = Umbilicaria vellea (L.)
Hoffm.

vellea (L.) Hoffm., Umbilicaria

vellea var. dendrophora Poelt, Umbilicaria =
Umbilicaria dendrophora (Poelt) Hestmark

velutina (Quél.) Redhead et al., Lichenomphalia

velutina (Quél.) Quél., Omphalina = Lichenomphalia
velutina (Quél.) Redhead et al.

velutina (Ach.) Flot., Thermutis

velutina (Bernh.) Ach., Verrucaria

velutinoides (Hellb.) Servit, Thelidium = Verrucaria
xyloxena Norman

velutinoides Hellb., Verrucaria = Verrucaria
xyloxena Norman

velutinum (Ach.) Nyl., Gonionema = Thermutis
velutina (Ach.) Flot.

velutinum auct., Thelidium = Verrucaria xyloxena
Norman

velutinum auct., Thelidium = Polyblastia bryophila
Lönnr.

velutinum auct., Thelidium = Thelidium zwackhii
(Hepp) A.Massal.

velutinum (Bernh.) Körb., Thelidium = Verrucaria
velutina (Bernh.) Ach.

welwitschii Mont. ex Tul., Abrothallus

venosa (L.) Ach., Peltidea = Peltigera venosa (L.)
Hoffm.

venosa (L.) Hoffm., Peltigera

ventosa P.M.Jørg. & R.Sant., Ionaspis

ventosa Vain., Lecidea = Miriquidica ventosa (Vain.)
Tindal

ventosa (Vain.) Tindal, Miriquidica

ventosa (L.) Norman, Ophioparma

ventosa (Lyngé) Sántha, Physcia = Physcia caesia
(Hoffm.) Fűrnr.

ventosa (Rostr.) Alstrup, Roselliniopsis

ventosa Rostr., Sphaeria = Roselliniopsis ventosa
(Rostr.) Alstrup

ventosicola Mudd., Microthelia = Muellerella
ventosicola (Mudd) D.Hawksw.

ventosicola (Mudd) D.Hawksw., Muellerella

ventosicola Zhurb., Polycoccum

ventosum (L.) A.Massal., Haematomma =
Ophioparma ventosa (L.) Norman

ventosum var. cuprigenum Poelt, Haematomma =
Ophioparma ventosa (L.) Norman

ventosum var. lapponicum (Räsänen) Lyngé,
Haematomma = Ophioparma lapponica (Räsänen)
Hafellner & R.W. Rogers

venusta (Körb.) Lettau, Buellia = Diplotomma
venustum Körb.

venustum Körb., Diplotomma

verecundula (Th.Fr.) H.Magn., Bacidia

vermicellifera (Kunze) J.R.Laundon, Opegrapha

vermicularis (Arnold) Keissl., Stegia = Thamnogalla
crombiei (Mudd) D.Hawksw.

vermicularis (Sw.) Schaer., Thamnolia

vermicularis (Sw.) Schaer. var. subuliformis (Ehrh.)
Schaer., Thamnolia = Thamnolia vermicularis (Sw.)
Schaer. subsp. vermicularis

**vermicularis (Sw.) Schaer. subsp. tundrae (Onut-
Brännström & Tibell) P.M.Jørg., Thamnolia**

**vermicularis (Sw.) Schaer. subsp. vermicularis,
Thamnolia**

vermicularium (Linds.) Vouaux, Discothecium =
Polycoccum vermicularium (Linds.) D.Hawksw.

vermicularium (Linds.) D.Hawksw., Polycoccum

vermicularius (Linds.) D.Hawksw., Endococcus =
Polycoccum vermicularium (Linds.) D.Hawksw.

vermiculata (Nyl.) Forssell, Psorotichia

vermifera (Nyl.) Th.Fr, Bacidia = Bibbya vermifera
(Nyl.) Kistenich et al.

vermifera subsp. haematomela (Nyl.) Th.Fr., Bacidia
= Bibbya vermifera (Nyl.) Kistenich et al.

vermifera (Nyl.) Kistenich et al., Bibbya

vermifera (Leight.) Keissl., Spilomela = Spirographa
fusisporella (Nyl.) Zahlbr.

vermlandica H.Magn., Lecidea

vermlandicum Räsänen, Rhizocarpon = Rhizocarpon
geographicum (L.) DC.

"vermlandicum" in Vězda, Rhizocarpon =
Rhizocarpon drepanodes Feuerer

vernalis (L.) Fr., Biatora

vernalis Schwein., Clavaria = Multiclavula vernalis
(Schwein.) R.H.Petersen

vernalis (Schwein.) Corner, Clavulinopsis =
Multiclavula vernalis (Schwein.) R.H.Petersen

vernalis (L.) Ach., Lecidea = Biatora vernalis (L.) Fr.

vernalis var. cupreiformis E.Nyl., Lecidea = Lecidea
berengeriana (A.Massal.) Th.Fr.

vernalis subsp. helvola (Körb. ex Hellb.) Th.Fr.,
Lecidea = Biatora helvola Körb. ex Hellb.

vernalis f. subduplex Nyl., Lecidea = Biatora
subduplex (Nyl.) Räsänen ex Printzen

vernalis (Schwein.) R.H.Petersen, Multiclavula

verniceum Graewe ex Th.Fr., Thelidium =
Polyblastia gothica Th.Fr.

veronensis A.Massal., Acarospora

verruca Poelt, Lecidea

verrucarioides H.Magn., Rinodina = Rinodina
occulta (Körb.) Sheard

verrucarioides Norman, Sphaeria = Sagediopsis
campsteriana (Linds.) D.Hawksw. & R.Sant.

verrucarioides (Nyl.) Timdal, Toninia = Toniniopsis
verrucarioides (Nyl.) Kistenich et al.

verrucarioides (Nyl.) Kistenich et al., Toniniopsis

verruciformis H.Magn., Acarospora = Myriospora
scabrida (Hedl. ex H.Magn.) K.Knudsen & L.
Arcadia

verrucigera Hue, Aspicilia

verrucigera (Hue) Zahlbr., Lecanora = Aspicilia
verrucigera Hue

verrucisporum Alstrup, Sclerococcum

verrucisporus Alstrup, Endococcus

verrucosa (Ach.) Norman, Amygdalaria =
Megasporea verrucosa (Ach.) Hafellner & V.Wirth

verrucosa (Ach.) Körb., *Aspicilia* = *Megaspora*
verrucosa (Ach.) Hafellner & V.Wirth

verrucosa (Ach.) Laurer, *Lecanora* = *Megaspora*
verrucosa (Ach.) Hafellner & V.Wirth

verrucosa Ach., *Lecanora*

verrucosa (Huds.) Hoffm., *Lobaria* = *Lobaria*
scrobiculata (Scop.) DC.

**verrucosa (Ach.) Hafellner & V.Wirth,
Megaspora**

verrucosa (Ach.) A.Massal., *Pachyospora* =
Megaspora verrucosa (Ach.) Hafellner & V.Wirth

verrucosa M.S.Christ. & D.Hawksw., Taeniolella

verrucosa (Vouaux) Petr. & Sydow, Vouauxiella
verrucosaria (Linds.) Arnold, Cercidospora

verrucosaria Linds., *Microthelia* = *Cercidospora*
verrucosaria (Linds.) Arnold

verrucosum Erichsen, *Cyphelium* = *Calicium*
trachylioides (Nyl. ex Branth & Rostr.) M.Prieto &
Wedin

verrucosus Hafellner, Endococcus

verrucula (Norman) Th.Fr., *Lecidea* = *Micarea*
turfosa (A.Massal.) Du Rietz

verrucula (Norman) Hedl., *Micarea* = *Micarea*
turfosa (A.Massal.) Du Rietz

verruculifera (Vain.) Zahlbr., *Caloplaca* =
Polycauliona verruculifera (Vain.) Arup et al.

verruculifera (Nyl.) Essl., *Neofuscelia* =
Xanthoparmelia verruculifera (Nyl.) O.Blanco et al.

verruculifera Nyl., *Parmelia* = *Xanthoparmelia*
verruculifera (Nyl.) O.Blanco et al.

verruculifera (Vain.) Arup et al., Polycauliona

**verruculifera (Nyl.) O.Blanco et al.,
Xanthoparmelia**

verruculiferum Vain., *Placodium* = *Polycauliona*
verruculifera (Vain.) Arup et al.

verruculosa auct., *Buellia* = *Buellia ocellata* (Flot.)
Körb.

verruculosa (Th.Fr.) Vain., *Toninia* = *Toninia*
squalida (Ach.) A.Massal.

versicolor Bagl. & Carestia, Acarospora

versicolor Hellb., *Biatorina* = *Catillaria lenticularis*
(Ach.) Th.Fr.

verticillata (Hoffm.) Schaer., Cladonia

verticillata var. *cervicornis* (Ach.) Flörke, *Cladonia* =
Cladonia cervicornis (Ach.) Flot.

verticillata var. *evoluta* (Th.Fr.) Stein, *Cladonia* =
Cladonia verticillata (Hoffm.) Schaer.

vesicularis (Hoffm.) Boistel, *Toninia* = *Thalloidima*
sedifolium (Scop.) Kistenich et al.

vespertilio (Lightf.) Hoffm., *Collema* = *Collema*
 nigrescens (Huds.) DC.

westringii (Ach.) Leight., *Pertusaria* = *Pertusaria*
pseudocorallina (Lilj.) Arnold

vestrogothica H.Magn., *Lecidea* = *Lecidea lapicida*
(Ach.) Ach. var. *lapicida*

vesuvianum Pers., Stereocaulon

veteranorum Coppins & Sérus., Biatora

vexillifera (Nyl.) Stizenb., *Alectoria* = *Alectoria*
sarmentosa (Ach.) Ach. subsp. *vexillifera* (Nyl.) D.
Hawksw.

vezdae Coppins & P.James, *Bacidia* = *Fellhaneropsis*
vezdae (Coppins & P.James) Sérus. & Coppins

vezdae (Coppins & P.James) V.Wirth, *Fellhanera* =
Fellhaneropsis vezdae (Coppins & P.James) Sérus. &
Coppins

**vezdae (Coppins & P.James) Sérus. & Coppins,
Fellhaneropsis**

vezdae Matzer, Stigmatidium

vezdana P.Scholz & Knoph, *Buellia* = *Diplotomma*
alboatrum (Hoffm.) Flot.

wheldonii (Travis) Savić & Tibell, Atla

wheldonii Travis, *Polyblastia* = *Atla wheldonii*
(Travis) Savić & Tibell

viarum (H.Magn.) Zahlbr., *Bacidia* = *Stereocaulon*
leucophaeopsis (Nyl.) P.James & Purvis

viarum H.Magn., *Bilimbia* = *Stereocaulon*
leucophaeopsis (Nyl.) P.James & Purvis

vicaria (Th.Fr.) Vain., Lecanora

vicinalis Arnold, Verrucaria

viduus Körb. ex Stein, Abrothallus = Sclerococcum lobariellum (Nyl.) Ertz & Diederich

wienkampii (J.Lahm ex Hazsl.) M.B.Aguirre, Cresporhaphis

wienkampii J.Lahm ex Hazsl., Leptorhaphis = Cresporhaphis wienkampii (J.Lahm ex Hazsl.) M.B. Aguirre

vilis Th.Fr., Buellia

willeyana R.C.Harris, Arthopyrenia = Anisomeridium polypori (Ellis & Everh.) M.E.Barr

wimmeriana (Körb.) Stein, Koerberiella**vinosa Leight., Arthonia****vinosa (Holien & Triebel) Diederich & Etayo, Llimoniella**

vinosa Holien & Triebel, Spirographa = Llimoniella
vinosa (Holien & Triebel) Diederich & Etayo

violacea (Arnold) Arnold, Bacidia = Bacidia laurocerasi (Delise ex Duby) Zahlbr.

violacea (Arnold) Arnold, Bacidia = Micarea peliocarpa (Anzi) Coppins & R.Sant.

violacea Arnold, Bilimbia = Micarea peliocarpa (Anzi) Coppins & R.Sant.

violacea P.Crouan & H.Crouan ex Nyl., Lecidea = Micarea peliocarpa (Anzi) Coppins & R.Sant.

violacea (Arnold) Hedl., Micarea = Micarea peliocarpa (Anzi) Coppins & R.Sant.

violaceofusca G.Thor & Muhr, Buellia = Lecanographa amylacea (Ehrh. ex Pers.) Egea & Torrente

violaceum Räsänen, Embolidium = Chaenothecopsis debilis (Sm.) Tibell

virella (Ach.) Flagey, Physcia = Phaeophyscia orbicularis (Neck.) Moberg

virens (With.) J.R.Laundon, Lobaria

virens Nyl., Verrucaria = Verrucaria glaucovirens Grummann

virescens (Mont.) Nyl., Heppia = Heppia adglutinata (Kremp.) A.Massal.

virescens auct., Peltigera = Peltigera degenii Gyeln.

virinea Hue, Aspicilia

virinea (Hue) Zahlbr., Lecanora = Aspicilia virinea Hue

virginis (Schaer.) Frey, Gyrophora = Umbilicaria virginis Schaer.

virginis (Schaer.) Schol., Omphalodiscus = Umbilicaria virginis Schaer.

virginis Schaer., Umbilicaria**viride Pers., Calicium**

viride (Ach.) Vain., Coriscium = Lichenomphalia hudsoniana (H.S.Jenn.) Redhead et al.

viride (Deakin) Zahlbr., Thelidium = Thelidium pyrenophorum (Ach.) Mudd

viridescens (Coppins) R.C.Harris, Anisomeridium

viridescens (A.Massal) Th.Fr., Bacidia = Toniniopsis bagliettoana (A.Massal. & De Not.) Kistenich & Timdal

viridescens auct., Bacidia = Bacidina indigens (Vain.) S.Ekman & J.Gerasimova

viridescens sensu Vain., Nadv., Cyphelium = Calicium tigillare (Ach.) Pers.

viridescens Coppins & P.James, Halecania

viridescens (Schrad.) Ach., Lecidea = Trapeliopsis viridescens (Schrad.) Coppins & P.James

viridescens Lilj., Lichen = Calicium notarisii (Tul.) M.Prieto & Wedin

viridescens (Schrad.) Brodo, Micarea = Trapeliopsis viridescens (Schrad.) Coppins & P.James

viridescens (A.Massal.) Müll.Arg., Patellaria = Toniniopsis bagliettoana (A.Massal. & De Not.) Kistenich & Timdal

viridescens A.Massal., Raphiospora = Toniniopsis bagliettoana (A.Massal. & De Not.) Kistenich & Timdal

viridescens (A.Massal.) A.Massal., Scoliciosporum = Toniniopsis bagliettoana (A.Massal. & De Not.) Kistenich & Timdal

viridescens (Schrad.) Coppins & P.James, Trapeliopsis

**viridialba (Kremp.) A.F.W.Schmidt,
Chaenothecopsis**

viridialbum Kremp., Calicium = Chaenothecopsis
viridialba (Kremp.) A.F.W.Schmidt

viridiatra (Stenh.) Nyl., Lecanora

viridiatra (Stenh.) Schaer, Lecidea = Lecanora
viridiatra (Stenh.) Nyl.

viridiatra Coppins, Micarea

viridiatrum (Wulfen) Körb., Rhizocarpon

viridicans Nyl., Lecanora

**viridifarinosa (Coppins & P.James) Aptroot,
Aquacidia**

viridifarinosa Coppins & P.James, Bacidia =
Aquacidia viridifarinosa (Coppins & P.James)
Aptroot

viridileprosa Coppins & van den Boom, Micarea

viridireagens Nád., Calicium = Chaenothecopsis
viridireagens (Nád.) A.F.W.Schmidt

**viridireagens (Nád.) A.F.W.Schmidt,
Chaenothecopsis**

viridirufa auct., Caloplaca = Caloplaca aractina (Fr.)
Häyren

viridis Tønsberg, Fuscidea = Ropalospora viridis
(Tønsberg) Tønsberg

viridis (Ach.) Nyl., Normandina = Lichenomphalia
hudsoniana (H.S.Jenn.) Redhead et al.

viridis (Ach.) Behlen & Desberger, Opegrapha =
Zwackhia viridis (Ach.) Poetsch & Schied.

viridis (Tønsberg) Tønsberg, Ropalospora

viridis Zschacke, Staurothele = Staurothele fissa
(Taylor) Zwackh

viridis (Ach.) Poetsch & Schied., Zwackhia

viridisorediata Aptroot et al., Fellhanera

viridissima A.Nordin et al., Lecanora

viridula (Schr.) Ach., Verrucaria

viridula f. tectorum (A.Massal.) J.R.Laundon,
Verrucaria = Verrucaria tectorum (A.Massal.) Körb.

viridulum (Ach.) Fr., Calicium = Microcalicium
disseminatum (Ach.) Vain.

wirthii Diederich, Tremella

vitellina (Hoffm.) Müll.Arg., Candelariella

vitellinaria (Nyl.) Hertel, Carbonea

vitellinaria Nyl., Lecidea = Carbonea vitellinaria
(Nyl.) Hertel

vitellinaria (Nyl.) Rehm, Nesolechia = Carbonea
vitellinaria (Nyl.) Hertel

vitellinaria var. supersparsa (Nyl.) Keissl.,
Nesolechia = Carbonea supersparsa (Nyl.) Hertel

vitellinula (Nyl.) Arup et al., Athallia

vitellinula (Nyl.) H.Olivier, Caloplaca = Athallia
vitellinula (Nyl.) Arup et al.

vitikainenii Pykälä & Myllys, Atla

vitikainenii Pykälä, Launis & Myllys, Verrucaria

vitiligo (Ach.) J.R.Laundon, Xylographa

vittata (Ach.) Parrique, Hypogymnia

vittata (Ach.) Nyl., Parmelia = Hypogymnia vittata
(Ach.) Parrique

vogesica auct., Lecidea = Lecidea swartzioidea Nyl.

wolfiana Müll.Arg., Lecidea

vorax Poelt & Hafellner, Rhizocarpon

vorticosa (Flörke) Hertel, Carbonea

vorticosa (Flörke) Körb., Lecidea = Carbonea
vorticosa (Flörke) Hertel

**vouauxii (B.de Lesd.) M.Brand & Diederich,
Agonimia**

vouauxii (Hue) R.C.Harris, Lepraria

vouauxii (Hue) J.R.Laundon, Lepraria = Lepraria
vouauxii (Hue) R.C.Harris

vrangiana Gyeln., Alectoria = Bryoria vrangiana
(Gyeln.) Brodo & D.Hawksw.

vrangiana (Gyeln.) Brodo & D.Hawksw., Bryoria

vrangianum Gyeln., Placynthium = Placynthium
asperellum (Ach.) Trevis.

vrangii Malme, Lecanora

vrangii Malme, Lecidea = Lecanora vrangii Malme

wulfeniana Grumann, Lecidea = Lecidella wulfenii
(Hepp) Körb.

wulfenii (Hepp) Arnold, Lecidea = Lecidella
wulfenii (Hepp) Körb.

wulfenii (Hepp) Körb., Lecidella

wulfenii DC., Pertusaria = Pertusaria hymenea
(Ach.) Schaer.

wulfenii var. variolosa Fr., Pertusaria = Pertusaria
flavida (DC.) J.R.Laundon

wulffianum Räsänen, Rhizocarpon = Rhizocarpon
intermediellum Räsänen

vulgaris Bréb. p. p., Botrydina = Lichenomphalia
alpina (Britzelm.) Redhead et al.

vulgaris Bréb. p.p., Botrydina = Lichenomphalia
umbellifera (L.:Fr.) Redhead et al.

vulgata Zahlbr., Lecidea = Lecidella stigmataea
(Ach.) Hertel & Leuckert

vulgata var. pilularis (Th.Fr.) H.Magn., Lecidea =
Lecidella stigmataea (Ach.) Hertel & Leuckert

vulgata (Ach.) Ach., Opegrapha

vulgata var. subsiderella Nyl., Opegrapha =
Opegrapha niveoatra (Borrer) J.R.Laundon

wulingensis L.F.Han & S.Y.Guo, Peltigera

vulpina (L.) Ach., Evernia = Letharia vulpina (L.)
Hue

vulpina (L.) Hue, Letharia

vulpina Tul., Phacopsis

vulpinaris Nyl., Lecidea = Micarea vulpinaris (Nyl.)
Muhr

vulpinaris (Nyl.) Muhr, Micarea

vulturiensis A.Massal., Solenopsora

xanthocarpa Zwackh ex Nyl., Opegrapha = Alyxoria
varia (Pers.) Ertz & Tehler

xanthococca (Sommerf.) P.James & Gotth. Schneid.,
Hypocenyce = Pycnora xanthococca (Sommerf.)
Hafellner

xanthococca Sommerf., Lecidea = Pycnora
xanthococca (Sommerf.) Hafellner

xanthococca subsp. sorophora Vain., Lecidea =
Pycnora sorophora (Vain.) Hafellner

xanthococca (Sommerf.) Hafellner, Pycnora

xantholyta (Nyl.) Jatta, Caloplaca = Leproplaca
xantholyta (Nyl.) Hue

xantholyta (Nyl.) Hue, Leproplaca

xanthonica Coppins & Tønberg, Micarea

xanthoriae (Wedd.) Keissl., Apiosporella =
Cercidospora xanthoriae (Wedd) R.Sant.

xanthoriae (Wedd) R.Sant., Cercidospora

xanthoriae Keissl., Libertiella = Xanthomendoza
fulva (Hoffm.) Søchting et al.

xanthoriae M.S.Christ., Lichenonium

xanthoriae (Wedd.) Sacc. & D.Sacc., Physalospora =
Cercidospora xanthoriae (Wedd) R.Sant.

xanthoriae Lowen & Diederich, Pronectria

xanthoriae Wedd., Sphaeria = Cercidospora
xanthoriae (Wedd) R.Sant.

xanthoriicola Räsänen, Mycobilimbia =
Phacothecium varium (Tul.) Trevis.

xanthostigma (Ach.) Lettau, Candelariella

xanthostigma var. lutella Vain., Candelariella =
Candelariella lutella (Vain.) Räsänen

xanthostigmoidea (Räsänen) Zahlbr., Caloplaca =
Gyalolechia xanthostigmoidea (Räsänen) Søchting
et al.

**xanthostigmoidea (Räsänen) Søchting et al.,
Gyalolechia**

xanthostoma Wedd ex Cl.Roux, Lecanora =
Myriolecis semipallida (H.Magn.) Śliwa et al.

xanthostoma Cl.Roux ex Fröberg, Lecanora =
Myriolecis semipallida (H.Magn.) Śliwa et al.

**xanthostoma (Sommerf.) K.Schmitz & Lumbsch,
Ochrolechia**

xanthostoma (Sommerf.) Fr., Pertusaria =
Ochrolechia xanthostoma (Sommerf.) K.Schmitz &
Lumbsch

**xenophana (Körb.) Triebel & Rambold,
Cecidonia**

xenophana (Körb.) Vouaux, Nesolechia = Cecidonia
xenophana (Körb.) Triebel & Rambold

xylina H.Mayrhofer & Poelt, Protothelenella

xyloderma Norman, Thelidium

xylographioides Norman, Leptorhaphis =
Leptorhaphis parameca (A.Massal.) KÖrb.

xylographiza Nyl., Opegrapha = Opegrapha
subparallela Müll.Arg.

xylographoides Nyl., Ptychographa

xylonellum Ach., Calicium = Calicium salicinum
Pers.

xylophila Th.Fr. in H.G.Falk, Lecidea = Lecidella
xylophila (Th.Fr.) Knoph & Leuckert

xylophila (Th.Fr.) Knoph & Leuckert, Lecidella

xylospilum (Nyl.) Zschacke, Thelidium = Thelidium
zwackhii (Hepp) A.Massal.

xyloxena Nädv., Chaenotheca

xyloxena H.Magn., Lecanora = Sagedia zonata Ach.

xyloxena (Norman) Norman, Thelidium = Verrucaria

xyloxena Norman

xyloxena Norman, Verrucaria

ypocrita A.Massal., Lecidea = Farnoldia hypocrita
(A.Massal.) Fröberg

zabotica (KÖrb.) Räsänen, Buellia = Diplotomma
pharcidium (Ach.) Choisy

zahlbruckneri (Lynge) Creveld, Aspicilia = Aspilidea
myrinii (Fr.) Hafellner

zahlbruckneri J.Steiner, Buellia = Buellia erubescens
Arnold

zahlbruckneri Lynge, Lecanora = Aspilidea myrinii
(Fr.) Hafellner

zebrina Rikkinen & Tuovila, Chaenothecopsis

zeoroides (Anzi) Knoph & Hertel, Porpidia

zonata (Ach.) R.Sant., Aspicilia = Sagedia zonata
Ach.

**zonata (KÖrb.) Källsten ex Torrente & Egea,
Enterographa**

zonata (Ach.) H.Magn., Lecanora = Sagedia zonata
Ach.

zonata Brodo, Lepraria = Lepraria caesioalba (B.de
Lesd.) J.R.Laundon

zonata KÖrb., Opegrapha = Enterographa zonata
(KÖrb.) Källsten ex Torrente & Egea

zonata Ach., Sagedia

zopfii Asahina, Alectoria = Bryoria implexa
(Hoffm.) Brodo & D.Hawksw.

zopfii Vain., Cladonia

zosteræ (Ach.) Nyl., Lecanora = Myriolecis zosteræ
(Ach.) Śliwa et al.

zosteræ var. palanderi (Vain.) Śliwa, Lecanora =
Myriolecis zosteræ (Ach.) Śliwa et al. var. palanderi
(Vain.) Śliwa

zosteræ (Ach.) Śliwa et al., Myriolecis

**zosteræ (Ach.) Śliwa et al. var. palanderi (Vain.)
Śliwa, Myriolecis**

**zosteræ (Ach.) Śliwa et al. var. zosteræ,
Myriolecis**

zschackeana Erichsen, Verrucaria = Hydropunctaria
maura (Wahlenb.) C.Keller et al.

zwackhii Sandst., Arthonia = Reichlingia zwackhii
(Sandst.) Frisch & G.Thor

zwackhii (Zwackh) Arnold, Dactylospora =
Phacographa zwackhii (A.Massal ex Zwackh)
Hafellner

zwackhii A.Massal. ex Zwackh, Lecio-grapha =
Phacographa zwackhii (A.Massal ex Zwackh)
Hafellner

zwackhii (A.Massal. ex Zwackh) Källsten,
Opegrapha = Phacographa zwackhii (A.Massal ex
Zwackh) Hafellner

**zwackhii (A.Massal ex Zwackh) Hafellner,
Phacographa**

zwackhii (Sandst.) Frisch & G.Thor, Reichlingia

zwackhii (Hepp) A.Massal., Thelidium

References

- Aamlid, D. 1983. Epilittiske og epifyttiske lav som forurensningsfaktorer i Svelgen-området, Sogn og Fjordane (Norge). Bergen.
- Acharius, E. 1814. Synopsis Methodica Lichenum. Lundae.
- Adler, M.T. & Ahti, T. 1996. The distinction of *Punctelia perreticulata* and *Punctelia subrudecta* (Parmeliaceae). *Lichenologist* 28: 431-436.
- Aguirre-Hudson, B. 1991. A taxonomic study of the species referred to the ascomycete genus *Leptorhaphis*. *Bull. Br. Mus. nat. Hist. (Bot.)* 21: 85-192.
- Ahlner, S. 1940. *Alectoria altaica* (Gyel.) Räs. und ihre verbreitung in Fennoskandia. *Acta Phytogeogr. Suecica* 13: 27-38.
- Ahlner, S. 1943. Några lavar från Härnön i Ångermanland. *Bot. Notiser* 1943: 155-159.
- Ahlner, S. 1944. Lavar från Långans övre vattenområde i västra Jämtland. *K. Svenska Vetensk.-Akad. Skr. Natusskyddsärenden* 44: 1-84.
- Ahlner, S. 1946. Gästriklands flora. Gästrikland, Hembygdskbok: 235-243.
- Ahlner, S. 1948. Utbredningstyper bland Nordiska barrträdlavar. *Acta Phytogeogr. Suecica* 22: 1-257.
- Ahlner, S. 1949. Contributions to the Lichen Flora of Norway. *Solorina asteriscus* Anzi new to Scandinavia. *Svensk Bot. Tidskr.* 43: 157-162.
- Ahlner, S. 1953. Om Ångermanlands lavflora. *Natur i Ångermanland och Medelpad*: 191-196.
- Ahti, T. & Hawksworth, D.L. 2005. *Xanthoparmelia stenophylla*, the correct name for *X. somloënsis*, one of the most widespread usnic acid containing species of the genus. *Lichenologist* 37: 363-366.
- Ahti, T. & Henssen, A. 1965. New localities for *Cavernularia hultenii* in Eastern and Western North America. *Bryologist* 68: 85-89.
- Ahti, T. & Hyvönen, S. 1985. *Cladina stygia*, a common, overlooked species of reindeer lichen. *Ann. Bot. Fennici* 22: 223-229.
- Ahti, T. & Jørgensen, P.M. 1971. Notes on the Lichens of Newfoundland. I. *Erioderma boreale*, New to North America. *Bryologist* 74: 378-381.
- Ahti, T. & Stenroos, S. 2013. Cladoniaceae. In: T. Ahti, S. Stenroos & R. Moberg (eds), *Nordic Lichen Flora* 5: 7-91.
- Ahti, T. & Thell, A. 2011a. *Pseudevernia*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 101-102.
- Ahti, T. & Thell, A. 2011b. *Tuckermannopsis*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 105-106, 140.
- Ahti, T. & Vitikainen, O. 1974. *Bacidia chlorococca*, a common toxitolerant lichen in Finland. *Mem. Soc. Fauna Fl. Fenn.* 49: 95-100.
- Ahti, T. 1961. Taxonomic studies on reindeer lichens (*Cladonia* subgen. *Cladina*). *Ann. Bot. Soc. Zool.-Bot. Fenn. Vanamo* 32(1): 1-160.
- Ahti, T. 1962a. Notes on the lichen *Cladonia pseudorangiformis* Asah. *Arch. Soc. Zool. Bot. Fenn. 'Vanamo'* 17: 38-41.
- Ahti, T. 1962b. Porjonjäkälien taksonomiasta. *Luonnon Tutkija* 66: 33-40.
- Ahti, T. 1965. Notes on the distribution of *Lecanora conizaeoides*. *Lichenologist* 3: 91-92.
- Ahti, T. 1966. *Parmelia olivacea* and the allied non-isidiate and non-sorediate corticolous lichens in the Northern Hemisphere. *Acta Bot. Fenn.* 70: 1-68.
- Ahti, T. 1967. Nomenclatural notes on *Cladonia delessertii* and *Cladonia alpicola*. *Bryologist* 70: 104-105.

- Ahti, T. 1973a. Taxonomic notes on some species of *Cladonia*, subsect. *Unciales*. *Ann. Bot. Fennici* 10: 163-184.
- Ahti, T. 1973b. Notes on the lichens of Newfoundland. 2 *Thelocarpon epibolum* Nyl. *Ann. Bot. Fennici* 10: 66-67.
- Ahti, T. 1978. Nomenclatural and taxonomic remarks on European species of *Cladonia*. *Ann. Bot. Fennici* 15: 7-14.
- Ahti, T. 1980a. Nomenclatural notes on *Cladonia* species. *Lichenologist* 12: 125-133.
- Ahti, T. 1980b. Taxonomic revision of *Cladonia gracilis* and its allies. *Ann. Bot. Fennici* 17: 195-243.
- Ahti, T. 1984. The status of *Cladina* as a genus segregated from *Cladonia*. *Beih. Nova Hedwigia* 79: 25-61.
- Ahti, T. 1998. A revision of *Cladonia stricta*. *Folia Cryptog. Estonica* 32: 5-8.
- Ahti, T., Scotter, G.W. & Vänskä, H. 1973. Lichens of the Reindeer Preserve, Northwest Territories, Canada. *Bryologist* 76: 48-76.
- Ahti, T., Brodo, I.M. & Noble, W.J. 1987. Contributions to the lichen flora of British Columbia, Canada. *Mycotaxon* 028: 91-97.
- Ahti, T., Jørgensen, P.M., Kristinsson, H., Moberg, R., Søchting, U. & Thor, G. (eds) 2002. Nordic lichen flora vol. 2. *Physciaceae*. Uddevalla, 115 pp.
- Ahti, T., Moberg, R. & Thell, A. 2011. *Parmeliopsis*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 92-94, 140.
- Ahti, T., Jørgensen, P.M., Kristinsson, H., Moberg, R., Søchting, U. & Thor, G. (eds) 2012. Nordic lichen flora vol. 3, *Cyanolichens*. 2nd ed. Göteborg, 223 pp.
- Ahti, T., Kondratyuk, S.Y., Kärnefelt, I., Thell 2015. Nomenclatural corrections and notes on some taxa in the *Teloschistaceae* (lichenized ascomycetes). *Graphis Scripta* 27: 37-41.
- Albertson, N. 1941. Bidrag till Falbygden moss-och lavflora. *Svensk Bot. Tidskr.* 35: 113-132.
- Albertson, N. 1946. *Österplana* Hed. *Acta Phytogeogr. Suecica* 20: 1-267.
- Albertson, N. 1950. *Heppia lutos* (Ach.) Nyl. i Öländsk Alvarvegetation. *Svensk Bot. Tidskr.* 44: 113-124.
- Almborn, O. 1942. Lichenological Notes. II. *Bot. Notiser* 1942: 387-403.
- Almborn, O. 1948. Distribution and ecology of some south Scandinavian lichens. *Bot. Notiser Suppl.* 1(2): 1-252.
- Almborn, O. 1955a. Contributions to a monograph of the lichen genus *Pertusaria*. I. *Svensk Bot. Tidskr.* 49: 181-190.
- Almborn, O. 1955b. Lavvegetation och lavflora på Hallands Väderö. *K. Svenska Vetensk.-Akad. Skr. Natusskyddsärenden* 11: 1-92.
- Almborn, O. 1966. Revision of Some Lichen Genera in Southern Africa I. *Bot. Notiser* 119: 70-112.
- Almquist, S. 1874. Berättelse om en resa i Ångermanland, Medelpad och Jämtland sommaren 1873. *Kongl. Vet.-Akad. Förhandl.* 3: 75-93.
- Almquist, S. 1880. *Monographia Arthoniarum Scandinaviae*. *K. Svenska Vetensk.-Akad. Handl.* 17 (6): 1-69.
- Alstrup, V. & Ahti, T. 2007. New reports of lichenicolous fungi, mainly from Finland and Russia. *Karstenia* 47: 1-4.
- Alstrup, V. & Hawksworth, D.L. 1990. The lichenicolous fungi of Greenland. *Meddelelser om Grönland, Bioscience* 31: 1-90.
- Alstrup, V. & Søchting, U. 1986. Lichens from East Finnmark. *Graphis Scripta* 1: 11-13.
- Alstrup, V. 1979. Notes on selected Greenlandic Lichens. *Bot. Tidsskr.* 74: 155-163.

- Alstrup, V. 1981. Notes on some lichens and lichenicolous fungi from Greenland. *Nord. J. Bot.* 1: 120-124.
- Alstrup, V. 1984. A comparative study of *Acarospora isotoqensis* and *A. undata*. *Lichenologist* 16: 205-206.
- Alstrup, V. 1986a. Contribution to the lichen flora of Greenland. *Int. J. Mycol. Lichenol.* 3: 1-16.
- Alstrup, V. 1986b. Lichens from Björkliden, northern Sweden. *Graphis Scripta* 1: 3-6.
- Alstrup, V. 1991. Lichens and lichenicolous fungi from the Torneträsk area. *Graphis Scripta* 3: 54-67.
- Alstrup, V. 1993. News on lichens and lichenicolous fungi from the Nordic countries. *Graphis Scripta* 5: 96-104.
- Alstrup, V. 1994. A lichen excursion to Bornholm 1993. *Graphis Scripta* 6: 49-55.
- Alstrup, V. 1997. New lichenicolous fungi found on the NLF meeting in Norway 1993. *Graphis Scripta* 8: 25-29.
- Alstrup, V. 2004. New records in distribution of lichens and lichenicolous fungi. *Graphis Scripta* 16: 46-57.
- Alstrup, V. 2014. Additions to the lichens and lichenicolous fungi of the Syktyvkar area, Komi Republic, Russia. *Graphis Scripta* 26: 40-41.
- Alstrup, V., Christensen, S.N., Hansen, E.S. & Svane, S. 1994. The lichens of the Faroes. *Fróðskaparrit (Ann. Soc. Sci. Faeroensis)* 40: 61-121.
- Alstrup, V., Grube, M., Motiejūnaitė, J., Nordin, A. & Zhurbenko, M. 2008. Lichenicolous fungi from the Skibotn area, Troms, Norway. *Graphis Scripta* 20: 1-8.
- Ammann, K. & Ammann, B. 1969. Die fennoskandische Verbreitung von *Pilophorus* (Tuck.) Th.Fr., *Stereocaulaceae*. *Herzogia* 1: 87-94.
- Anderson, R.A. & Carmer, M.-B. 1974. Additions to the lichen flora of Colorado. *Bryologist* 77: 216-223.
- Anderson, R.A. 1962. The lichen flora of the Dakota sandstone in North-Central Colorado. *Bryologist* 65: 242-261.
- Andersson, L. & Appelqvist, T. 1982. Brunbräken, *Asplenium adulterinum*, funnen i norra Västergötland. *Svensk Bot. Tidskr.* 76: 308-310.
- Andersson, L. & Appelqvist, T. 1987. Lunglav och almlav, indikatorer på värdefull lövskog. *Svensk Bot. Tidskr.* 81: 185-194.
- Andersson, L. 1992. *Micarea nigella* new to Sweden. *Graphis Scripta* 4: 73-74.
- Andersson, L., Olsson, O. & Owe-Larsson, B. 1986. Averbåfjället. Inventering av ett naturskogsområde i norra Värmland 1984. Länsstyrelsen i Värmland, Rapport 1984:3, 85 pp.
- Andreev, M.P. 2003. *Lecanoraceae*. Handbook of the lichens of Russia 8: 111-184, 259.
- Andreev, M.P. 2004. Notes on the lichen genus *Miriquidica* in Russia. *Biblioth. Lichenol.* 88: 15-42.
- Aptroot, A. & Lücking, R. 2003. Phenotype-based phylogenetic analysis does not support generic separation of *Gyalidea* and *Solorinella*. *Biblioth. Lichenol.* 86: 53-78.
- Aptroot, A. & van Herk, C.M. 1999. *Bacidia neosquamulosa*, a new and rapidly spreading corticolous lichen species from western Europe. *Lichenologist* 31: 121-127.
- Aptroot, A. & van Herk, C.M. 2007. *Lecidea grisella* sympatric with *Lecidea fuscoatra*, differing in its rimose instead of areolate thallus. *Lichenologist* 39: 293-296.
- Aptroot, A. 1991a. A monograph of the *Pyrenulaceae* (excluding *Anthracothecium* and *Pyrenula*) and *Requienellaceae*, with notes on the *Pleomassariaceae*, the *Trypeteliaceae* and *Mycomicrothelia*. *Biblioth. Lichenol.* 44: 1-178.
- Aptroot, A. 1991b. A conspectus of *Normandina*. *Willdenowia* 21: 263-267.

- Aptroot, A. 1998. Aspects of the integration of the taxonomy of lichenized and non-lichenized pyrenocarpous Ascomycetes. *Lichenologist* 30: 501-514.
- Aptroot, A., Diederich, P., Sérusiaux, E. & Sipman, H.J.M. 1997a. Lichens and lichenicolous fungi from New Guinea. *Biblioth. Lichenol.* 64: 1-220.
- Aptroot, A., Diederich, P., van Herk, C.M., Spier, L. & Wirth, V. 1997b. *Protoparmelia hypotremella*, a new sterile corticolous species from Europe and its lichenicolous fungi. *Lichenologist* 29: 415-424.
- Arcadia, L. & Knudsen, K. 2012. The name *Myriospora* is available for the *Acarospora smaragdula* group. *Opuscula Philolichenum* 11: 19-25.
- Areskoug, V. & Thor, G. 2005. Distribution, status and ecology of the lichen *Cyphelium notarisii* in Sweden. *Ann. Bot. Fennici* 42: 317-326.
- Ariyawansa, H.A. et al. 2015. Fungal diversity notes 111-252 - taxonomic and phylogenetic contributions to fungal taxa. *Fungal Diversity* 75: 27-274.
- Arnold, F. 1864. Die Lichenen des fränkischen Jura. *Flora* 47: 593-599.
- Arnold, F. 1874. Lichenologische Fragmente 16. *Flora* 57: 137-144.
- Arroyo, R., Serina, E. & Manrique, E. 1995. *Ramalina elegans* (Lichenes, Ramalinaceae) a taxon which has been mistaken for *Ramalina calicaris* and *R. fastigiata* in the Iberian Peninsula. *Crypt. Bot.* 5: 22-27.
- Articus, K. 2000. Artbestämning av långa hängande skägglavar (släktet *Usnea*) i Sverige. *Svensk Bot. Tidskr.* 94: 81-100.
- Articus, K., Mattsson, J.-E., Tibell, L., Grube, M. & Wedin, M. 2002. Ribosomal DNA and b-tubulin data do not support the separation of the lichens *Usnea florida* and *U. subfloridana* as distinct species. *Mycol. Res.* 106: 412-418.
- Arup, U. & Ekman, S. 1989. Notes on the lichen flora of southern Sweden. *Graphis Scripta* 2: 104-106.
- Arup, U. & Ekman, S. 1991a. *Caloplaca ulcerosa* new to Sweden. *Graphis Scripta* 3: 46-48.
- Arup, U. & Ekman, S. 1991b. Lavfloran på Hallands Väderö. *Svensk Bot. Tidskr.* 85: 263-308.
- Arup, U. & Ekman, S. 1992. Nyheter i södra Sveriges lavflora. *Graphis Scripta* 4: 81-86.
- Arup, U. & Ekman, S. 1994. Tre lavar i släktet *Fellhanera* på blåbär. *Svensk Bot. Tidskr.* 88: 33-41.
- Arup, U. & Grube, M. 1999. Where does *Lecanora demissa* (Lecanorales) belong? *Lichenologist* 31: 419-430.
- Arup, U. & Hemberg, J. 2010. *Skorpdagglaven Diploicia canescens* på frammarsch. *Lavbulletinen* 2010(3): 157-162.
- Arup, U. & Sandler Berlin, E. 2011. A taxonomic study of *Melanelixia fuliginosa* in Europe. *Lichenologist* 43: 89-97.
- Arup, U. & Westberg, M. 2005. *Candelariella medians* new to Sweden. *Graphis Scripta* 17: 1-2.
- Arup, U. & Åkelius, E. 2009. A taxonomic revision of *Caloplaca herbidella* and *C. furfuracea*. *Lichenologist* 41: 465-480.
- Arup, U. 1990. *Caloplaca glomerata*, a new calcicolous lichen species from Sweden. *Ann. Bot. Fennici* 27: 329-333.
- Arup, U. 1999. *Cyphelium trachylioides* found on a new locality in southern Sweden. *Graphis Scripta* 11: 29-31.
- Arup, U. 2002. *Bacidia neosquamulosa* ny för Sverige. *Lavbulletinen* 2002(2): 9.
- Arup, U. 2004a. Three overlooked *Lecidea* species in Sweden. *Symb. Bot. Upsal.* 34(1): 39-48.
- Arup, U. 2004b. Härjedalslav, *Caloplaca proteus* - en enstöring. *Lavbulletinen* 2004(1): 18.

- Arup, U. 2006a. A new taxonomy of the *Caloplaca citrina* group in the Nordic countries, except Iceland. *Lichenologist* 38: 1-20.
- Arup, U. 2006b. The identity of *Caloplaca havaasii*. *Graphis Scripta* 18: 33-37.
- Arup, U. 2006c. Mark- och stenlevande lavar i naturskyddade områden i Hallands län. Länsstyrelsen i Hallands län, Medd. 2006:5.
- Arup, U. 2006d. En ny uppdelning av *Caloplaca citrina* gruppen. *Lavbulletinen* 2006(2): 62-71.
- Arup, U. 2008. *Caloplaca fuscorufa* - en missförstådd art. *Lavbulletinen* 2008(2): 65-68.
- Arup, U. 2009a. The *Caloplaca holocarpa* group in the Nordic countries, except Iceland. *Lichenologist* 41: 111-130.
- Arup, U. 2009b. SLF:s lavexkursion till Skåne 9-10 maj 2009. *Lavbulletinen* 2009(2): 48-54.
- Arup, U. 2011a. Contribution to the knowledge of *Caloplaca* in the Nordic countries. *Graphis Scripta* 23: 10-20.
- Arup, U. 2011b. *Psoroma paleaceum* - en ny gammal art för Sverige. *Lavbulletinen* 2011(1): 21-23.
- Arup, U. 2013. Grå och sydlig ladlav - nya fynd i Skåne. *Lavbulletinen* 2013(1): 20-23.
- Arup, U. 2015. Röan - en skånsk hotspot för stenlavar. *Lavbulletinen* 2014(2): 50-55.
- Arup, U. 2016. *Lecidea variegatula* - ny för Norden. *Lavbulletinen* 2015(2): 50-51.
- Arup, U. 2018. British Lichen Society på Öland. *Lavbulletinen* 2018(1): 6-15.
- Arup, U., Ekman, S., Kärnefelt, I. & Mattsson, J.-E. 1997. Skyddsvärda lavar i sydvästra Sverige. SBF-förlaget, 276 pp.
- Arup, U., Arneng, E. & Søchting, U. 2007. *Caloplaca fuscorufa* - a misunderstood species in northern Europe. *Lichenologist* 39: 409-414.
- Arup, U., Fröberg, L. & Pettersson, L.-Å. 2011. *Placidium umbrinum* - a pyrenocarpous species new to northern Europe. *Graphis Scripta* 23: 42-46.
- Arup, U., Søchting, U. & Frödén, P. 2013. A new taxonomy of the family Teloschistaceae. *Nord. J. Bot.* 31: 16-83.
- Arup, U., Hagström, M. & Henriksson, J. 2014a. *Belonia nidarosensis* funnen i Sverige. *Lavbulletinen* 2013(2): 44-48.
- Arup, U., Klepsland, J.T. & Pykälä, J. 2014b. Species of *Caloplaca* s.lat. new to Norway, Sweden or Finland. *Graphis Scripta* 26: 46-48.
- Arup, U., Vondrák, J. & Halici, M.G. 2015. *Parvoplaca nigroblastidiata*, a new corticolous lichen (Teloschistaceae) in Europe, Turkey and Alaska. *Lichenologist* 47: 379-385.
- Arup, U., Blom, H.H. & Lindblom, L. 2021. The Gaupne area in Sogn og Fjordane - a hot spot for lichens in Norway *Graphis Scripta* 33: 31-49.
- Arvidsson, L. & Hultengren, S. 2005. Atlantisk vårtlav *Pyrenula occidentalis* i Sverige. *Svensk Bot. Tidskr.* 99: 226-232.
- Arvidsson, L. & Martinsson, P.-O. 1993. Notes on the variation of *Caloplaca obscurella*. *Graphis Scripta* 5: 65-68.
- Arvidsson, T. 1936. Nya svenska lokaler för *Siphula ceratites* (Wg.) Fr. *Svensk Bot. Tidskr.* 30: 214-215.
- Arvidsson, L. 1979a. *Lichinodium sirosiphoideum* found with apothecia. *Lichenologist* 11: 187-190.
- Arvidsson, L. 1979b. Svampangrepp på lavar - en orsak till lavöken. *Svensk Bot. Tidskr.* 72: 285-292.
- Arvidsson, L. 1985. A very special growth. *Acid Magazine* 1985 (3): 27-28.
- Arvidsson, L. 1986. On some interesting lichens from Norway. *Windahlia* 16: 149-151.
- Arvidsson, L. 1989. *Parmelia submontana* - en för Skandinavien ny lav. *Svensk Bot. Tidskr.* 83: 156-160.

- Arvidsson, L., Lindström, M., Muhr, L.-E., Ståhl, B. & Wall, S. 1988. Lavfloran i Näverkärsskogen i Bohuslän. *Svensk Bot. Tidskr.* 82: 167-192.
- Arvidsson, L., Hultengren, S. & Larsson, U. 2012. Mångfruktig silverlav *Parmelia quercina* -. *Svensk Bot. Tidskr.* 106: 214-216.
- Atienza, V. & Hawksworth, D.L. 2008. *Lichenothelia renobalesiana* sp. nov. (Lichenotheliaceae), for a lichenicolous ascomycete confused with *Polycoccum opulentum* (Dacampiaceae). *Lichenologist* 40: 87-96.
- Bailey, R.H. & James, P.W. 1977. Distribution maps of lichens in Britain. *Lichenologist* 9: 175-187.
- Baloch, E., Gilenstam, G. & Wedin, M. 2013a. The relationships of *Odontotrema* (Odontotremataceae) and the resurrected *Sphaeropezia* (Stictidaceae) - new combinations and three new *Sphaeropezia* species. *Mycologia* 105: 384-397.
- Baloch, E., Lumbsch, H.T., Lücking, R. & Wedin, M. 2013b. New combinations and names in *Gyalecta* for former *Belonia* and *Pachyphiale* (Ascomycota, Ostropales) species. *Lichenologist* 45: 723-727.
- Barr, M.E. 1997. Notes on some 'dimeriaceous' fungi. *Mycotaxon* 64: 149-171.
- Barrasa, J.M. & Rico, V.J. 2001. Lichenized species of *Omphalina* (Tricholomataceae) in the Iberian Peninsula. *Lichenologist* 33: 371-386.
- Baruffo, L., Zedda, L.Elix, J.A. & Tretiach, M. 2006. A revision of the lichen genus *Lepraria* s. lat. in Italy. *Nova Hedwigia* 83: 387-429.
- Baumgärtner, H. 1979. Revision der europäischen Arten der Gattung *Toninia*. München, 170 pp.
- Bekking, M. & Aptroot, A. 2017. Verslag BLWG Zomerkamp Öland, Zweden, zaterdag 11 t/m zaterdag 18 juni 2016. *Buxbaumia* 109: 1-24.
- Bendiksby, M. & Timdal, E. 2013. Molecular phylogenetics and taxonomy of *Hypocnomyce* sensu lato (Ascomycota: Lecanoromycetes): Extreme polyphyly and morphological/ecological convergence. + electronic supplement. *Taxon* 62: 940-956.
- Bendiksby, M., Haugan, R., Spribille, T. & Timdal, E. 2015. Molecular phylogenetics and taxonomy of the *Calvitimela aglaea* complex (Tephromelataceae, Lecanorales). *Mycologia* 107: 1172-1183.
- Berglund, T. & Andersson, M. 2008. SLF i Västmanland 1-4 maj 2008. *Lavbulletinen* 2008(2): 44-60.
- Berglund, T., Hermansson, J., Jonsson, F. & Thor, G. 2004. New records of *Phaeocalicium* in Scandinavia. *Symb. Bot. Upsal.* 34(1): 49-52.
- Bergsten, J. 2000 ("1999"). En för Sverige ny filtlav, *Peltigera monticola*, och några andra noteringar om släktet *Peltigera*. *Svensk Bot. Tidskr.* 93: 279-285.
- Bjelland, T. 2001. Comparative studies of the distribution and ecology of some oceanic species in the genus *Leptogium* in Norway. *Nova Hedwigia* 72: 1-44.
- Bjelland, T., Halleraker, G., Reeb, V. & Tønsberg, T. 1997. The chemotypes of *Cetrelia olivetorum* in Norway. *Graphis Scripta* 8: 5-7.
- Bjerke, J.W. & Timdal, E. 2006. The distribution of *Menegazzia subsimilis* in Norway. *Graphis Scripta* 18: 58-61.
- Bjerke, J.W. 2003a. The northern distribution range of *Lobaria hallii* in Europe and Greenland. *Graphis Scripta* 14: 27-31.
- Bjerke, J.W. 2003b. *Menegazzia subsimilis*, a widespread sorediate lichen. *Lichenologist* 35: 393-396.
- Blanco, O., Crespo, A., Divakar, P.K., Esslinger, T. L., Hawksworth, D.L. & Lumbsch, H.T. 2004. *Melanelixia* and *Melanohalea*, two new genera segregated from *Melanelia* (Parmeliaceae) based on molecular and morphological data. *Mycol. Res.* 108: 873-884.

- Blom, H.H. & Lindblom, L. 2009 ("2010"). *Degelia cyanoloma*, a distinct species from western Europe. *Lichenologist* 42: 23-27.
- Blom, H.H., Gaarder, G., Ihlen, P.G., Jordal, J.B. & Evju, M. 2015. Fattig boreonemoral regnskog – et hotspot-habitat. Sluttrapport under ARKO-prosjektets periode III. NINA Rapport 1169: 1-97.
- Bohlin, A. & Geijer, M. 1989. Halle- och Hunnebergs flora pp. 37-38. Lund 1989.
- Booth, C. 1959. Studies on Pyrenomycetes IV. *Nectria*. *Mycol. Papers* 73: 1-115.
- Borg, L. & Franc, N. 1998. *Xanthoria parietina* and *Xanthoria calcicola* at Kalmar Castle. *Graphis Scripta* 9: 35-42.
- Botnen, A. & Tønsberg, T. 1988. Addition to the lichen flora of Central Norway. *Gunneria* 58: 1-42.
- Botnen, A. & Øvstedal, D.O. 1988. Muscicolous *Lepraria* species and other leprarioid lichens in the Arctic. *Polar Research* 6: 129-133.
- Botnen, A. 1984. Lavfloraen i steilvegg og overheng på Bjørnen, Os, Hordaland. Hovedfaksoppgave, Bergen, 220 pp.
- Botnen, A. 1993. *Ramonia*, a lichen genus new to Scandinavia. *Graphis Scripta* 5: 49-50.
- Botnen, A. 1997. *Collema callopismum* new to Norway. *Graphis Scripta* 8: 9-10.
- Bowler, P.A. & Rundel, P.W. 1977. Synopsis of a new lichen genus, *Fistulariella* Bowler & Rundel (*Ramalinaceae*). *Mycotaxon* 006: 195-202.
- Bowler, P.A. & Rundel, P.W. 1978. The *Ramalina farinacea* Complex in North America: Chemical, Ecological and Morphological Variation. *Bryologist* 81: 386-403.
- Bratli, H. & Haugan, R. 1997. *Caloplaca lucifuga* new to Norway. *Graphis Scripta* 8: 41-43.
- Bratli, H. 1998. *Strangospora ochrophora* new to Norway. *Graphis Scripta* 9: 45-47.
- Bratli, H., Jørgensen, P.M., Haugan, R. & Johnsen, J. I. 2010. *Catapyrenium psoromoides* new to Norway. *Graphis Scripta* 22: 9-13.
- Braun, U. 1988. Studies on *Ramularia* and allied genera (1). *Int. J. Mycol. Lichenol.* 3: 271-285.
- Breuss, O. & Hansen, E.S. 1988. The lichen genera *Catapyrenium* and *Placidiopsis* in Greenland. *Pl. Syst. Evol.* 159: 95-105.
- Breuss, O. 1983. Eine neue *Placidiopsis*-Art aus Norwegen und den Alpen. *Pl. Syst. Evol.* 142: 247-250.
- Breuss, O. 1990a. Die Flechtengattung *Catapyrenium* in Europa. *Stapfia* 23: 1-153.
- Breuss, O. 1990b. Studien über die Flechtengattung *Catapyrenium* I. Die Gattung *Catapyrenium* in Europa - Ergänzungen. *Linzer Biol. Beitr.* 22: 69-80.
- Breuss, O. 1994. Studien über die Flechtengattung *Catapyrenium* VI. Eine neue Art aus Schweden. *Linzer Biol. Beitr.* 26: 643-644.
- Breuss, O. 1995. The genus *Catapyrenium* (*Verrucariaceae*) in the Southern Hemisphere. *Crypt. Bot.* 5: 177-183.
- Breuss, O. 1996a. Revision der flechtengattung *Placidiopsis* (*Verrucariaceae*). *Österr. Z. Pilzk.* 5: 65-94.
- Breuss, O. 1996b. Ein verfeinertes Gliederungskonzept für *Catapyrenium* (*Verrucariaceae*). *Ann. Naturhist. Mus. Wien* 95B (Suppl.): 35-50.
- Breuss, O. 1998. Drei neue holz- und borkenbewohnende *Verrucaria*-Arten mit einem Schlüssel der bisher bekannten Taxa. *Linzer Biol. Beitr.* 30: 831-836.
- Breuss, O. 2004. Neue Flechtenfunde vorwiegend pyrenocarper Arten, aus Oberösterreich. *Österr. Z. Pilzk.* 13: 267-275.
- Brodo, I.M. & Hawksworth, D.L. 1977. *Alectoria* and allied genera in North America. *Opera Bot.* 42: 1-164.

- Brodo, I.M. & Hertel, H. 1987. The lichen genus *Amygdalaria* (Porpidiaceae) in North America. *Herzogia* 7: 493-521.
- Brodo, I.M. & Vitikainen, O. 1984. The typification of *Lecanora subfusca* (L.) Ach., its varieties, and some of its related taxa published before 1850. *Mycotaxon* 021: 281-298.
- Brodo, I.M. & Vänskä, H. 1984. Notes on the maritime, lignicolous lichen *Lecanora orae-frigidae*. *Lichenologist* 16: 45-51.
- Brodo, I.M. 1976. *Lichenes Canadenses exsiccati*: Fascicle II. *Bryologist* 79: 385-405.
- Brodo, I.M. 1984a. The North American species of the *Lecanora subfusca* group. *Beih. Nova Hedwigia* 79: 63-185.
- Brodo, I.M. 1984b. *Lichenes Canadenses Exsiccati*. *Bryologist* 87: 97-111.
- Brodo, I.M. 1988. Studies of the lichen genus *Ochrolechia*. 1. A new classification for *Pertusaria subplicans* and *P. rhodoleuca*. *Canad. J. Bot.* 66: 1264-1269.
- Brodo, I.M. 1991. Studies in the lichen genus *Ochrolechia*. 2. Corticolous species of North America. *Canad. J. Bot.* 69: 733-772.
- Brodo, I.M. 1992. *Bryoria trichodes*, *Ochrolechia oregonensis* and *Xylographa opegraphella* new to Europe. *Graphis Scripta* 4: 61-65.
- Brodo, I.M. 1995. Lichens and lichenicolous fungi of the Queen Charlotte Islands, British Columbia, Canada. 1. Introduction and new records for B.C., Canada and North America. *Mycotaxon* 56: 135-173.
- Brodo, I.M., Owe-Larsson, B. & Lumbsch, H.T. 1994. The sorediate, saxicolous species of the *Lecanora subfusca* group in Europe. *Nord. J. Bot.* 14: 451-461.
- Buschardt, A. 1979. Zur Flechtenflora der inneralpinen Trockentäler. *Biblioth. Lichenol.* 10: 1-419.
- Büdel, B. & Henssen, A. 1988. *Trebouxia aggregata* und *Gloeocapsa sanguinea*, Phycobionten in *Euopsis granatina* (Lichinaceae). *Pl. Syst. Evol.* 158: 235-241.
- Böcher, T.W. & Christiansen, M.S. 1941. Nye Fund af Blad- og Busklikener i Danmark. *Bot. Tidsskr.* 45: 415-422.
- Calatayud, V. & Triebel, D. 1999. *Stigidium neofusceliae* (Dothidelaes), a new lichenicolous fungus from Spain. *Nova Hedwigia* 69: 439-448.
- Calatayud, V., Navarro-Rosinés, P. & Hafellner, J. 2002. A synopsis of *Lichenostigma* subgen. *Lichenogramma* (Arthoniales), with a key to the species. *Mycol. Res.* 106: 1230-1242.
- Canals, A., Hernandez-Mariné, M., Gomez-Bolea, A. & Llimona, X. 1997. *Botryolepraria*, a new monotypic genus segregated from *Lepraria*. *Lichenologist* 29: 339-345.
- Cannon, P.E., Hawksworth, D.L. & Sherwood-Pike, M.A. 1985. The British Ascomycotina. An annotated checklist. *Commonwealth Mycol. Inst.* 302 pp.
- Cannon, P., Ertz, D., Frisch, A., Aptroot, A., Chambers, S., Coppins, B., Sanderson, N., Simkin, J. & Wolseley, P. 2020. Arthoniales: Arthoniaceae, including the genera *Arthonia*, *Arthothelium*, *Briancoppinsia*, *Bryostigma*, *Coniocarpon*, *Diarthonis*, *Inoderma*, *Naevia*, *Pachnolepia*.
- Carlin, G. & Carlin-Silväng, U. 1982. De svenska *Stereocaulon-arterna* (påskrislavar). *Svensk Bot. Tidskr.* 76: 289-307.
- Carlin, G. & Owe-Larsson, B. 1994. *Cladonia polycarpoides* in Sweden, with a note on *C. cervicornis* ssp. *pulvinata*. *Graphis Scripta* 6: 1-6.
- Carlin, G. & Swahn, U. 1977. De svenska *Usnea-arterna* (skägglavar). *Svensk Bot. Tidskr.* 71: 89-100.
- Carlin, G. 1985. *Stereocaulon capitellatum* i Skandinavien. *Svensk Bot. Tidskr.* 79: 49-50.
- Carlin, G. 1992. Anteckningar om några arter av *Peltigera canina*-gruppen i Sverige. *Graphis Scripta* 4: 5-17.

- Carlin, G. 1998. *Stereocaulon tennesseense* new to Sweden. *Graphis Scripta* 9: 33-34.
- Christensen, S.N. & Søchting, U. 2007. Notes on the genus *Punctelia* in Denmark. *Graphis Scripta* 19: 13-16.
- Christensen, S.N. 1987. Morphological and chemical variation in the *Cladonia macilenta* C. bacillaris aggregate in Denmark. *Lichenologist* 19: 61-69.
- Christiansen, M.S. 1947. Bidrag till Danmarks lavflora. I. Bot. Tidsskr. 48: 172-191.
- Christiansen, M.S. 1954. *Nanostictis*, a new genus of sclerosporous discomycetes. Bot. Tidsskr. 51: 59-65.
- Christiansen, M.S. 1956. A new species of the form-genus *Lichenocodium* Petr. & Syd. (fungi imperfecti), *L. xanthoriae* sp. n. *Friesia* 5: 212-217.
- Christiansen, M.S. 1993. Further observation on the association between *Lecanora conizaeoides* and its parasites *Lichenocodium erodens* and *L. lecanorae*. *Graphis Scripta* 5: 18-21.
- Christiansen, M.S., Ramkaer, K., Rose, F. & Søchting, U. 1979. Additions to the Danish Lichen Flora. Bot. Tidsskr. 74: 89-115.
- Clauzade, G. & Roux, C. 1975. Lichens recolte par Jean Amic en Norvege et en Grande-Bretagne. Bull. Soc. Linn. Provence 28: 53-63.
- Clauzade, G. & Roux, C. 1984. Les genres *Aspicilia* Massal. & *Bellemeria* Hafellner & Roux. Bull. Soc. Bot. Centre-Ouest, N. ser. 15: 127-141.
- Clauzade, G. & Roux, C. 1985. Likenoj de Okcidenta Europo. Bull. Soc. Bot. Centre-Ouest, N. ser. No spec. 7-1985, 893 pp.
- Clauzade, G., Diederich, P. & Roux, C. 1989. Nelikenigintaj fungoj likenlogaj. Bull. Soc. Linn. Provence No Spec. 1: 1-142.
- Clerc, P. 1984. Contribution a la révision de la systématique des usnées (Ascomycotina, *Usnea*) d'Europe. I. - *Usnea florida* (L.) Wigg. emend. Clerc. *Cryptogamie, Bryol. Lichénol.* 1984: 333-360.
- Clerc, P. 1987. Systematics of the *Usnea fragilesceus* aggregate and its distribution in Scandinavia. Nord. J. Bot. 7: 479-495.
- Clerc, P. 1997. Notes on the genus *Usnea*. *Lichenologist* 29: 209-215.
- Clerc, P. 2011. *Usnea*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 107-127, 141.
- Codogno, M., Poelt, J. & Puntillo, D. 1989. *Umbilicaria freyi* spec. nova und der Formenkreis von *Umbilicaria hirsuta* in Europa. Pl. Syst. Evol. 165: 55-69.
- Cole, M.S. & Hawksworth, D.L. 2001. Lichenicolous fungi, mainly from USA, including *Patricomyces*. *Mycotaxon* 77: 305-338.
- Collin, P. & Lauron, A. 1994. *Omphalina peltigerina* (Peck) P. Collin, champignon lichénicole nouveau pour la France. Bull. Soc. Mycol. France 110: 11-16, Pl. 280.
- Coppins, B.J. & Aptroot, A. 2008. New species and combinations in The Lichens of the British Isles. *Lichenologist* 40: 363-374.
- Coppins, B.J. & Bennell, A.P. 1979. Thallus surface feature in *Agonimia tristicula*. *Lichenologist* 11: 107-108.
- Coppins, B.J. & Chambers, S.P. 2009. *Protoparmelia*. In: The Lichens of Great Britain and Ireland (Smith, C.W., Aptroot, A., Coppins, B.J., Fletcher, A., Gilbert, O.L., James, P.W. & Wolseley, P.A. eds.). 753-755.
- Coppins, B.J. & James, P.W. 1978. New or interesting British lichens II. *Lichenologist* 10: 179-207.
- Coppins, B.J. & James, P.W. 1979a. A British species of *Dictyonema*. *Lichenologist* 11: 103-105.
- Coppins, B.J. & James, P.W. 1979b. New or interesting British lichens IV. *Lichenologist* 11: 139-179.

- Coppins, B.J. & James, P.W. 1979c. New or interesting British lichens III. *Lichenologist* 11: 27-45.
- Coppins, B.J. & James, P.W. 1984. New or interesting British lichens V. *Lichenologist* 16: 241-264.
- Coppins, B.J. & James, P.W. 1989. The identity of 'Lecidea cinnabarina' in the British Isles. *Lichenologist* 21: 237-242.
- Coppins, B.J. & Muhr, L.-E. 1997. *Micarea lapillicola*, a previously misunderstood species from NW Europe. *Graphis Scripta* 8: 45-49.
- Coppins, B.J. & Purvis, O.W. 1987. A review of *Psilolechia*. *Lichenologist* 19: 29-42.
- Coppins, B.J. & Tønsberg, T. 1984. *Arthothelium*, Norway. *Nord. J. Bot.* 4: 75-77.
- Coppins, B.J. & Tønsberg, T. 1988. *Lecidea roseotincta*, a new lichen species from Norway. *Nord. J. Bot.* 8: 415-418.
- Coppins, B.J. & Tønsberg, T. 2001. A new xanthone-containing *Micarea* from Northwest Europe and the Pacific Northwest of North America. *Lichenologist* 33: 93-96.
- Coppins, B.J. & Vězda, A. 1977. *Macentina*, a lichen genus new to Europe. *Lichenologist* 9: 47-49.
- Coppins, B.J. 1983. A taxonomic study of the lichen genus *Micarea* in Europe. *Bull. Br. Mus. nat. Hist. (Bot.)* 11(2): 1-214.
- Coppins, B.J. 1985. A new *Micarea* from the Scottish highlands. *Lichenologist* 17: 99-101.
- Coppins, B.J. 1987. The genus *Vezeada* in the British Isles. *Lichenologist* 19: 167-176.
- Coppins, B.J. 1988a. Notes on the genus *Arthopyrenia* in the British Isles. *Lichenologist* 20: 305-325.
- Coppins, B.J. 1988b. Two new *Micarea* species from Europe. *Notes R. Bot. Gard. Edinb.* 45: 161-169.
- Coppins, B.J. 1989a. Notes in the *Arthoniaceae* in the British Isles. *Lichenologist* 21: 195-216.
- Coppins, B.J. 1989b. On some species of *Catillaria* s. lat. and *Halecania* in the British Isles. *Lichenologist* 21: 217-227.
- Coppins, B.J. 1989c. Correction (*Bacidia carneoalbida*). *Lichenologist* 21: 99.
- Coppins, B.J. 1992. Three new lichens for Norway. *Graphis Scripta* 4: 89-90.
- Coppins, B.J. 1994a. *Micarea submilliaria* (Nyl.) Coppins, the correct name for *Micarea subleprosa* (Vezda) Vezda. *Graphis Scripta* 6: 37-38.
- Coppins, B.J. 1994b. *Catillaria aphanica* and *C. scotinodes* in Sweden. *Graphis Scripta* 6: 65-66.
- Coppins, B.J. 2002. Checklist of lichens of Great Britain and Ireland. *British Lichen Society*, 87 pp.
- Coppins, B.J., James, P.W. & Hawksworth, D.L. 1992. New species and combinations in the lichens flora of Great Britain and Ireland. *Lichenologist* 24: 351-369.
- Coppins, B.J., Thor, G. & Nordin, A. 1994. The genus *Ramonia* in Sweden. *Graphis Scripta* 6: 89-92.
- Corner, E.J.H. 1956. A new European *Clavaria*; *Clavulinopsis septentrionalis* sp. nov. *Friesia* 5: 218-220.
- Cramer, M.-B. 1975. Corticolous lichens of riparian deciduous trees in the Central Front Range of Colorado. *Bryologist* 78: 44-56.
- Crespo, A. & Sancho, L.G. 1982. *Umbilicaria aprina* Nyl. en el Hemisferio Sur (Andes peruanos). *Lazaroa* 4: 357-360.
- Crespo, A., Divakar, P.K., Argüello, A., Gasca, C. & Hawksworth, D.L. 2004. Molecular studies on *Punctelia* species of the Iberian Peninsula, with an emphasis on specimens newly colonizing Madrid. *Lichenologist* 36: 299-308.

- Crespo, A. et al. 2010. Phylogenetic generic classification of parmelioid lichens (Parmeliaceae, Ascomycota) based on molecular, morphological and chemical evidence. *Taxon* 59: 1735-1753.
- Crevelde, M.C. 1981. Epilithic lichen communities in the alpine zone of Southern Norway. *Biblioth. Lichenol.* 17: 1-287.
- Culberson, W.L. & Culberson, C.F. 1968. The lichen genera *Cetrelia* and *Platismatia* (Parmeliaceae). *Contr. U. S. Natl. Herb.* 34(7): 449-558.
- Culberson, C.F. & Hertel, H. 1979. Chemical and morphological analysis of the *Lecidea lithophilaplana* group (Lecideaceae). *Bryologist* 82: 189-197.
- Culberson, C.F. & Kristinsson, H. 1969. Studies on the *Cladonia chlorophaea* group: a new species, a new meta-depside and the identity of "novochlorophaea acid". *Bryologist* 72: 431-443.
- Culberson, W.L. 1952. Étude systématique et phytogéographique de *Enterographa crassa* (DC.) Fée. *Rev. Bryol. Lichénol.* 21: 276-284.
- Culberson, W.L. 1963. The lichen genus *Thamnolia*. *Brittonia* 15: 140-144.
- Culberson, W.L. 1966. Chimie et taxonomie des Lichens du groupe *Ramalina farinacea* en Europe. *Rev. Bryol. Lichénol.* 34: 841-851.
- Culberson, W.L. 1967. Analysis of chemical and morphological variation in the *Ramalina siliquosa* species complex. *Brittonia* 19: 333-352.
- Culberson, W.L. 1969. The chemistry and systematics of some species of the *Cladonia cariosa* group in North America. *Bryologist* 72: 377-386.
- Culberson, W.L. 1970. *Parmelia discordans*, lichen peu connu d'Europe. *Rev. Bryol. Lichénol.* 37: 183-186.
- Culberson, W.L., Culberson, C.F. & Johnson, A. 1977. *Pseudevernia furfuracea-olivetorina* relationships: chemistry and ecology. *Mycologia* 69: 604-614.
- Culberson, C.F., Hale, M.E., Tønsberg, T. & Johnson, A. 1984. New depsides from the lichens *Dimelaena oreina* and *Fuscidea viridis*. *Mycologia* 76: 148-160.
- Czarnota, P. & Coppins, B.J. 2000. A new species of *Agonimia* and some interesting lichens from Gorce Mts (Western Beskidy Mts) new to Poland. *Graphis Scripta* 11: 56-60.
- Czarnota, P. & Coppins, B.J. 2006. A new *Bacidia* with long-necked pycnidia from Central Europe. *Lichenologist* 38: 407-410.
- Czarnota, P. & Guzew-Krzeminska, B. 2009 ("2010"). A phylogenetic study of the *Micarea prasina* group shows that *Micarea micrococca* includes three distinct lineages. *Lichenologist* 42: 7-21.
- Czarnota, P. 2007. The lichen genus *Micarea* in Poland. *Polish Bot. Studies* 23: 1-199.
- Dahl, E. & Krog, H. 1970. On the distribution of *Cladonia luteoalba* Wils. & Wheld. *Nytt Mag. Bot.* 17: 143-144.
- Dahl, E. 1938. Interesting finds of lichens in Norway. *Nytt Mag. Naturvid.* 78: 127-138.
- Dahl, E. 1950. Studies in the macrolichen flora of South West Greenland. *Meddelelser om Grønland* 150(2): 1-176.
- Dahl, M. 2003. Kampen om barken – gul dropplav och ekspik på ek. *Svensk Bot. Tidskr.* 97: 201-205.
- David, J.C. & Hawksworth, D.L. 1989. *Lauderlindsaya*, a new genus in the Verrucariales for *Sphaerulina chlorococca* (Leighton) R. Sant. *Sydowia* 41: 109-121.
- Davydov, E.A. & Printzen, C. 2012. Rare and noteworthy boreal lichens from the Altai Mountains (South Siberia, Russia). *Bryologist* 115: 61-73.
- Degelius, G. 1929. Lichenologiska bidrag. II. *Bot. Notiser* 1929: 246-262.
- Degelius, G. 1930. Lichenologiska bidrag. III. *Bot. Notiser* 1930: 344-359.

- Degelius, G. 1931. Zur Flechtenflora von Ångermanland. *Arkiv Bot.* 24A(3): 1-122.
- Degelius, G. 1932a. Zur Flechtenflora des südlichsten Lapplands (Åsele Lappmark). *Arkiv Bot.* 25A(1): 1-72.
- Degelius, G. 1932b. Lichenologiska bidrag. IV. *Bot. Notiser* 1932: 278-294.
- Degelius, G. 1935. Das ozeanische Element der Staruch- und Laubflechtenflora von skandinavien. *Acta Phytogeogr. Suecica* 7: 1-411.
- Degelius, G. 1936. Zwei bemerkenswerte Funde ozeanischer Flechten an der norwegischen Westküste. *Kongl. Norske Vidensk. Selsk. Forhandl.* 9(29): 114-117.
- Degelius, G. 1937. Lichens from southern Alaska and the Aleutian Islands collected by Dr. E. Hultén. *Medd. Göteborgs Bot. Trädgård* 12: 105-144.
- Degelius, G. 1939a. Die Flechten von Norra Skaftön. *Uppsala Univ. Årsskrift* 1939(11): 1-205.
- Degelius, G. 1939b. Några lavfynd från Upplands urkalkområden. *Svensk Bot. Tidskr.* 33: 423-428.
- Degelius, G. 1939c. Ett fynd av *Stereocaulon saxorum* Bachm. i Uppland. *Svensk Bot. Tidskr.* 33: 109-110.
- Degelius, G. 1940. Bidrag till norra Själlands lavflora. *Bot. Tidskr.* 45: 141-147.
- Degelius, G. 1941. Lichens from the Azores mainly collected by Dr. H. Persson. *Göteborgs Kungl. Vet.-Vitterhets-Samh. Handl. ser. B*, 1(7): 1-42.
- Degelius, G. 1942. Die Flechten der Insel Ornö. *Svensk Bot. Tidskr.* 36: 9-48.
- Degelius, G. 1943a. Zur Kenntnis der Flechtenflora um den See Virihaure in Lule Lappmark (Schwedisch-Lappland). *Bot. Notiser* 1943: 75-113.
- Degelius, G. 1943b. Über die Flechtengattung *Pseudoleptogium* Müll. *Arg. Svensk Bot. Tidskr.* 37: 65-72.
- Degelius, G. 1943c. Några lavar från Nämndö och angränsande öar i Stockholms skärgårds barrskogsregion. *Svensk Bot. Tidskr.* 37: 407-412.
- Degelius, G. 1944a. Nya bidrag till kännedomen om lavfloran på bark, lignum och urbergsblock på Gotland. *Svensk Bot. Tidskr.* 38: 27-63.
- Degelius, G. 1944b. Några märkligare fynd av *Collema* på Gotland. *Svensk Bot. Tidskr.* 38: 178-184.
- Degelius, G. 1944c. Lavfloran inom Ombergs skyddsområde. *K. Svenska Vetensk.-Akad. Skr. Natusskyddsärenden* 46: 1-35.
- Degelius, G. 1945a. Till kännedomen om Ölands silikatstenslavar. *Svensk Bot. Tidskr.* 39: 9-45.
- Degelius, G. 1945b. Ett sydberg i Kebnekaiseområdet och dess lavflora. *Bot. Notiser* 1945: 390-412.
- Degelius, G. 1945c. Lichenisierte hormocysten, ein neuer Diasporentypus der Flechten. *Svensk Bot. Tidskr.* 39: 419-430.
- Degelius, G. 1948a. Lichenologiska anteckningar från en resa i södra Norge. *Bot. Notiser* 1948: 137-156.
- Degelius, G. 1948b. Några lavar från Runmarö, ytterligare om lavfloran i Stockholms skärgårds barrskogsregion. *Svensk Bot. Tidskr.* 42: 70-76.
- Degelius, G. 1952a. On the lichen *Cavernularia hultenii* and the problem of the glacial survival of spruce in Scandinavia. *Svensk Bot. Tidskr.* 46: 53-61.
- Degelius, G. 1952b. Svenska fynd av *Lecanora demissa*. *Svensk Bot. Tidskr.* 46: 488-490.
- Degelius, G. 1954. The lichen genus *Collema* in Europe. *Symb. Bot. Upsal.* 13(2): 1-499.
- Degelius, G. 1955a. Studies in the lichen family *Collemataceae*. I. *Physma omphalorioides* in Norway. New to northern Europe. *Svensk Bot. Tidskr.* 49: 136-142.

- Degelius, G. 1955b. The lichen flora on calcareous substrata in southern and central Nordland (Norway). *Acta Horti Gotob.* 20: 35-56.
- Degelius, G. 1956. Om lavfloran i övre Setredalen (Sydnorge). *Bot. Notiser* 109: 349-367.
- Degelius, G. 1957. The epiphytic lichen flora of the birch stands in Iceland. *Acta Horti Gotob.* 22: 1-51.
- Degelius, G. 1961. The lichen flora of the Botanic Garden in Gothenburg (Sweden). *Acta Horti Gotob.* 24: 24-60.
- Degelius, G. 1964. Biological studies of the epiphytic vegetation on twigs of *Fraxinus excelsior*. *Acta Horti Gotob.* 27: 11-55.
- Degelius, G. 1968. Några växtgeografiskt intressanta fynd. *Svensk Bot. Tidskr.* 62: 405-409.
- Degelius, G. 1969. Soteskärs lavar. Till kännedomen om lavfloran i Bohusläns yttersta skärgård. *Svensk Bot. Tidskr.* 63: 372-377.
- Degelius, G. 1974. The lichen genus *Collema* with special reference to the Extra-European species. *Symb. Bot. Upsal.* 20(2): 1-215.
- Degelius, G. 1978. Further studies on the epiphytic vegetation on twigs. *Bot. Gothoburg.* 7: 1-58.
- Degelius, G. 1982. The lichen flora of the island of Vega in Nordland, northern Norway. *Acta Reg. Soc. Sci. Litt. Gothoburgensis, Bot.* 2: 1-127.
- Degelius, G. 1986. The lichen flora of the Island of Anholt, Denmark. *Acta Reg. Soc. Sci. Litt. Gothoburgensis, Bot.* 3: 1-60.
- Demoulin, V., Hawksworth, D.L., Korf, R.P. & Pouzar, Z. 1981. A solution of the starting point problem in the nomenclature of fungi. *Taxon* 30: 52-63.
- DePriest, P. 1993. Variation in the *Cladonia chlorophaea* complex I: Morphological and chemical variation in Southern Appalachian populations. *Bryologist* 96: 555-563.
- Dibben, M.J. 1980. The chemosystematics of the lichen genus *Pertusaria* in North America north of Mexico. Milwaukee Public Museum, publ in biology and geology 5: 1-162.
- Dickhäuser, A., Lumbsch, H.T. & Feige, G.B. 1995. A synopsis of the *Lecanora subcarnea* group. *Mycotaxon* 56: 303-323.
- Diederich, P. & Christiansen, M.S. 1994. *Biatoropsis usnearum*, and other *Heterobasidiomycetes* on *Usnea*. *Lichenologist* 26: 47-66.
- Diederich, P. & Etayo, J. 1994. Taxonomic notes on the genus *Plectocarpon*. *Nord. J. Bot.* 14: 589-600.
- Diederich, P. & Etayo, J. 2000. A synopsis of the genera *Skyttea*, *Llimoniella* and *Rhymbocarpus* (Leotiales). *Lichenologist* 32: 423-485.
- Diederich, P. & Marson, G. 1988. *Tremella coppinsii*, a new lichenicolous *Bacidiomycete* from Sarawak. *Notes R. Bot. Gard. Edinb.* 45: 175-176.
- Diederich, P. & Scholz, P. 1995. New or interesting lichenicolous fungi. 5. - *Sclerococcum leuckertii* spec. nova (Deuteromycotina). *Biblioth. Lichenol.* 57: 113-116.
- Diederich, P. & Sérusiaux, E. 1993. A nomenclatural note on *Lauderlindsaya*. *Lichenologist* 25: 97-100.
- Diederich, P. & Sérusiaux, E. 2000. The lichens and lichenicolous fungi of Belgium and Luxembourg. An annotated checklist. *Musée National d'Histoire Naturelle, Luxembourg*, 1-207.
- Diederich, P. & Zhurbenko, M. 1997. *Taeniolella rolffii* sp. nov., a new lichenicolous hyphomycete from the Siberian Arctic. *Symb. Bot. Upsal.* 32(1): 11-16.
- Diederich, P. & Zhurbenko, M. 2001. Nomenclatural notes on *Taeniolella rolffii*. *Graphis Scripta* 12: 37-40.
- Diederich, P. 1986. Lichenicolous fungi from the Grand Duchy of Luxembourg and surrounding areas. *Lejeunia* 119: 1-26.

- Diederich, P. 1989. Les lichens épiphytiques & leurs champignons lichénicoles (macrolichens exceptés) du Luxembourg. *Trav. Sci. Mus. Nat. Hist. Nat. Luxembourg* 14, 268 pp.
- Diederich, P. 1990. New or interesting lichenicolous fungi 1. Species from Luxembourg. *Mycotaxon* 037: 297-330.
- Diederich, P. 1992. New or interesting lichenicolous fungi. 2. *Taeniolella beschiana* sp. nov. and *Taeniolella serusiauxii* sp. nov. *Bull. Soc. Nat. Luxemb.* 93: 155-162.
- Diederich, P. 1996. The lichenicolous Heterobasidiomycetes. *Biblioth. Lichenol.* 61: 1-198.
- Diederich, P. 2003. New species and new records of American lichenicolous fungi. *Herzogia* 16: 41-90.
- Diederich, P., Sérusiaux, E. & van den Boom, P.P.G. 1991. Lichens & champignons lichénicoles nouveaux ou intéressants pour la flore de la Belgique & des régions voisines. V. *Lejeunia* 136: 1-47.
- Diederich, P., Zhurbenko, M. & Etayo, J. 2002. The lichenicolous species of *Odontotrema* (syn. *Letariicola*). *Lichenologist* 34: 479-501.
- Diederich, P., Ertz, D. & Etayo, J. 2010. An enlarged concept of *Llimoniella* with a revised key to the species and notes on related genera. *Lichenologist* 42: 253-269.
- Diederich, P., Ertz, D., Eichler, M., Cezanne, R., van den Boom, P., Fischer, E., Killmann, D., van den Broeck, D. & Sérusiaux, E. 2012a. New or interesting lichens and lichenicolous fungi from Belgium, Luxembourg and northern France. XIV. *Bull. Soc. Nat. Luxemb.* 113: 95-115.
- Diederich, P., Lawrey, J.D., Sikaroodi, M., van den Boom, P.P.G. & Ertz, D. 2012b. *Briancoppinsia*, a new coelomycetous genus of Arthoniaceae (Arthoniales) for the lichenicolous *Phoma cytophora*, with a key to this and similar taxa. *Fungal Diversity* 52: 1-12.
- Diederich, P., Lawrey, J.D. & Ertz, D. 2018. The 2018 classification and checklist of lichenicolous fungi, with 2000 non-lichenized, obligately lichenicolous taxa. *Bryologist* 121: 340-425.
- Dillman, K.L. et al. 2012. New records, range extensions and nomenclatural innovations for lichens and lichenicolous fungi from Alaska, U.S.A. *Herzogia* 25: 177-210.
- Dobson, F.S. & Hawksworth, D.L. 1976. *Parmelia pastillifera* and *P. tiliacea* in the British Isles. *Lichenologist* 8: 47-59.
- Du Rietz, G.E. 1916. *Lichenologiska fragment. II.* *Svensk Bot. Tidskr.* 10: 471-478.
- Du Rietz, G.E. 1919. Några lavar från det 16:e naturforskarmötets exkursion i Bergens skärgård. *Bergens Mus. Aarbol 1917-19, Nat.-vet rekke* 16: 26-31.
- Du Rietz, G.E. 1921. *Zur methodologischen Grundlage der modernen Pflanzensoziologie.* Uppsala, Wien.
- Du Rietz, G.E. 1923. *Lichenologiska fragment. V.* *Svensk Bot. Tidskr.* 17: 83-95.
- Du Rietz, G.E. 1925a. *Flechtensystematische Studien. VI.* *Bot. Notiser* 1925: 362-372.
- Du Rietz, G.E. 1925b. *Gotländische Vegetationsstudien.* *Svenska Växtgeogr. Sällsk. Handl.* 2: 1-65.
- Du Rietz, G.E. 1925c. *Die Hauptzüge der Vegetation der Inseln Jungfrun.* *Svensk Bot. Tidskr.* 19: 323-346.
- Du Rietz, G.E. 1926. *Bestämningsschema över Skandinavien Stereocaulon-arter.* *Svensk Bot. Tidskr.* 20: 95-96.
- Duncan, U.K. 1970. *Introduction to British lichens.* Arbroath, 277 pp., 128 plates.
- Döbbeler, P. & Feuerer, T. 2004. *Stenocybe nitida*, an unusual ascomycete on *Plagiochila punctata*. *Biblioth. Lichenol.* 88: 91-102.

- Döbbeler, P. & Poelt, J. 1977. *Absconditella celata* spec. nov., eine Flechtenart aus Lappland. *Herzogia* 4: 363–366.
- Döbbeler, P. 1984. Symbiosen zwischen Gallertalgen und Gallertpilzen der Gattung *Epigloea* (Ascomycetes). *Beih. Nova Hedwigia* 79: 203-239.
- Döbbeler, P. 1994. *Epigloea urosperma* (Ascomycetes) - ein neuer Flechtenparasit. *Sendtnera* 2: 277-282.
- Egan, R.S. 1985. Recent literature on lichens - 123. *Bryologist* 88: 148-156.
- Egea, J.M. & Torrente, P. 1993a. The lichen genus *Bactrospora*. *Lichenologist* 25: 211-255.
- Egea, J.M. & Torrente, P. 1993b. *Cresponea*, a new genus of lichenized fungi in the order Arthoniales. *Mycotaxon* 048: 301-331.
- Egea, J.M. & Torrente, P. 1994. El género de hongos liquenizados *Lecanactis* (Ascomycotina). *Biblioth. Lichenol.* 54: 1-205.
- Egea, J.M. 1989. Los géneros *Heppia* y *Peltula* en Europa Occidental y Norte de Africa. *Biblioth. Lichenol.* 31: 1-122.
- Ehrenroth, B. & Owe-Larsson, B. 1991. Hammarö sydspets - udde i Vänern. Örebro 1991. 1-96.
- Eigler, G. 1969. Studien zur Gliederung der Flechtengattung *Lecanora*. *Diss. Bot.* 4: 1-195, 30 Taf.
- Ek, T., Johannesson, J., Nordén, B. & Ström, B. 2002. Getlav i Sverige – långspridning eller relik från varmetiden? *Svensk Bot. Tidskr.* 96: 210-213.
- Ekman, S. & Arup, U. 2000. Notes on the lichen flora of southern Sweden III. *Graphis Scripta* 11: 41-47.
- Ekman, S. & Ekman, L. 2015. *Ramalina elegans* återfunnen i Uppland. *Lavbulletinen* 2014(2): 40-44.
- Ekman, S. & Ekman, L. 2018. *Protoblastenia lilacina* ny för Sverige. *Lavbulletinen* 2017(2): 69-73.
- Ekman, S. & Fröberg, L. 1988. Taxonomical problems in *Aspicilia contorta* and *A. hoffmannii* - an effect of hybridization? *Int. J. Mycol. Lichenol.* 3: 215-225.
- Ekman, S. & Holien, H. 1995. *Bacidia caesiovirens*, a new lichen species from Western Europe. *Lichenologist* 27: 91-98.
- Ekman, S. & Nordin, A. 1993. The taxonomy of *Bacidia fraxinea* and its relationship to *Bacidia rubella*. *Ann. Bot. Fennici* 30: 77-82.
- Ekman, S. & Svensson, M. 2014. *Brianaria* (Psoraceae), a new genus to accommodate the *Micarea sylvicola* group. *Lichenologist* 46: 285-294.
- Ekman, S. 1993. A taxonomic study of *Ropalospora chlorantha*, and a comparison between *Ropalospora* and *Fuscidea*. *Bryologist* 96: 582-591.
- Ekman, S. 1994. *Biatora meiocarpa* (Nyl.) Arnold, a misunderstood species. *Lichenologist* 26: 31-37.
- Ekman, S. 1996. The corticolous and lignicolous species of *Bacidia* and *Bacidina* in North America. *Opera Bot.* 127: 1-148.
- Ekman, S. 1997. The genus *Cliostomum* revisited. *Symb. Bot. Upsal.* 32(1): 17-28.
- Ekman, S. 2009. *Bacidia rosellizans*, a new lichen species from the taiga belt. *Lichenologist* 41: 481-487.
- Ekman, S. 2010a. SLFs exkursion till Uppland 7-9 maj 2010. *Lavbulletinen* 2010(3): 136-141.
- Ekman, S. 2010b. I döda lavars sällskap - *Cresponea premnea* ny gammal för Sverige. *Lavbulletinen* 2010 (3): 151-154.
- Ekman, S. 2011. Savlundlav *Bacidia incompta* - en sydsvensk art på ädellövträd. *Lavbulletinen* 2011(2): 56-59.
- Ekman, S. 2013. *Psoroglaena abscondita* new to Sweden. *Graphis Scripta* 25: 1-5.

- Ekman, S. 2015. *Fellhaneropsis almquistiorum* sp. nov. from Europe (Pilocarpaceae, lichenized Ascomycota). *Nord. J. Bot.* 33: 641-645.
- Ekman, S., Frödén, P. & Westberg, M. 2000. *Moelleropsis nebulosa* rediscovered in Sweden. *Graphis Scripta* 12: 15-22.
- Ekman, S., Jonsson, F. & Hermansson, J. 2012. *Bacidina etayana* and *B. saxenii* new to Sweden. *Graphis Scripta* 24: 14-18.
- Ekman, S., Aguirre-Hudson, B., Arup, U., Fritz, Ö. & Svensson, M. 2013. *Rhaphidocyrtis trichosporella* new to Sweden. *Graphis Scripta* 25: 6-11.
- Ekman, S., Wedin, M., Lindblom, L. & Jørgensen, P. M. 2014. Extended phylogeny and a revised generic classification of the Pannariaceae (Peltigerales, Ascomycota). *Lichenologist* 46: 627-656.
- Ekman, S., Svensson, M., Westberg, M. & Zamora, J.C. 2019a. Additions to the lichen flora of Fennoscandia III. *Graphis Scripta* 31: 34-46.
- Ekman, S., Tønsberg, T. & Jørgensen, P.M. 2019b. The *Sticta fuliginosa* group in Norway and Sweden. *Graphis Scripta* 31: 23-33.
- Eliasson, Y. 1965. Outline of the most common and conspicuous marine lichens on the west coast of Sweden. *Bot. Gothoburgensia* 3: 75-76.
- Elix, J.A. & Crook, C.F. 1992. The joint occurrence of chloroxanthenes in lichens, and a further thirteen new lichen xanthenes. *Bryologist* 95: 52-64.
- Elix, J.A. & Thell, A. 2011a. *Hypotrachyna*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 62-64.
- Elix, J.A. & Thell, A. 2011b. *Parmotrema*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 94-97.
- Elix, J.A. & Thell, A. 2011c. *Xanthoparmelia*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 131-138, 140.
- Elix, J.A. 2002. Chemical variation in the lichen *Neofuscelia pulla* sensu Esslinger. *Australasian Lichenology* 51: 7-13.
- Elix, J.A. 2012. Four new species and a new record of *Tephromela* (lichenized Ascomycota) from Australia. *Australasian Lichenology* 71: 3-11.
- Ellis, M.B. 1976. *More Dematiaceous Hyphomycetes*. Kew, 507 pp.
- Ellis, L.T. 1981. A revision and review of *Lemmopsis* and some related species. *Lichenologist* 13: 123-139.
- Elvebakk, A. & Bjerke, J.W. 2006. The Skibotn area in North Norway - an example of very high lichen species richness far to the north. *Mycotaxon* 96: 141-146.
- Elvebakk, A. & Hertel, H. 1997. A catalogue of Svalbard lichens. In: Elvebakk, A., Prestrud, P. (eds.): *A Catalogue of Svalbard Plants, Fungi, Algae, and Cyanobacteria*. Norsk Polarinstitutt Skrifter 198: 271-359.
- Elvebakk, A. 2012. An overlooked *Psoroma* in Denmark and southern parts of Sweden. *Graphis Scripta* 24: 45-48.
- Erichsen, C.F.E. 1935. *Pertusariaceae*. Rabenhorst's *Krypt.-Fl.*, ed. 2, 9, 5, 1(2): 321-512.
- Erichsen, C.F.E. 1936. *Pertusariaceae*. Rabenhorst's *Krypt.-Fl.*, ed. 2, 9, 5, 1(3): 513-728.
- Erichsen, C.F.E. 1937. Weitere Beiträge zur Flechtenflora Schleswig-Holsteins und des Gebiets der Unterelbe. *Schriften Naturwissenschaftlichen Vereins Schleswig-Holstein* 12: 89-116.
- Erichsen, C.F.E. 1940. Neue *Pertusarien* nebst Mitteilung über die geographische Verbreitung der europäischen Arten. *Ann. Myc.* 38: 16-55.
- Eriksson, O.E. & Hawksworth, D.L. 1987. Notes on ascomycete systematics. Nos 225-463. *Systema Ascom.* 6: 111-165.
- Eriksson, J. & Ryvarden, L. 1973. *The Corticiaceae of North Europe* 2. Oslo, 261 pp., 24 Pl.

- Eriksson, O.E. & Santesson, R. 1986. *Lasiosphaeriopsis stereocaulicola*. Mycotaxon 025: 569-580.
- Eriksson, O.E. 1981. The families of bitunicate Ascomycetes. Opera Bot. 60: 1-220.
- Eriksson, O.E. 1992. The non-lichenized pyrenomycetes of Sweden. Lund, 208 pp.
- Ernst, G. 1995. *Veздаа leprosa* - Spezialist am Strassenrand. Herzogia 11: 175-188.
- Ertz, D. & Diederich, P. 2004. Revision of *Trimmatothele* (Verrucariaceae), and description of *Oevstedalia* for *Trimmatothelopsis antarctica*, a new lichen genus with true ascoconidia. Mycol. Progress 3: 229-236.
- Ertz, D. & Diederich, P. 2015. Dismantling Melaspileaceae: a first phylogenetic study of *Buellia*, *Hemigrapha*, *Karschia*, *Labrocarpon* and *Melaspilea*. Fungal Diversity 71: 141-164.
- Ertz, D. & Tehler, A. 2011. The phylogeny of Arthoniales inferred from nucLSU and RPB2 sequences. Fungal Diversity 49: 47-71.
- Ertz, D. & Tønsberg, T. 2021. A new species of *Sagiolechia* (Sagiolechiaceae) from Norway, with lirelliform ascomata and 1-septate ascospores. Graphis Scripta 33: 1-11.
- Ertz, D., Zhurbenko, M., Diederich, P. & Miadlikowska, J. 2003. A new species of *Plectocarpon* on *Peltigera*. Bryologist 106: 465-467.
- Ertz, D., Diederich, P. & Miadlikowska, J. 2004. The lichenicolous *Opegrapha* species with 3-septate ascospores on *Pertusaria* and *Ochrolechia*. Bot. J. Linn. Soc. 144: 235-241.
- Ertz, D., Chrisnach, C., Wedin, M. & Diederich, P. 2005. A world monograph of the genus *Plectocarpon* (Roccellaceae, Arthoniales). Biblioth. Lichenol. 91: 1-155.
- Ertz, D., Miadlikowska, J., Lutzoni, F., Dessein, S., Raspe, O., Vigneron, N., Hofstetter, V. & Diederich, P. 2009. Towards a new classification of the Arthoniales (Ascomycota) based on a three-gene phylogeny focussing on the genus *Opegrapha*. Mvcol. Res. 113: 141-152.
- Ertz, D., Diederich, P., Lawrey, J.D., Berger, F., Freebury, C.E., Coppins, B., Gardiennet, A. & Hafellner, J. 2015. Phylogenetic insights resolve *Dacampiaceae* (Pleosporales) as polyphyletic: *Didymocyrtis* (Pleosporales, Phaeosphaeriaceae) with *Phoma*-like anamorphs resurrected and
- Ertz, D., Guzow-Krzeminska, B., Thor, G., Lubek, A. & Kukwa, M. 2018. Photobiont switching causes changes in the reproduction strategy and phenotypic dimorphism in the Arthoniomycetes. Scientific Reports 8:4952, 1-14.
- Ertz, D., Sanderson, N., Coppins, B.J., Klepsland, J. T. & Frisch, A. 2019. *Opegrapha multipuncta* and *Schismatomma quercicola* (Arthoniomycetes) belong to the Lecanoromycetes. Lichenologist 51: 395-405.
- Esseen, P.-A. & Ericson, L. 1982. Granskogar med långskägglav i Sverige. Naturvårdsverket, Rapport snv pm 1513.
- Esslinger, T.L. 1977. A chemosystematic revision of the brown Parmeliae. J. Hattori Bot. Lab. 42: 1-211.
- Esslinger, T.L. 1978. A new status for the brown Parmeliae. Mycotaxon 007: 45-54.
- Esslinger, T.L. 1990. On the correct names for some species of *Melanelia*. Mycotaxon 037: 401-402.
- Etayo, J. & Diederich, P. 1996a. Lichenicolous fungi from the Western Pyrenees, France and Spain. III. Species on *Lobaria pulmonaria*. Bull. Soc. Nat. Luxemb. 97: 93-118.
- Etayo, J. & Diederich, P. 1996b. Lichenicolous fungi from the Western Pyrenees, France and Spain. II. More Deuteromycetes. Mycotaxon 60: 415-428.
- Etayo, J. & Diederich, P. 1998. Lichenicolous fungi from the western Pyrenees, France and Spain. IV. Ascomycetes. Lichenologist 30: 103-120.

- Etayo, J. & Diederich, P. 2000. *Echinodiscus lesdainii* gen. et comb. nov., a new name for *Phacopsis lesdainii* (Leotiales). Bull. Soc. Nat. Luxemb. 100: 63-66.
- Etayo, J. & Navarro-Rosinés, P. 2008. Una combinación y tres especies nuevas de *Lichenochora* (Phyllachorales, ascomicetes liquenícolas), y notas adicionales para el género. Revista Catalana de Micología 30: 27-44.
- Etayo, J. & Sancho, L.G. 2008. Hongos liquenícolas del sur de Sudamérica, especialmente de Isla Navarino (Chile). Biblioth. Lichenol. 98: 1-302.
- Etayo, J. 1991. *Dactylospora microspora* spec. nov., nuevo hongo liquenícola de la flora española. Candollea 46: 391-393.
- Faegri, K. 1938. Trekk av Lichina-artenes utbredelse i Norden. Nytt Mag. Naturvid. 78: 141-151.
- Faegri, K. 1952. Om utbredelsen av *Siphula ceratites* i Norden. Blyttia 10: 77-87.
- Falk, H.C. 1874. Om östra Blekinges lafflora. Akademisk avhandling. Carlskrona 1874.
- Faurel, L. & Schotter, G. 1954. Remarques à propos du *Pleolecis geophana* (Nyl.) Clements. Bull. Soc. Hist. Nat. Afrique du Nord 45: 126-133.
- Feige, G.B., Posner, B. & Geyer, M. 1987. Zur Chemotaxonomie von *Umbilicaria* sect. *Anthracinae*. Herzogia 7: 649-674.
- Feurerer, T. & Thell, A. 2002. *Parmelia ernstiae* – a new macrolichen from Germany. Mitt. Inst. Allg. Bot. Hamburg 30-32: 49-60.
- Feurerer, T. 1978. Zur Kenntnis der Flechtengattung *Rhizocarpon* in Bayern. Ber. Bayer. Bot. Ges. 49: 59-135.
- Feurerer, T. 1991. Revision der europäischen Arten der Flechtengattung *Rhizocarpon* mit nichtgelben Lager und vielzelligen sporen. Biblioth. Lichenol. 39: 1-218.
- Fletcher, A. 1975a. Key for the identification of British marine and maritime lichens. II. Calcareous and terricolous species. Lichenologist 7: 73-115.
- Fletcher, A. 1975b. Key for the identification of British marine and maritime lichens. I. Siliceous rocky shore species. Lichenologist 7: 1-52.
- Flörke, H.G. 1810. Einige anmerkungen zu Hrñ Schleicher's Lecideen. Neues J. Botanik 4: 20-56.
- Forssell, K.B.J. 1885a. Beiträge zur Kenntnis der Anatomie und Systematik der Gloeolichenen. Nova Acta Reg. Soc. Sci. Upsal. ser. 3, 13: 1-118.
- Forssell, K.B.J. 1885b. Die anatomischen Verhältnisse und die phylogenetische Entwicklung der *Lecanora granatina* Sommerf. Bot. Centralblatt 22: 1-8.
- Foucard, T. & Nordin, A. 1999. *Buellia arborea*, an overlooked sorediate lichen on wood in Sweden. Graphis Scripta 10: 53-58.
- Foucard, T. & Thor, G. 1996. *Gyalidea praetermissa*, a new lichen from Sweden. Lichenologist 28: 101-104.
- Foucard, T. 1992. Notes on the corticolous *Arthopyrenia*-species in Sweden. Graphis Scripta 4: 49-60.
- Foucard, T. 2001. Svenska skorplavar. Interpublishing Stockholm. 392 pp.
- Foucard, T., Moberg, R. & Nordin, A. 2002. *Buellia*. In: Ahti et al. (eds), Nordic Lichen Flora 2: 11-25, 70-71.
- Fox, A.F. & Scannell, M.J.P. 2000. Isaac Carroll (1828-1880): a catalogue of lichens collected in Scandinavia housed in the Herbarium, National botanic Gardens, Dublin. Glasra 4: 63-84.
- Fredriksson, C.-J. & Thor, G. 2007. The search for *Umbilicaria subglabra* at Lybergsgnupen, Dalarna, Sweden. Graphis Scripta 19: 58-64.
- Frey, E. 1933. Cladoniaceae, Umbilicariaceae. Rabenhorst's Krypt.-Fl., ed. 2, 9, 4(1): 1-426.

- Frey, E. 1963. Beiträge zu einer Lichenenflora der Schweiz II. III. Die Familie Physciaceae. Ber. Schweiz. Bot. Ges. 73: 389-503.
- Friedl, T. 1987a. Thallus development and phycobionts of the parasitic lichen *Diploschistes muscorum*. *Lichenologist* 19: 183-191.
- Friedl, T. 1987b. Aspects of thallus development in the parasitic lichen *Diploschistes muscorum*. *Biblioth. Lichenol.* 25: 95-97.
- Fries, T.M. 1856. *Observationes Lichenologicae*. Öfvers. K. Vetensk.-Akad. Förhandl. 13: 123-130.
- Fries, T.M. 1858. *Monographia Stereocaulorum et Pilophorum*. Upsaliae, 76 pp.
- Fries, T.M. 1860. *Lichenes arctoi* (preprint). Uppsala 298 pp.
- Fries, T.M. 1861. *Lichenes arctoi*. *Nova Acta Reg. Soc. Sci. Upsal.* ser. 3, 3: 101-398.
- Fries, T.M. 1863. Nya laf-arter. *Bot. Notiser* 1963: 7-12.
- Fries, T.M. 1864. Bidrag till Skandinaviens laf-flora. Öfvers. K. Vetensk.-Akad. Förhandl. 1864: 269-277.
- Fries, T.M. 1865a. Nya Skandinaviska Laf-arter (no 21-30). *Bot. Notiser* 1865: 109-113.
- Fries, T.M. 1865b. Nya Skandinaviska Laf-arter (no 31-40). *Bot. Notiser* 1865: 181-184.
- Fries, T.M. 1866a. Nya Skandinaviska Laf-arter (no 41-50). *Bot. Notiser* 1866: 14-18.
- Fries, T.M. 1866b. Nya Skandinaviska Laf-arter (no 61-70). *Bot. Notiser* 1866: 150-152.
- Fries, T.M. 1867. *Lichenes Spitsbergenses*. K. Svenska Vetensk.-Akad. Handl. 7(2): 1-53.
- Fries, T.M. 1868a. Nya Skandinaviska Laf-arter (no 71-90). *Bot. Notiser* 1867: 105-110.
- Fries, T.M. 1868b. Nya Skandinaviska Laf-arter (no 91-100). *Bot. Notiser* 1867: 151-155.
- Fries, T.M. 1871. *Lichenographia Scandinavica I. Uppsaliae*: 1-324.
- Fries, T.M. 1874. *Lichenographia Scandinavica II. Uppsaliae*: 325-639.
- Fries, T.M. 1877. *Polyblastia Scandinavicae*. *Reg. Soc. Sci. Upsal.* 1877: 1-28.
- Fries, T.M. 1879. On the lichens collected during the English polar expedition 1875-76. *J. Linn. Soc., Bot.* 17: 346-370.
- Frisch, A. & Holien, H. 2018. *Arthonia toensbergii*, a new lichenicolous fungus on *Mycoblastus affinis* from the boreal rainforests in Norway. *Graphis Scripta* 30: 34-43.
- Frisch, A., Thor, G. Ertz, D. & Grube, M. 2014. The Arthonialean challenge: Restructuring Arthoniaceae. *Taxon* 63: 727-744.
- Frisch, A., Ohmura, Y., Ertz, D. & Thor, G. 2015. *Inoderma* and related genera in Arthoniaceae with elevated white pruinose pycnidia or sporodochia. *Lichenologist* 47: 233-256.
- Frisch, A., Palice, Z., Bendiksby, M., Tønsberg, T. Holien, H. 2020a. New and noteworthy lichens and lichenicolous fungi from Norway. *Graphis Scripta* 32: 1-47.
- Frisch, A., Stornes Moen, V., Grube, M. & Bendiksby, M. 2020b. Integrative taxonomy confirms three species of *Coniocarpon* (Arthoniaceae) in Norway. *MycoKeys* 62: 27-51.
- Fritz, Ö. & Hultengren, S. 1998. Örtlav, *Hypotrachyna revoluta*, funnen på ett stort antal lokaler i sydvästra Sverige. *Svensk Bot. Tidskr.* 92: 139-146.
- Fritz, Ö. & Malmqvist, A. 2010. Bokporlav - en hotad bokspecialist. *Svensk Bot. Tidskr.* 104: 75-84.
- Fritz, Ö. 1992. Jättelav, *Lobaria amplissima*, på nya lokaler i västra Småland. *Svensk Bot. Tidskr.* 86: 291-294.

- Fritz, Ö. 1998a. Nya och intressanta lavfynd från södra Sverige, särskilt Halland. *Graphis Scripta* 9: 11-14.
- Fritz, Ö. 1998b. *Buellia arnoldii* påträffad i Halland. *Graphis Scripta* 9: 43-44.
- Fritz, Ö. 2010. Pulver-ädellav *Catillochroma* (*Megalaria*) *pulverea* - en förbisedd fuktälskande skorplav i sydvästra Sverige. *Lavbulletinen* 2010(2): 107-110.
- Fritz, Ö. 2016a. Cinnoberfläck *Arthonia cinnabarina* funnen på Hallands Väderö i Skåne - men när gjordes upptäckten? *Lavbulletinen* 2016(1): 16-21.
- Fritz, Ö. 2016b. Storsporig päronlav *Mycoporum antecellens* funnen på en ny lokal i Halland. *Lavbulletinen* 2016(1): 22-25.
- Fritz, Ö., Malmqvist, A., Heilmann-Clausen, J., Arup, U., Ekman, S. & Niklasson, M. 2014. Bjurkärr - lavar och svampar i en unik småländsk bokskog. *Svensk Bot. Tidskr.* 108: 188-204.
- Fryday, A.M. & Arcadia, L. 2012. Typification and a revised basionym for *Fuscidea lygea*, and a new name for *Amandinea lecideina*. *Graphis Scripta* 24: 40-44.
- Fryday, A.M. & Coppins, B.J. 1996. A new crustose *Stereocaulon* from the mountains of Scotland and Wales. *Lichenologist* 28: 513-519.
- Fryday, A.M. & Coppins, B.J. 2004. A reassessment of the genera *Chromatochlamys* and *Thelenella*, and a new species of *Strigula* from the British Isles. *Lichenologist* 36: 89-95.
- Fryday, A.M. & Coppins, B.J. 2008. *Ameliella*, a new genus of lichen-forming fungi from north-west Europe and western Canada. *Lichenologist* 40: 387-397.
- Fryday, A.M. & Coppins, B.J. 2012. New taxa, reports, and names of lichenized and lichenicolous fungi, mainly from the Scottish Highlands. *Lichenologist* 44: 723-737.
- Fryday, A.M. 2000. On *Rhizocarpon obscuratum* (Ach.) Massal., with notes on some related species in the British Isles. *Lichenologist* 32: 207-224.
- Fryday, A.M. 2002. A revision of the species of the *Rhizocarpon hochstetteri* group occurring in the British Isles. *Lichenologist* 34: 451-477.
- Fryday, A.M. 2004. A new species of *Fuscopannaria* with a green photobiont, and other taxonomic innovations and new records of lichenized-fungi from Alaska. *Bryologist* 107: 173-179.
- Fryday, A.M. 2005. The genus *Porpidia* in northern and western Europe, with special emphasis on collections from the British Isles. *Lichenologist* 37: 1-35.
- Fryday, A.M. 2009. *Lecidea globulispora* is the correct name for *Lecidea antiloga*. *Graphis Scripta* 21: 57-60.
- Fryday, A.M., Printzen, C. & Ekman, S. 2014. *Bryobilimbia*, a new generic name for *Lecidea hypnorum* and closely related species. *Lichenologist* 46: 25-37.
- Fryday, A.M., Orange, A., Ahti, T., Øvstedal, D.O. & Crabtree, D.E. 2019. An annotated checklist of lichen-forming and lichenicolous fungi reported from the Falkland Islands (Islas Malvinas). *Glalia* 8: 1-100.
- Fröberg, L. 1988. Calcicolous lichens and their ecological preferences on the Great Alvar of Öland. *Acta Phytogeogr. Suecica* 76: 47-52.
- Fröberg, L. 1989. The calcicolous lichens on the great alvar of Öland, Sweden. Diss., Lund, 109 pp.
- Fröberg, L. 1997. Variation in the *Lecanora dispersa* group in South Sweden. *Symb. Bot. Upsal.* 32(1): 29-34.
- Frödén, P. & Thell, A. 2010. Liten getlav *Flavoparmelia soledians* ny för Norden. *Lavbulletinen* 2010(3): 163-165.

- Gaarder, G. & Jordal, J.B. 2016. Fattig boreonemoral regnskog og andre naturtyper påvist i Hordaland 2014-2015. Miljøfaglig utredning Rapport 2016-03, 36 s. + vedlegg.
- Gaarder, G. & Tønsberg, T. 2010. *Buellia violaceofusca* new to Norway. *Graphis Scripta* 22: 31.
- Galloway, D.J. & Aptroot, A. 1995. Bipolar lichens: A review. *Crypt. Bot.* 5: 184-191.
- Garty, J. & Galun, M. 1974. Selectivity in lichen-substrate relationships. *Flora* 163: 530-534.
- Gasparian, A., Sipman, H.J.M. & Lücking, R. 2017. *Ramalina europaea* and *R. labiosorediata*, two new species of the *R. pollinaria* group (Ascomycota: Ramalinaceae), and new typifications for *Lichen pollinarius* and *L. squarrosus*. *Lichenologist* 49: 301-319.
- Gauslaa, Y. & Timdal, E. 2020. *Usnea rubicunda* new to Scandinavia. *Graphis Scripta* 32: 110-119.
- Gauslaa, Y. 1997. Population structure of the epiphytic lichen *Usnea longissima* in a boreal *Picea abies* canopy. *Lichenologist* 29: 455-469.
- Gauslaa, Y. 2000. *Punctelia ulophylla* new to Norway. *Graphis Scripta* 12: 12-14.
- Gaya, E. 2009. Taxonomical revision on the *Caloplaca saxicola* group (Teloschistaceae). *Biblioth. Lichenol.* 101: 1-191.
- Gelting, P. 1954. The *Rhizocarpon* species with peltate areoles occurring in Europe and North America. *Bot. Tidsskr.* 51: 71-92.
- Gerasimova, J.V., Urbanavichene, I.N., Urbanavichus, G.P. & Beck, A. 2021. Morphological and phylogenetic analyses of *Toniniopsis subincompta* s. lat. (Ramalinaceae, Lecanorales) in Eurasia. *Lichenologist* 53: 171-183.
- Gierl, C. & Kalb, K. 1993. Die Flechtengattung *Dibaeis*. *Herzogia* 9: 593-645.
- Gilbert, O.L. & Coppins, B.J. 1992. The lichens of *Caenlochan*, *Angus*. *Lichenologist* 24: 143-163.
- Gilbert, O.L. 1988. Studies on the destruction of *Lecanora conizaeoides* by the lichenicolous fungus *Athelia arachnoidea*. *Lichenologist* 20: 183-190.
- Gilbert, O.L. 2004. The phenology of *Sarcosagium campestre* observed over three years. *Lichenologist* 36: 159-161.
- Gilbert, O.L., Henderson, A. & James, P.W. 1981. Citrine-green taxa in the genus *Candelariella*. *Lichenologist* 13: 249-251.
- Gilbert, O.L., Coppins, B.J. & Fox, B.W. 1988. The lichen flora of Ben Lawers. *Lichenologist* 20: 201-243.
- Gilenstam, G. 1969. Studies in the lichen genus *Conotrema*. *Arkiv Bot. ser. 2, 7(2)*: 149-179.
- Giralt Esteve, M. 1986. Flora i vegetació dels líquens epífits del Tarragonés. Aplicació al problema de la contaminació atmosfèrica. Fundació "Antoni i Vicenç Mestres Jané": 1-170 .
- Giralt, M., Nimis, P.L. & Poelt, J. 1992. Studien über den Formenkreis von *Caloplaca flavorubescens* in Europa. *Cryptogamic, Bryol. Lichénol.* 13: 261-273.
- Giralt, M., Poelt, J. & Suanjak, M. 1993. Die Flechtengattung *Veizdaea* mit *Veizdaea cobria* spec. nov. *Herzogia* 9: 715-724.
- Giralt, M., Tønsberg, T. & Holien, H. 2002. Notes on the misunderstood *Buellia dives*. *Lichenologist* 34: 1-5.
- Gjerlaug, H.C. 1987. Bidrag til kunnskapen om makrolavfloraen i Hedmark fylke, Sør-Norge. *Blyttia* 45: 69-73.
- Gjerlaug, H.C. 1989. *Cladonia imbricarica*, new to continental Europe. *Lichenologist* 21: 178-179.
- Goffinet, B. & Hastings, R.I. 1995. Two new sorediate taxa of *Peltigera*. *Lichenologist* 27: 43-58.
- Golubkova, N.S. 1981. Konspekt Flori Lishainikov Mongolskoi Narodnoi Respubliki. Leningrad.

- Gowan, S.P. & Ahti, T. 1993. Status of the lichen genus *Porpidia* in eastern Fennoscandia. *Ann. Bot. Fennici* 30: 53-75.
- Gowan, S.P. 1989. The lichen genus *Porpidia* (Porpidiaceae) in North America. *Bryologist* 92: 25-59.
- Gowan, S.P. 1990. *Cliostomum* in North America and Europe. *Mycologia* 82: 766-771.
- Goward, T. 1986. *Brodoa*, a new lichen genus in the Parmeliaceae. *Bryologist* 89: 219-223.
- Granbo, J. 1999. *Klot-tegellav Psora globifera* - en dalsländsk raritet. *Svensk Bot. Tidskr.* 93: 201-212.
- Granbo, J. 2002. *Glanstapel* - en sällsynt istidsrelik vid Höga Kusten. *Svensk Bot. Tidskr.* 96: 130-137.
- Grube, M. & de los Rios, A. 2001. Observations on *Biatoropsis usnearum*, a lichenicolous heterobasidiomycete, and other gall-forming lichenicolous fungi, using different microscopical techniques. *Mycol. Res.* 105: 1116-1122.
- Grube, M. & Giralt, M. 1996. Studies on some species of *Arthothelium* occurring in the western Mediterranean. *Lichenologist* 28: 15-36.
- Grube, M. & Hafellner, J. 1990. Studien an flechtenbewohnenden Pilzen der Sammelgattung *Didymella*. *Nova Hedwigia* 51: 283-360.
- Grube, M. & Matzer, M. 1997. Taxonomic concept of lichenicolous *Arthonia* species. *Biblioth. Lichenol.* 68: 1-17.
- Grube, M. & Ryan, B.D. 2002. *Collemopsisidium*. In: T.H. Nash et al. (eds), *Lichen flora of the Greater Sonoran Desert Region 1*: 162-164.
- Grube, M. 2002a. A note on *Pachyascus lapponicus*, an enigmatic lichen from Northern Sweden. *Graphis Scripta* 13: 17-21.
- Grube, M. 2002b. The Seventh Mycological Congress (IMC 7) from lichenological perspective. *IAL Newsletter* 35(2): 52-53.
- Grube, M. 2005. *Frigidopyrenia* - a new genus for a peculiar subarctic lichen, with notes on similar taxa. *Phyton* 45: 305-318.
- Grube, M., Matzer, M. & Hafellner, J. 1995. A preliminary account of the lichenicolous *Arthonia* species with reddish, K⁺ reactive pigments. *Lichenologist* 27: 25-42.
- Grube, M., Baloch, E. & Arup, U. 2004. A phylogenetic study of the *Lecanora rupicola* group (Lecanoraceae). *Mycol. Res.* 108: 506-514.
- Grummann, V.J. 1960. Die Cecidien auf Lichenen. *Bot. Jahrb. Syst.* 80: 101-144.
- Guderley, R. & Lumbsch, H.T. 1999. Notes on multispored species of *Lecanora sensu stricto*. *Lichenologist* 31: 197-203.
- Gueidan, C. & Roux, C. 2007. *Verrucaria calciceda* DC. Néotypification, description et transfert dans le genre *Bagliettoa*. *Bull. Soc. Linn. Provence* 58: 181-194.
- Gueidan, C., Roux, C. & Lutzoni, F. 2007. Using a multigene phylogenetic analysis to assess generic delineation and character evolution in *Verrucariaceae*. *Mycol. Res.* 111: 1145-1168.
- Gueidan, C. et al. 2009. Generic classification of the *Verrucariaceae* based on molecular and morphological evidence: recent progress and remaining challenges. *Taxon* 58: 184-208.
- Gustafsson, A. & Milberg, P. 2008. Changes in the abundance of *Lobaria pulmonaria* in south-eastern Sweden from 1994 to 2007. *Graphis Scripta* 20: 44-51.
- Gustavsson, H.-E. 1989. *Lavfloran i Älmås, Abilds socken*. Inf. från Länsstyrelsen i Hallands län, meddel nr 1989:3.
- Gustavsson, H.-E. 1995. *Lavfloran på bok i Ödesgärdet i västra Småland*. *Svensk Bot. Tidskr.* 89: 65-82.

- Guzow-Krzeminska, B., Lubek, A., Malicek, J., Tønsgaard, T., Oset, M. & Kukwa, M. 2017. *Lecanora stanislai*, a new, sterile, usnic acid containing lichen species from Eurasia and North America. *Phytotaxa* 329: 201-211.
- Guzow-Krzeminska, B., Sérusiaux, E., van den Boom, P.P.G., Brand, A.M., Launis, A., Lubek, A. & Kukwa, M. 2019. Understanding the evolution of phenotypical characters in the *Micarea prasina* group (Pilcarpaceae) and descriptions of six new species within the group. *MvcoKeys* 57: 1-30.
- Gyelnik, V. 1940. Lichinaceae, Heppiaceae & Pannariaceae. Rabenhorst's Krypt.-Fl., ed. 2, 9, 2, 2 (1): 1-272.
- Hafellner, J. & Calatayud, V. 1999. *Lichenostigma cosmopolites*, a common lichenicolous fungus on *Xanthoparmelia* species. *Mycotaxon* 72: 107-114.
- Hafellner, J. & Coppins, B.J. 2004. Appendix to Veldkamp, *Bilimbia* resurrected. *Lichenologist* 36: 195.
- Hafellner, J. & John, V. 2006. Über Funde lichenicoler nicht-lichenisierter Pilze in der Türkei, mit einer Synopsis der bisher im Land nachgewiesenen Taxa. *Herzogia* 19: 155-176.
- Hafellner, J. & Kalb, K. 1995. Studies in Trichotheliales ordo novus. *Biblioth. Lichenol.* 57: 161-186.
- Hafellner, J. & Mayrhofer, H. 1977. *Rhizocarpon malenconianum* (Llimona & Werner) comb. nov. *Herzogia* 4: 345-350.
- Hafellner, J. & Obermayer, W. 1995. *Cercidospora trypteliza* und weitere lichenicole Ascomyceten aus Arthrorhaphis. *Cryptogamie, Bryol. Lichénol.* 16: 177-190.
- Hafellner, J. & Poelt, J. 1980. Der "Flechtenparasit" *Buellia pulverulenta* - eine bleibend interne parasitische Flechte. *Phyton* 20: 129-133.
- Hafellner, J. & Sancho, L.G. 1990. Über einige lichenicole Pilze und Flechten aus den Gebirgen Zentralspaniens und den Ostalpen. *Herzogia* 8: 363-382.
- Hafellner, J. & Türk, R. 1995. Über Funde lichenicoler Pilze und Flechten im Nationalpark Hohe Tauern (Kärntner Anteil, Österreich. *Carinthia* II 185/105: 599-635.
- Hafellner, J. & Türk, R. 2001. Die lichenisierten Pilze Österreichs - eine Checkliste der bisher nachgewiesenen Arten mit Verbreitungsangaben. *Stapfia* 76: 3-167.
- Hafellner, J. & Zimmermann, E. 2012. A lichenicolous species of *Pleospora* (Ascomycota) and a key to the fungi invading *Physcia* species. *Herzogia* 25: 47-59.
- Hafellner, J. 1978. *Catolechia* Flotow ex Massalongo emend. *Körper und Epilichen* Clements ex Hafellner - zwei nahe verwandte Flechtengattungen. *Nova Hedwigia* 30: 673-695.
- Hafellner, J. 1979. *Karschia*. *Beih. Nova Hedwigia* 62: 1-248.
- Hafellner, J. 1982. Studien über lichenicole Pilze und Flechten II. *Herzogia* 6: 299-308.
- Hafellner, J. 1984. Studien in Richtung einer natürlichen Gliederung der Sammelfamilien Lecanoraceae und Lecideaceae. *Beih. Nova Hedwigia* 79: 241-371.
- Hafellner, J. 1985a. Studien über lichenicole Pilze und Flechten III. Die Gattung *Roselliniella* Vainio emend. *Haf.* (Ascomycotina, Dothideales). *Herzogia* 7: 145-162.
- Hafellner, J. 1985b. Studien über lichenicole Pilze und Flechten IV. Die auf *Brigantiaea*-Arten beobachteten Ascomyceten. *Herzogia* 7: 163-180.
- Hafellner, J. 1987a. Studien über lichenicole Pilze und Flechten V. Über die Gattung *Phacopsis* Tul. emend. *Körper*. *Herzogia* 7: 343-352.
- Hafellner, J. 1987b. Studien über lichenicole Pilze und Flechten VI. Ein verändertes Gattungskonzept für *Cercidospora*. *Herzogia* 7: 353-365.
- Hafellner, J. 1989. Studien über lichenicole Pilze und Flechten VII. Über die neue Gattung *Lichenochora*. *Nova Hedwigia* 48: 357-370.

- Hafellner, J. 1991. Die Gattung *Aspicilia*, ihre Ableitungen nebst Bemerkungen über cryptolecanorine Ascocarpororganisation bei anderen Genera der Lecanorales. *Acta Bot. Malacit.* 16: 133-140.
- Hafellner, J. 1993a. Die Gattung *Pyrrhospora* in Europa. *Herzogia* 9: 725-747.
- Hafellner, J. 1993b. Über Funde von lichenicolen Pilzen und Flechten im südlichen Norwegen. *Herzogia* 9: 749-768.
- Hafellner, J. 1993c. *Acarospora* und *Pleopsisidium* - zwei lichenisierte Ascomycetgattungen (Lecanorales) mit zahlreichen Konvergenzen. *Nova Hedwigia* 56: 281-305.
- Hafellner, J. 1994a. On *Biatoridium*, a resurrected genus of lichenized fungi. *Acta Bot. Fenn.* 150: 39-46.
- Hafellner, J. 1994b. Beiträge zu einem Prodrömus der lichenicolen Pilze Österreicher und angrenzender Gebiete. *Herzogia* 10: 1-28.
- Hafellner, J. 1994c. Über Funde lichenicoler Pilze und Flechten auf Korsika (Frankreich). *Bull. Soc. Linn. Provence* 45: 219-234.
- Hafellner, J. 1997a. A world monograph of *Brigantiaea* (Lecanorales). *Symb. Bot. Upsal.* 32(1): 35-74.
- Hafellner, J. 1997b. Materialien zur Roten Liste gefährdeter Flechten Österreicher. *Fritschiana* 12: 1-32.
- Hafellner, J. 1998. Studien an lichenicolen Pilzen und Flechten 10. *Arthophacopsis*, eine neue Gattung lichenicoler Ascomyceten (Arthoniales). *Cryptogamie, Bryol. Lichénol.* 19: 155-168.
- Hafellner, J. 2004a. A further evolutionary lineage to lichenicolous growth in *Physciaceae*. *Biblioth. Lichenol.* 88: 175-186.
- Hafellner, J. 2004b. A revision of *Maronella larcina* and *Piccolia ochrophora*. *Symb. Bot. Upsal.* 34(1): 87-96.
- Hafellner, J. 2004c. Notes on *Scoliciosporum intrusum*. *Fritschiana* 49: 29-41.
- Hafellner, J. 2006. Lecideoid lecanoralean ascomycetes invading *Rhizocarpon* subgen. *Rhizocarpon* taxa, with special emphasis on cryptothalline species. *Fritschiana* 52: 31-48.
- Hafellner, J. 2009. *Phacothecium* resurrected and the new genus *Placographa* (Arthoniaceae) proposed. *Biblioth. Lichenol.* 100: 85-121.
- Hafellner, J. 2011. *Halospora* resurrected and segregated from *Merismatium*. *Biblioth. Lichenol.* 106: 75-93.
- Hafellner, J. 2019. A reinvestigation of *Microthelia umbilicariae* results in a contribution to the species diversity in *Endococcus*. *Fritschiana* 94: 1-23.
- Hafellner, J., Mayrhofer, H. & Poelt, J. 1979. Die Gattungen der Flechtenfamilie *Physciaceae*. *Herzogia* 5: 39-79.
- Hafellner, J., Obermayer, W. & Tretsch, M. 2014. *Miriqidica invadens*, an obligate youth parasite on *Sporastatia*, with remarks and a key to species of the *M. griseoatra* group. *Lichenologist* 46: 303-331.
- Hagström, M. & Henriksson, J. 2011. *Dvärgskägglav Usnea glabrata* - ett glädjande lappländskt nyfynd. *Lavbulletinen* 2011(2): 69-71.
- Hagström, M. & Wik, O. 2015. Fattig och rik-lavfloran på 20 år gammal slagg. *Lavbulletinen* 2015 (1): 14-19.
- Hagström, M. 2008. Gamla kyrkor - kan det vara nåt? *Lavbulletinen* 2008(2): 64.
- Hagström, M. 2012a. Lavinventering inom ramen för åtgärdsprogram för hotade arter i Östergötland 2012. *Lavbulletinen* 2012(2): 36-43.
- Hagström, M. 2012b. Rara ruderater och urban skönhet - miljöer utanför naturbegreppet kan vara viktiga för smalt nischade lavar. *Lavbulletinen* 2012 (1): 30-31.

- Hagström, M. 2013. Småfruktigt blågryn *Gregorella humida* - inte försvunnen från landet längre. *Lavbulletinen* 2013(1): 18-19.
- Hagström, M. 2014. Inventering av småfruktigt blågryn *Gregorella humida* och blågryn *Moelleropsis nebulosa* kring Barnarp i Jönköpings kommun. *Lavbulletinen* 2014(1): 4-10.
- Hagström, M. 2016. Slagghögen och *Lecidea vallicola*. *Lavbulletinen* 2015(2): 48-49.
- Hakulinen, R. & Ulvinen, T. 1966. *Asahinea chrysantha* in Fennoscandia. Reports from the Kevo subarctic research station 3: 101-105.
- Hakulinen, R. 1954. Die Flechtengattung *Candelariella*. *Ann. Bot. Soc. Zool.-Bot. Fenn. Vanamo* 27(3): 1-127.
- Hakulinen, R. 1962a. Die Flechtengattung *Umbilicaria* in Ostfennoskandien und angrenzenden Teilen Norwegens. *Ann. Bot. Soc. Zool.-Bot. Fenn. Vanamo* 32(6): 1-87.
- Hakulinen, R. 1962b. Die Flechtengattung *Umbilicaria* in Ostfennoskandien und angrenzenden Teilen Norwegens. *Ann. Bot. Soc. Zool.-Bot. Fenn. Vanamo* 32(6): 1-87.
- Hakulinen, R. 1962c. Über Verbreitung einiger *Cetraria*-Arten in Ostfennoskandien. *Arch. Soc. Zool. Bot. Fenn.* 17: 1-4.
- Hakulinen, R. 1962d. Über *Thamnolia vermicularis* (Sw.) Schaer. in Ostfennoskandien. *Arch. Soc. Zool. Bot. Fenn.* 17: 133-138.
- Hakulinen, R. 1965. Über die Verbreitung und das Vorkommen einiger nördlichen Erd- und Steinflechten in Ostfennoskandien. *Aquilo Bot.* 1: 22-66.
- Hakulinen, R. 1966. Über einige nördliche Flechtenarten im südöstlichen Fennoskandien. *Ann. Bot. Fennici* 03: 180-198.
- Hakulinen, R. 1968. *Dactylina ramulosa* (Hook.) Tuck., eine für Fennoskandien neue Flechtenart. *Ann. Bot. Fennici* 05: 112-113.
- Halda, J. 2003. A taxonomic study of the calcicolous endolithic species of the genus *Verrucaria* with the lid-like and radiately involucrellum. *Acta Musei Richnoviensis, Sect. natur.* 10(1): 1-148.
- Hale, M.E. & Ahti, T. 1986. An earlier name for *Parmotrema perlatum*. *Taxon* 35: 133-134.
- Hale, M.E. 1965a. Studies on the *Parmelia borreri* group. *Svensk Bot. Tidskr.* 59: 37-48.
- Hale, M.E. 1965b. A monograph of *Parmelia* subgenus *Amphigymnia*. *Contr. U. S. Natnl. Herb.* 36: 193-358.
- Hale, M.E. 1968. A synopsis of the lichen genus *Pseudevernia*. *Bryologist* 71: 1-11.
- Hale, M.E. 1971. New *Parmeliae* from Africa. *Phytologia* 22: 94-96.
- Hale, M.E. 1976a. A monograph of the lichen genus *Parmelina*. *Smithsonian Contr. Bot.* 33: 1-6.
- Hale, M.E. 1976b. A monograph of the lichen genus *Pseudoparmelia*. *Smithsonian Contr. Bot.* 31: 1-62.
- Hale, M.E. 1986a. *Flavoparmelia*, a new genus in the lichen family *Parmeliaceae*. *Mycotaxon* 025: 603-605.
- Hale, M.E. 1986b. *Arctoparmelia*, a new genus in the *Parmeliaceae*. *Mycotaxon* 025: 251-254.
- Hale, M.E. 1987. A monograph of the lichen genus *Parmelia sensu stricto*. *Smithsonian Contr. Bot.* 66: 1-54.
- Hallberg, H.P. 1971. Vegetation auf den Schalenablagerungen in Bohuslän, Schweden. *Acta Phytogeogr. Succica* 56.
- Hallingbäck, T. & Olsson, K. 1987. *Lunglavens tillbakagång i Skåne*. *Svensk Bot. Tidskr.* 81: 103-108.
- Hallingbäck, T. & Thor, G. 1988. *Jättelav, Lobaria amplissima*, i Sverige. *Svensk Bot. Tidskr.* 82: 125-139.
- Hallingbäck, T. 1986. *Lunglavarna, Lobaria*, på reträtt i Sverige. *Svensk Bot. Tidskr.* 80: 373-381.

- Hallingbäck, T. 1989. Occurrence and ecology of the lichen *Lobaria scrobiculata* in southern Sweden. *Lichenologist* 21: 331-341.
- Hallingbäck, T. 2003. Hårig skrovellav – en raritet i den boreala regnskogen. *Svensk Bot. Tidskr.* 97: 26-32.
- Halonen, P. & Puolasmaa, A. 1995. The lichen genus *Usnea* in Eastern Fennoscandia. I. *Usnea hirta*. *Ann. Bot. Fennici* 32: 127-135.
- Halonen, P. 1990. Some interesting notes on the Caliciales of Central Finland. *Graphis Scripta* 3: 28-31.
- Halonen, P. 1997. The lichen genus *Usnea* in eastern Fennoscandia. II. *Usnea longissima*. *Graphis Scripta* 8: 51-56.
- Halonen, P., Tuukki, E., Puolasmaa, A. & Kaipainen, H. 1997. Threatened species in Finland: *Collema curtisporum*, *Collema nigrescens*, *Collema multipartitum*. *Suomen Impäristö* 73: 1-36.
- Halonen, P., Myllys, L., Ahti, T. & Petrova, O.V. 1999. The lichen genus *Usnea* in East Fennoscandia. III. the shrubby species. *Ann. Bot. Fennici* 36: 235-256.
- Halonen, P., Myllys, L., Velmala, S. & Hyvärinen, H. 2009. *Gowardia* (Parmeliaceae) — a new alectorioid lichen genus with two species. *Bryologist* 112: 138–146.
- Halvorsen, R. & Bendiksen, E. 1982. The chemical variation of *Pseudevernia furfuracea* in Norway. *Nord. J. Bot.* 2: 371-380.
- Hanko, B. 1983. Die Chemotypen der Flechtengattung *Pertusaria* in Europa. *Biblioth. Lichenol.* 19: 1-297.
- Hanko, B., Leuckert, C. & Ahti, T. 1985. Beiträge zur chemotaxonomie der Gattung *Ochrolechia* in Europa. *Nova Hedwigia* 42: 165-199.
- Hansen, E.S. & Ahti, T. 2011. A contribution to the lichen genus *Cladonia* in Greenland and new records from other northern regions. *Graphis Scripta* 23: 56-64.
- Hansen, E.S. & Alstrup, V. 1995. The lichenicolous fungi on *Cladonia* subgenus *Cladina* in Greenland. *Graphis Scripta* 7: 33-38.
- Hansen, E.S., Poelt, J. & Søchting, U. 1987. Die Flechtengattung *Caloplaca* in Grönland. *Meddelelser om Grönland, Bioscience* 25: 1-52.
- Hansson, P. 2020. *Candelariella arctica* - ny art för Sverige funnen på Holmön. *Lavbulletinen* 2019(2): 40-49.
- Harada, H. 1993. A taxonomic study on *Dermatocarpon* and its allied genera in Japan. *Nat. Hist. Res. Chiba* 2: 113-152.
- Harmaja, H. 1995. *Fellhanera subtilis* found in Finland. *Graphis Scripta* 7: 85-86.
- Harmaja, H. 2008. *Fellhaneropsis myrtillicola*, a new genus and species for Finland. *Graphis Scripta* 20: 52-55.
- Harris, R.C. & Buck, W.R. 1978. Lichens of the Mackinac Strait region. II. *Candelariella*. *The Michigan Botanist* 17: 155-162.
- Harris, R.C. & Knudsen, K. 2006. The genus *Myriospora*. *Opuscula Philolichenum* 3: 1-4.
- Harris, R.C. 1973. The corticolous pyrenolichens of the Great Lakes region. *The Michigan Botanist* 12: 3-68.
- Harris, R.C. 1975. A taxonomic revision of the genus *Arthopyrenia* in North America. Dissertation, Michigan State University. 288 pp.
- Harris, R.C. 1985. Lichens of the New Jersey Pine Barrens collected on the seventh A. Leroy Andrews Foray, 1982. *Evansia* 02: 44-47.
- Harris, R.C. 1995. More Florida lichens. New York Botanical Garden, 192 pp.
- Harris, R.C. 2004. A preliminary list of the lichens of New York. *Opuscula Philolichenum* 1: 55-74.
- Hasenhül, G. & Poelt, J. 1978. Über die Brutkörper bei der Flechtengattung *Umbilicaria*. *Ber. Deutsch. Bot. Ges.* 91: 275-296.

- Hassel, K. & Holien, H. 2007. Biologisk kartlegging av fossesprutsoner i kommunene Høylandet, Stjørdal og Verdal i Nord-Trøndelag. Rapport botanisk serie 2007-2: 1-34.
- Hasselrot, T.E. 1935. Några svenska fynd av *Gyrophora fuliginosa* Havås. Svensk Bot. Tidskr. 29: 306-318.
- Hasselrot, T.E. 1941. Till kännedomen om några nordiska Umbilicariaceers utbredning. Acta Phytogeogr. Suecica 15: 1-73.
- Hasselrot, T.E. 1942a. Nya svenska fynd av *Xanthoria lobulata* (Flk.) B. de Lesd. Bot. Notiser 1942: 93-94.
- Hasselrot, T.E. 1942b. Till kännedomen om busk- och bladlavfloran i sydligaste Norge. Bot. Notiser 1942: 279-307.
- Hasselrot, T.E. 1943. Lavar från Hälsingland och Härjedalen, samlade av M. Östman. Arkiv Bot. 30A (13): 1-80.
- Hasselrot, T.E. 1945a. Fynd av sällsynta eller förbisedda lavar i Västergötland. Svensk Bot. Tidskr. 39: 125-136.
- Hasselrot, T.E. 1945b. *Parmelia dubia* (Wulf.) Schaer. funnen i Sverige. Svensk Bot. Tidskr. 39: 238-241.
- Hasselrot, T.E. 1953a. Nordliga lavar i Syd- och Mellansverige. Acta Phytogeogr. Suecica 33: 1-200.
- Hasselrot, T.E. 1953b. Ett litet bidrag till Ålands lavflora. Svensk Bot. Tidskr. 47: 531-538.
- Haugan, R. & Timdal, E. 1992. *Squamarina scopulorum*, a new lichen species from Norway. Nord. J. Bot. 12: 357-360.
- Haugan, R. & Timdal, E. 1994. *Tephromela perlata* and *T. talayana*, with notes on the *T. aglaea*-complex. Graphis Scripta 6: 17-26.
- Haugan, R. & Timdal, E. 2018. *Lecidea toensbergii*, the first described sorediate species in *Lecidea sensu stricto*. Graphis Scripta 30: 51-58.
- Haugan, R. & Timdal, E. 2019a. The morphologically cryptic lichen species *Parmelia ernstiae* and *P. serrana* new to Norway. Graphis Scripta 31: 5-13.
- Haugan, R. & Timdal, E. 2019b. *Peltigera wulingensis* new to Europe. Graphis Scripta 31: 47-53.
- Haugan, R. & Tønsberg, T. 2018. *Lecidella varanegrana* sp. nov. from the Varanger Peninsula, northernmost Norway. Graphis Scripta 30: 149-154.
- Haugan, R. 1990. *Rhizocarpon dinothetes* new to Scandinavia. Graphis Scripta 3: 25.
- Haugan, R. 1994. *Lecanora lecanoricola* and *Phaeocalicium praecedens* new to Norway. Graphis Scripta 6: 45-46.
- Haugan, R. 1995. *Collema conglomeratum* new to Fennoscandia. Graphis Scripta 7: 94-96.
- Havaas, J. 1909. Beiträge zur Kenntnis der westnorwegischen Flechtenflora. Bergens Mus. Aarbog 1909(1): 1-36.
- Havaas, J. 1918. Lichenvegetationen ved Mosterhavn. Bergens Mus. Aarbog, Naturvid. 1917-18(2): 1-39.
- Havaas, J. 1935. Om lichenvegetasjonen på Stadlandet. Bergens Mus. Aarbog, Naturvid. 1935 (2): 1-43.
- Havaas, J. 1954. Notes on the lichen flora of the mountains Steinsäterhorgi and Smöreggfjellet in Granvin. Hordaland (W Norway). Univ. Bergen Årbok 1949, Naturvid. rekke 12: 1-20.
- Hawksworth, D.L. & Atienza, V. 1994. The lichenicolous fungi described by Veli Räsänen. Acta Bot. Fenn. 150: 47-55.
- Hawksworth, D.L. & Chapman, D.S. 1971. *Pseudevernia furfuracea* and its chemical races in the British Isles. Lichenologist 5: 51-58.

- Hawksworth, D.L. & Cole, M.S. 2002. Intralichen, a new genus for lichenicolous 'Bispora' and 'Trimmatostroma' species. *Fungal Diversity* 11: 87-97.
- Hawksworth, D.L. & Diederich, P. 1988. A synopsis of the genus *Polycoccum*, with a key to accepted species. *Trans. British Mycol. Soc.* 90: 293-312.
- Hawksworth, D.L. & Dyko, B.J. 1979. Lichenodiplis and Vouauxiomyces: two new genera of lichenicolous Coelomycetes. *Lichenologist* 11: 51-61.
- Hawksworth, D.L. & Galloway, D.J. 1984. The identity of *Plectocarpon* Fee, and its implications for *Lichenomyces pseudocyphellaria* and the typification of *Sticta delisea*. *Lichenologist* 16: 85-89.
- Hawksworth, D.L. & Henrici, A. 2015. New resting places for *Laeticorticium quercinum* and *Marchandiobasidium aurantiacum*. *Field Mycology* 16: 16-17.
- Hawksworth, D.L. & Jones, D. 1981. *Sclerococcum sphaerale* obtained in pure culture. *Trans. British Mycol. Soc.* 77: 485-489.
- Hawksworth, D.L. & Miadlikowska, J. 1997. New species of lichenicolous fungi occurring on *Peltigera* in Ecuador and Europe. *Mycol. Res.* 101: 1127-1134.
- Hawksworth, D.L. & Minter, D.W. 1980. New and interesting microfungi from the 1978 Exeter forray. *Trans. British Mycol. Soc.* 74: 567-577.
- Hawksworth, D.L. & Pirozynski, K.A. 1977. The generic names *Paranectria* and *Paranectriella* and their synonyms. *Canad. J. Bot.* 55: 2555-2557.
- Hawksworth, D.L. & Poelt, J. 1986. Five additional genera of conidial lichen-forming fungi from Europe. *Pl. Syst. Evol.* 154: 195-211.
- Hawksworth, D.L. & Poelt, J. 1990. A second lichen-forming species of *Cheiromycina* from Austria. *Lichenologist* 22: 219-224.
- Hawksworth, D.L. & Punithalingam, E. 1973. New and interesting microfungi from Slapton, South Devonshire: Deuteromycotina. *Trans. British Mycol. Soc.* 61: 57-69.
- Hawksworth, D.L. & Santesson, R. 1988. *Skyttella*, a new genus for *Phacopsis mulleri* Willey (syn. *Agyrium flavescens* Rehm). *Graphis Scripta* 2: 33-37.
- Hawksworth, D.L. & Santesson, R. 1990. A revision of the lichenicolous fungi previously referred to *Phragmonaevia*. *Biblioth. Lichenol.* 38: 121-143.
- Hawksworth, D.L. & Sowter, F.A. 1969. Leistershire and Rutland lichens 1950-1969. *Trans. Leicester Lit. Philos. Soc.* 63: 50-61.
- Hawksworth, D.L. 1972. Regional studies in *Alectoria* (Lichenes) II. The British species. *Lichenologist* 5: 181-261.
- Hawksworth, D.L. 1975a. Notes on British lichenicolous fungi: 1. *Kew Bull.* 30: 183-203.
- Hawksworth, D.L. 1975b. A revision of lichenicolous fungi accepted by Keissler in *Coniothecium*. *Trans. British Mycol. Soc.* 65: 219-238.
- Hawksworth, D.L. 1976. Lichen chemotaxonomy. In Brown, D.H., Hawksworth, D.L. & Bailey, R.H., *Lichenology: Progress and Problems*: 139-184.
- Hawksworth, D.L. 1977a. Three new genera of lichenicolous fungi. *Bot. J. Linn. Soc.* 75: 195-209.
- Hawksworth, D.L. 1977b. Taxonomic and biological observations on the genus *Lichenoconium* (Sphaeropsidales). *Persoonia* 9: 159-198.
- Hawksworth, D.L. 1978a. The identities of three species described in *Verrucaria* by Thomas Taylor. *Nova Hedwigia* 30: 549-555.
- Hawksworth, D.L. 1978b. Notes on British lichenicolous fungi: 2. *Notes R. Bot. Gard. Edinb.* 36: 181-198.

- Hawksworth, D.L. 1979a. The lichenicolous Hyphomycetes. *Bull. Br. Mus. nat. Hist. (Bot.)* 6: 183-300.
- Hawksworth, D.L. 1979b. Studies in the genus *Endococcus* (Dothideales). *Bot. Notiser* 132: 283-290.
- Hawksworth, D.L. 1980a. Notes on British lichenicolous fungi: 3. *Notes R. Bot. Gard. Edinb.* 38: 165-183.
- Hawksworth, D.L. 1980b. Notes on some fungi occurring on *Peltigera*, with a key to the accepted species. *Trans. British Mycol. Soc.* 74: 363-386.
- Hawksworth, D.L. 1981a. *Lichenothelia*, a new genus for the *Microthelia aterrима* group. *Lichenologist* 13: 141-153.
- Hawksworth, D.L. 1981b. The lichenicolous Coelomycetes. *Bull. Br. Mus. nat. Hist. (Bot.)* 9: 1-98.
- Hawksworth, D.L. 1982a. Notes on British lichenicolous fungi: 4. *Notes R. Bot. Gard. Edinb.* 40: 375-397.
- Hawksworth, D.L. 1982b. Changes to the British checklist arising from the abolition of later fungal starting point. *Lichenologist* 14: 131-137.
- Hawksworth, D.L. 1983a. A key to the lichen-forming, parasitic, parasymbiotic and saprophytic fungi occurring on lichens in the British Isles. *Lichenologist* 15: 1-44.
- Hawksworth, D.L. 1983b. The identity of *Pyrenidium actinellum* Nyl. *Trans. British Mycol. Soc.* 80: 547-549.
- Hawksworth, D.L. 1983c ("1982"). A new species of *Nectriella* with ornamented spores from Ireland, with a key to the lichenicolous species. *Nova Hedwigia* 35: 755-762.
- Hawksworth, D.L. 1984. Two interesting lichenicolous Hyphomycetes from Austria. *Beih. Nova Hedwigia* 79: 373-379.
- Hawksworth, D.L. 1985a. The application and citation of the generic name *Parmeliopsis* (Lecanorales, Parmeliaceae). *Pl. Syst. Evol.* 149: 303-307.
- Hawksworth, D.L. 1985b. A redistribution of the species referred to the ascomycete genus *Microthelia*. *Bull. Br. Mus. nat. Hist. (Bot.)* 14(2): 43-181.
- Hawksworth, D.L. 1986a. Notes on British lichenicolous fungi: 5. *Notes R. Bot. Gard. Edinb.* 43: 497-519.
- Hawksworth, D.L. 1986b. Changes which would arise from the extension of the names of lichen-forming fungi. *Taxon* 35: 787-793.
- Hawksworth, D.L. 1989. Notes on aquatic species of *Verrucaria* in the British Isles. *Lichenologist* 21: 23-28.
- Hawksworth, D.L. 1990. Notes on British lichenicolous fungi: 6. *Notes R. Bot. Gard. Edinb.* 46: 391-403.
- Hawksworth, D.L. 1991. *Charcotia Hue*, and *Arthonia* species lichenicolous on *Umbilicaria*. *Systema Ascom.* 10: 127-134.
- Hawksworth, D.L. 2003. The lichenicolous fungi of Great Britain and Ireland: an overview and annotated checklist. *Lichenologist* 35: 191-232.
- Hawksworth, D.L. 2004. Rediscovery of the original material of Osbeck's "Lichen chinensis" and the reinstatement of the name *Parmotrema perlatum* (Parmeliaceae). *Herzogia* 17: 37-44.
- Hawksworth, D.L., James, P.W. & Coppins, B.J. 1980. Checklist of British lichen-forming, lichenicolous and allied fungi. *Lichenologist* 12: 1-115.
- Hawksworth, D.L., Blanco, O., Divakar, P.K., Ahti, T. & Crespo, A. 2008. A first checklist of parmelioid and similar lichens in Europe and some adjacent territories, adopting revised generic circumscriptions and with indications of species distributions. *Lichenologist* 40: 1-21.

- Hedenås, H. 2002. Epiphytic lichens on *Populus tremula*. Implications for conservation. Dissertation, Umeå univ.
- Hedlund, J.T. 1891. Om bålbildning genom pycnoconidier hos *Catillaria denigrata* och *C. prasina*. Bot. Notiser 1891: 186-211.
- Hedlund, J.T. 1892. Kritische bemerkungen über einige Arten der Flechtengattungen *Lecanora*, *Lecidea* und *Micarea*. Bihang K. Svenska Vetensk.-Akad. Handl. 18, 3(3): 1-104.
- Heiðmarsson, S. 1998. Species delimitation in four long-spored species of *Dermatocarpon* in the Nordic countries. Ann. Bot. Fennici 35: 59-70.
- Heiðmarsson, S. 2001. The genus *Dermatocarpon* in the Nordic countries. Nord. J. Bot. 20: 605-639.
- Heiðmarsson, S. 2003. Molecular study of *Dermatocarpon miniatum* (Verrucariales) and allied taxa. Mycol. Res. 107: 459-468.
- Hellbom, P.J. 1867. Rariorum Lichenum species, quas in Nerica invenit. Öfvers. K. Vetensk.-Akad. Förhandl. 24: 267-278.
- Hellbom, P.J. 1869. Notizen über das Stenhammar'sche Flechtenherbar. Hedwigia 8: 24-28.
- Hellbom, P.J. 1871a. Om Nerikes lafvegetation. K. Svenska Vetensk.-Akad. Handl. 9(11): 1-91.
- Hellbom, P.J. 1871b. Nerikes lafflora. Örebro 151 pp.
- Hellbom, P.J. 1875. Bidrag till Lule Lappmarks lafflora. Öfvers. K. Vetensk.-Akad. Förhandl. 32: 49-82.
- Hellbom, P.J. 1884. Norrlands lavar. K. Svenska Vetensk.-Akad. 20(8): 1-131.
- Hemberg, J. 2011. Skyddsvärda lavar i Blekinge - nyupptäckta naturvärden nationell toppklass. Svensk Bot. Tidskr. 105: 67-85.
- Hemberg, J. 2014. SLF:s vårexkursion till Blekinge den 26-28 april 2013. Lavbulletinen 2013(2): 36-43.
- Hemberg, J. 2016. Två nya lavar för Blekinge. Lavbulletinen 2016(2): 60-63.
- Henssen, A. & Büdel, B. 1984. *Phyllisciella*, a new genus of the Lichinaceae. Beih. Nova Hedwigia 79: 381-398.
- Henssen, A. & Jørgensen, P.M. 1990. New combinations and synonyms in the Lichinaceae. Lichenologist 22: 137-147.
- Henssen, A. & Lücking, R. 2002. Morphology, anatomy and ontogeny in the Asterothyriaceae, a misunderstood group of lichenized fungi. Ann. Bot. Fennici 39: 273-299.
- Henssen, A. & Renner, B. 1981. Studies in the lichen genus *Psoroma* I: *Psoroma tenue* and *Psoroma cinnamomeum*. Mycotaxon 013: 433-449.
- Henssen, A. 1963a. Eine revision der Flechtenfamilien Lichinaceae und Ephebeaceae. Symb. Bot. Upsal. 18(1): 1-123.
- Henssen, A. 1963b. The North American species of *Placynthium*. Canad. J. Bot. 41: 1687-1724.
- Henssen, A. 1963c. Drei neue Arten der Flechtengattung *Phylliscum*. Svensk Bot. Tidskr. 57: 145-160.
- Henssen, A. 1965. A review of the genera of the Collemataceae with simple spores (excluding *Physma*). Lichenologist 3: 29-41.
- Henssen, A. 1966. Zwei bemerkenswerte Flechtenfunde in Lycksele lappmark. Svensk Bot. Tidskr. 60: 341-342.
- Henssen, A. 1968. *Thyrea radiata*, eine Lempholemma-Art mit Hormocyctangien. Ber. Deutsch. Bot. Ges. 81: 176-182.
- Henssen, A. 1969. Eine Studie über die Gattung *Arctomia*. Svensk Bot. Tidskr. 63: 126-138.
- Henssen, A. 1974. New or interesting cyanophilic lichens II. Lichenologist 6: 106-111.

- Henssen, A. 1976. Studies in the developmental morphology of lichenized Ascomycetes. In Brown, D.H., Hawksworth, D.L. & Bailey, R.H., Lichenology: Progress and Problems: 107-138.
- Henssen, A. 1977. The genus *Zahlbrucknerella*. Lichenologist 9: 17-46.
- Henssen, A. 1980 ("1979"). Problematik der Gattungsbegrenzung bei den Lichinaceen. Ber. Deutsch. Bot. Ges. 92: 483-506.
- Henssen, A. 1987. *Lichenothelia*, a genus of microfungi on rocks. Biblioth. Lichenol. 25: 257-293.
- Henssen, A. 1994. Contribution to the morphology and species delimitation in *Heppia sensu stricto*. Acta Bot. Fenn. 150: 57-73.
- Henssen, A. 1995a. *Psoroglaena costaricensis*, a new lichen from Costa Rica, and remarks on other taxa of the genus *Psoroglaena* (Verrucariaceae). Biblioth. Lichenol. 57: 199-210.
- Henssen, A. 1995b. *Sagirolechia atlantica*, eine neue Flechte von den Atlantischen Inseln (Ascomycotina, Ostropales). Biblioth. Lichenol. 58: 123-136.
- Henssen, A. 1995c. Apothecial structure and development in *Protoparmelia badia*. In Daniels, J.A. et al., Flechten Follmann. Contr. Lich. Honour G. Follmann: 55-62. Cologne.
- Henssen, A. 1995d. Studies on the biology and structure of *Dacampia* (Dothideales), a genus with lichenized and lichenicolous species. Crypt. Bot. 5: 149-158.
- Henssen, A. 1997. *Santessoniella*, a new cyanophilic genus of lichenized ascomycetes. Symb. Bot. Upsal. 32(1): 75-93.
- Hermann, S., Leuckert, C. & Poelt, J. 1973. Zur Kenntnis der Flechtengruppe *Lecanora radiosae* s. ampliss. Willdenowia 7: 9-30.
- Hermansson, J. & Thor, G. 2004a. *Bryoria tortuosa* discovered as new to Sweden. Graphis Scripta 15: 39-41.
- Hermansson, J. & Thor, G. 2004b. *Byssoloma subdiscordans* and *Usnea substerelis* new to Sweden. Graphis Scripta 15: 42-44.
- Hermansson, J. 2003. *Skuggspiklaven Calicium lenticulare* återfunnen i Sverige efter 138 år. Fauna & Flora 98: 11.
- Hermansson, J. 2005a. *Phaeocalicium flabelliforme* new to Norway. Graphis Scripta 17: 8.
- Hermansson, J. 2005b. *Ainoa mooreana* new to Sweden. Graphis Scripta 17: 41-42.
- Hermansson, J. 2008a. Hotade och sällsynta växter i Dalarna. Dalarnas Botaniska Sällskap, 923 pp.
- Hermansson, J. 2008b. Nya lavar i Dalarna. Trollius 37: 20-30.
- Hermansson, J., Lundqvist, R. & Oldhammer, B. 1988. Nya fynd av ringlav, *Evernia divaricata*, i Dalarna. Svensk Bot. Tidskr. 88: 314-323.
- Hertel, H. & Knoph, J.-G. 1984. *Porpidia albocaerulescens*, eine weit verbreitete, doch in Europa seltene und vielfach verkannte Krustenflechte. Mitt. Bot. Staatssamml. München 20: 467-488.
- Hertel, H. & Leuckert, C. 1969. Über Flechtenstoffe und Systematik einiger Arten der Gattungen *Lecidea*, *Placopsis* und *Trapelia* mit C+ rot reagierendem Thallus. Willdenowia 5: 369-383.
- Hertel, H. & Leuckert, C. 1979. *Rhizocarpon dinothetes* n. sp., eine auf *Lecanora badia* parasitierende Flechte in den Alpen. Herzogia 5: 25-37.
- Hertel, H. & Rambold, G. 1985. *Lecidea* sect *Armeniaca*: *lecideoide* Arten der Flechtengattungen *Lecanora* und *Tephromela* (Lecanorales). Bot. Jahrb. Syst. 107: 469-501.
- Hertel, H. & Rambold, G. 1987. *Miriquidica* genus novum Lecanoracearum. Mitt. Bot. Staatssamml. München 23: 377-392.

- Hertel, H. & Rambold, G. 1988a. *Lecidea mosigii* - eine Art der Gattung *Orphniospora*. Mitt. Bot. Staatssamml. München 27: 111-123.
- Hertel, H. & Rambold, G. 1988b. Cephalodiate Arten der Gattung *Lecidea* sensu lato (Ascomycetes lichenisati). Pl. Syst. Evol. 158: 289-312.
- Hertel, H. & Rambold, G. 1990. Zur Kenntnis der Familie Rimulariaceae. Biblioth. Lichenol. 38: 145-189.
- Hertel, H. & Rambold, G. 1995. On the genus *Adelolecia* (lichenized Ascomycotina, Lecanorales). Biblioth. Lichenol. 57: 211-230.
- Hertel, H. & Ullrich, H. 1976. Flechten von Amsterdamöya (Svalbard). Mitt. Bot. Staatssamml. München 12: 417-512.
- Hertel, H. & Zürn, L. 1986. *Schaereria fabispora* - eine neue Art aus Norwegen. Mitt. Bot. Staatssamml. München 22: 477-483.
- Hertel, H. 1967. Revision einiger calciphiler Formenkreise der Flechtengattung *Lecidea*. Beih. Nova Hedwigia 24: 1-155.
- Hertel, H. 1968. Beiträge zur Kenntnis der Flechtenfamilie Lecideaceae I. Herzogia 1: 25-39.
- Hertel, H. 1969a. Die Flechtengattung *Trapelia* Choisy. Herzogia 1: 111-130.
- Hertel, H. 1969b. Beiträge zur Kenntnis der Flechtenfamilie Lecideaceae II. Herzogia 1: 321-329.
- Hertel, H. 1969c. *Arthonia intexta* Almqu., ein vielfach verkannter fruchtkörperloser Flechtenparasit. Ber. Deutsch. Bot. Ges. 82: 209-220.
- Hertel, H. 1970a. Parasitische lichenisierte Arten der Sammelgattung *Lecidea* in Europa. Herzogia 1: 405-438.
- Hertel, H. 1970b. Beiträge zur Kenntnis der Flechtenfamilie Lecideaceae III. Herzogia 2: 37-62.
- Hertel, H. 1970c. Trapeliaceae - eine neue Flechtenfamilie. Vorträge Gesamtgebiet Bot., N. F. 4: 171-185.
- Hertel, H. 1971a. Beiträge zur Kenntnis der Flechtenfamilie Lecideaceae IV. Herzogia 2: 231-261.
- Hertel, H. 1971b. Über holarktische Krustenflechten aus den venezuelanischen Anden. Willdenowia 6: 225-272.
- Hertel, H. 1973. Beiträge zur Kenntnis der Flechtenfamilie Lecideaceae V. Herzogia 2: 479-515.
- Hertel, H. 1974. Krustenflechten aus Venezuela. Mitt. Bot. Staatssamml. München 11: 405-430.
- Hertel, H. 1975a. Beiträge zur Kenntnis der Flechtenfamilie Lecideaceae VI. Herzogia 3: 365-406.
- Hertel, H. 1975b. Über einige gesteinbewohnende Krustenflechten aus der Umgebung von Finse (Norwegen, Hordaland). Mitt. Bot. Staatssamml. München 12: 113-152.
- Hertel, H. 1975c. Ein vorläufiger Bestimmungsschlüssel für die kryptothallinen, schwarzfrüchtigen, saxicolen Arten der Sammelgattung *Lecidea* (Lichenes) in der Holarktis. Decheniana 127: 37-78.
- Hertel, H. 1977a. Gesteinbewohnende Arten der Sammelgattung *Lecidea* (Lichens) aus Zentral-, Ost- und Südasien. Khumbu Himal 6(3): 145-378.
- Hertel, H. 1977b. Bemerkenswerte Flechtenfunde aus dem Gebiet des Kongsfjordes und des Isfjordes (Spitzbergen). Herzogia 4: 367-401.
- Hertel, H. 1977c. *Lecidea* in der Arktis. 1. Mitt. Bot. Staatssamml. München 13: 337-352.
- Hertel, H. 1980. Index collectorum lichenum herbarii Monacensis. Ein Sammler-Verzeichnis des Flechtenherbars der Botanischen Staatssammlung München. Mitt. Bot. Staatssamml. München 16: 333-462.
- Hertel, H. 1981a. Beiträge zur Kenntnis der Flechtenfamilie Lecideaceae VIII. Herzogia 5: 449-463.

- Hertel, H. 1981b. Lecidea in der Arktis. 2. Mitt. Bot. Staatssamml. München 17: 171-184.
- Hertel, H. 1981c. Bemerkungen zum Fazikel II der Lecideaceae exsiccatae. Mitt. Bot. Staatssamml. München 17: 537-548.
- Hertel, H. 1983a. Lecideaceae exsiccatae, Fasc. 5. Bot. Staatssamml. München.
- Hertel, H. 1983b. Über einige aus Lecidea und Melanolecia auszuschliessende Arten. Mitt. Bot. Staatssamml. München 19: 441-447.
- Hertel, H. 1985. New or little known New Zealand lecideoid lichens. Mitt. Bot. Staatssamml. München 21: 301-337.
- Hertel, H. 1987. Bemerkenswerte Funde südhemisphärischer, saxicolier Arten der Sammelgattung Lecidea. Mitt. Bot. Staatssamml. München 23: 321-340.
- Hertel, H. 1990. New records of lecideoid lichens from the Southern Hemisphere. Mitt. Bot. Staatssamml. München 28: 211-238.
- Hertel, H. 1991. Lecidea in der Arctis III. Mitt. Bot. Staatssamml. München 30: 297-333.
- Hertel, H. 1995. Schlüssel für die Arten der Flechtenfamilie Lecideaceae in Europa. Biblioth. Lichenol. 58: 137-180.
- Hertel, H. 1997. On the genus Lecidea (Lecanorales) in Southern Chile and Argentina. Symb. Bot. Upsal. 32(1): 95-111.
- Hertel, H. 2001. Floristic and taxonomic notes on saxicolous lecideoid lichens. Sendtnera 7: 93-136.
- Hestmark, G. 1990. Thalloconidia in the genus Umbilicaria. Nord. J. Bot. 9: 547-574.
- Hestmark, G. 1993. Umbilicaria dendrophora. Mycotaxon 046: 211-215.
- Hestmark, G. 2017. Lectotypification of Umbilicaria leiocarpa (Umbilicariaceae). Graphis Scripta 29: 12-17.
- Heuchert, B. & Braun, U. 2017. Two new Lichen-associated Trimmatostroma species. Herzogia 27: 227-236.
- Heuchert, B., Braun, U., Diederich, P. & Ertz, D. 2018. Taxonomic monograph of the genus Taeniolella s. la.t (Ascomycota). Fungal Systematics and Evolution 2: 69-261.
- Hillmann, J. & Grumann, V. 1957. Flechten. Kryptogamenflora der Mark Brandenburg 8: 1-898.
- Himelbrant, D.E., Motiejūnaitė, J., Pykälä, J., Schiefelbein, U. & Stepanchikova, I.S. 2013. New records of lichens and allied fungi from the Leningrad Region, Russia. IV. Folia Cryptog. Estonica 50: 23-31.
- Hinteregger, E., Mayrhofer, H. & Poelt, J. 1989. Die Flechten der Alpenrosen in den Ostalpen. I. Einige Arten der Gattungen Lecanora und Rinodina. Mitt. Naturwiss. Ver. Steiermark 119: 83-102.
- Hoffmann, N. & Hafellner, J. 2000. Eine Revision der lichenicolen Arten der Sammelgattungen Guignardia und Physalospora (Ascomycotina). Biblioth. Lichenol. 77: 1-181.
- Hofton, T.H. 2020. Elfenbenslav (Heterodermia speciosa) i Norge - status pr. 31.12.2019. BioFokus-rapport 2020-1.
- Holien, H. & Hilmo, O. 1991. Contributions to the lichen flora of Norway, primarily from the central and northern countries. Gunneria 65: 1-38.
- Holien, H. & Jørgensen, P.M. 2000. A blue-green Psoroma hypnorum found in Trøndelag, Central Norway. Graphis Scripta 11: 49-52.
- Holien, H. & Jørgensen, P.M. 2010. Narreglye Staurolemma omphalarioides, en av Norges merkeligaste lavararter. Blyttia 68: 81-89.
- Holien, H. & Triebel, D. 1996. Spirographa vinosa, a new odontotremoid fungus on Ochrolechia and Pertusaria. Lichenologist 28: 307-313.
- Holien, H. & Tønsberg, T. 1985. Notes on Cladonia asahinae, C. conista and the C. grayi- group in Norway. Gunneria 51: 1-24.

- Holien, H. & Tønsberg, T. 1994. The 10th meeting of the Nordic Lichen Society in Nord-Trøndelag, Norway, 1993. *Graphis Scripta* 6: 67-75.
- Holien, H. & Tønsberg, T. 1996. Boreal regnskog i Norge - habitatet for trøndelagselementets lavararter. *Blyttia* 54: 157-177.
- Holien, H. & Tønsberg, T. 2002. Two new species in the lichen genus *Szczawinskia*. *Lichenologist* 34: 369-372.
- Holien, H. & Tønsberg, T. 2006. Norsk lavflora. Trondheim, 224 pp.
- Holien, H. & Tønsberg, T. 2008. *Xylographa soralifera*, a new species in the *Xylographa vitiligo* complex. *Graphis Scripta* 20: 58-63.
- Holien, H. & Tønsberg, T. 2012a. *Ramboldia subcinnabarina* revisited. *Graphis Scripta* 24: 9-12.
- Holien, H. & Tønsberg, T. 2012b. *Biatora kodiakensis* confirmed from Europe. *Graphis Scripta* 24: 49-52.
- Holien, H. & Tønsberg, T. 2017. *Cliostomum piceicola*, a new lichen species from oldgrowth coniferous forests in northern Europe. *Herzogia* 30: 427-430.
- Holien, H. 1986. *Bryoria tortuosa* new to northern Europe. *Lichenologist* 18: 265-268.
- Holien, H. 1989. The genus *Bryoria* sect. *Implexae* in Norway. *Lichenologist* 21: 243-258.
- Holien, H. 1992a. *Bryoria glabra* new to Europe. *Graphis Scripta* 3: 138-139.
- Holien, H. 1992b. Some lichen species new to Norway and Sweden. *Graphis Scripta* 4: 69-72.
- Holien, H. 1994. Additions to the Norwegian flora of lichens and lichenicolous fungi. *Graphis Scripta* 6: 39-43.
- Holien, H. 1997. *Lecanora cinereofusca* in Norway, a rare and endangered lichen. *Graphis Scripta* 8: 11-15.
- Holien, H. 1998a. Three lichen species new to Norway. *Graphis Scripta* 9: 55-58.
- Holien, H. 1998b. Lichens in spruce forest stands of different successional stages in central Norway with emphasis on diversity and old growth species. *Nova Hedwigia* 66: 283-324.
- Holien, H. 2000. *Byssoloma marginatum* new to Norway and the status of the species in Scandinavia. *Graphis Scripta* 11: 61-63.
- Holien, H. 2001. Additions to the Norwegian flora of lichens and lichenicolous fungi II - with some further distributional notes on Norwegian Caliciales. *Graphis Scripta* 12: 51-58.
- Holien, H. 2005. Additions to the Norwegian flora of lichens and lichenicolous fungi III. *Graphis Scripta* 17: 62-64.
- Holien, H., Gaarder, G. & Håpnes, A. 1995. *Erioderma pedicellatum* still present, but highly endangered in Europe. *Graphis Scripta* 7: 79-84.
- Holien, H., Clayden, S.R., Hofton, T.H. & Jonsson, F. 2015. *Bactrospora brodoi*, its ecology and world distribution. *Graphis Scripta* 27: 46-55.
- Holien, H. et al. 2016a. Interesting lichenized and lichenicolous fungi found during the Nordic Lichen Society excursion in Nord-Trøndelag, Norway 2015. *Graphis Scripta* 28: 40-49.
- Holien, H., Palice, Z., Björk, C.R., Goward, T. & Spribille, T. 2016b. *Lecidea coriacea* sp. nov., a lichen species from oldgrowth boreal and montane forests in Europe and North America. *Herzogia* 29: 412-420.
- Holtan-Hartwig, J. & Timdal, E. 1987. Notes on some parasitic *Rhizocarpon* species. *Lichenologist* 19: 335-338.
- Holtan-Hartwig, J. 1988. Two new species of *Peltigera*. *Lichenologist* 20: 11-17.
- Holtan-Hartwig, J. 1991. Revision of the lichens *Bryonora castanea* and *B. curvescens*. *Mycotaxon* 040: 295-305.
- Holtan-Hartwig, J. 1993. The lichen genus *Peltigera*, exclusive of the *P. canina* group, in Norway. *Sommerfeltia* 15: 1-77.

- Holtan-Hartwig, J. 2005. *Peltigera latiloba*, a new lichen species from Norway and USA (Alaska). *Graphis Scripta* 17: 34.
- Houmeau, J.M. & Roux, C. 1982. *Hafellnera Houmeau & Roux* gen. nov. genre nouveau de lichen. *Bull. Soc. Bot. Centre-Ouest, N. ser.* 15: 142.
- Howard, G.E. 1970. The lichen genus *Ochrolechia* in north America north of Mexico. *Bryologist* 73: 93-130.
- Huhtinen, S. & Santesson, R. 1997. A New lichenicolous species of *Polydesmia* (*Hyaloscyphaceae*). *Lichenologist* 29: 205-208.
- Huhtinen, S. Hawksworth, D.L. & Ihlen, P.G. 2008. Observations on two glassy-haired lichenicolous discomycetes. *Lichenologist* 40: 549-557.
- Hultengren, S. & Johansson, P. 1997. *Dvärgrosettlav, Hyperphyscia adglutinata*, i Sverige. *Svensk Bot. Tidskr.* 90: 267-271.
- Hultengren, S. & Nordén, B. 1996. *Bylav, Degelia plumbea* - ekologi och aktuell utbredning i sydvästra Sverige. *Svensk Bot. Tidskr.* 90: 1-9.
- Hultengren, S. & Stenström, J. 2007. *Lavininventering på Gotska Sandön 2005 och 2006*. Länsstyrelsen Gotland, 32 pp.
- Hultengren, S., Kannesten, C. & Svensson, S. 1993. Om några oceaniska lavar i Sydvästsverige. *Graphis Scripta* 5: 24-38.
- Hultengren, S., Malmqvist, A. & Arvidsson, L. 2011. Mörk örtlav och praktsköldlav - två för Sverige nya oceaniska bladlavar. *Svensk Bot. Tidskr.* 105: 4-8.
- Hulting, J. 1872. *Lichenologiska exkursioner i Vestra Bleking. Norrköping*, 26 pp.
- Hulting, J. 1891. *Lichenes nonnulli Scandinaviae*. *Bot. Notiser* 1891: 82-85.
- Hulting, J. 1900. *Dalslands lafvar. Bihang K.* *Svenska Vetensk.-Akad. Handl.* 26, 3(3): 1-102.
- Hulting, J. 1910. *Lichenes nonnulli Scandinaviae. IV* *Bot. Notiser* 1910: 303-306.
- Hulting, J. 1915. *Lichenes nonnulli Scandinaviae. V.* *Bot. Notiser* 1915: 61-64.
- Hulting, J. 1925. *Lavar från Östergötland*. *Arkiv Bot.* 20A(2) 1-79.
- Huneck, S., Schmidt, J. & Mayrhofer, M. 1989. *Zur Chemie der Flechte Phaeorrhiza nimbose*. *Herzogia* 8: 137-139.
- Huuskonen, A.J. 1976. *Maallemme uusi jakalalaji (Absconditella sphagnorum Vezda et Poelt) loydetty Enontekiolta [Absconditella sphagnorum is reported for the first time from Finland. In Finnish.]*. *Savon Luonto* 8: 5.
- Hällbom, L. 1984. *Sarcosine: a possible regulatory compound in the Peltigera praetextata - Nostoc symbiosis*. *FEMS Microbiology Letters* 22: 119-121.
- Høeg, O.A. 1923. *The corticolous Norwegian Pertusariaceae and Thelotremaataceae*. *Nytt Mag. Naturvid.* 61: 139-178.
- Högnabba, F. 2006. *Molecular phylogeny of the genus Stereocaulon (Stereocaulaceae, lichenized ascomycetes)*. *Mycol. Res.* 110: 1080-1092.
- Högnabba, F., Pino-Bodas, R., Nordin, A., Myllys, L. & Stenroos, S. 2014. *Phylogenetic position of the crustose Stereocaulon species*. *Lichenologist* 46: 103-114.
- Høiland, K. 1987. *The basidiolichens of Norway & Svalbard*. *Graphis Scripta* 1: 81-90.
- Ihlen, P.-G. & Coppins, B.J. 1999. *Two species of Arthothelium (Arthoniaceae) new to Scandinavia*. *Nova Hedwigia* 69: 391-397.
- Ihlen, P.G. & Fryday, A.M. 2002. *Rhizocarpon timdalii, a new lichen species from north-west Europe and north-east Europe*. *Lichenologist* 34: 95-100.
- Ihlen, P.G. & Tønsberg, T. 1994. *The distribution of Cladonia borealis in Norway*. *Graphis Scripta* 6: 27-29.
- Ihlen, P.G. & Wedin, M. 2005. *Notes on Swedish lichenicolous fungi*. *Nova Hedwigia* 81: 493-499.

- Ihlen, P.G. & Wedin, M. 2006. Notes on two lichenicolous fungi on *Cladonia botrytes* in Scandinavia. *Graphis Scripta* 18: 38-40.
- Ihlen, P.G. & Wedin, M. 2007. *Cercidospora alpina* sp. nov. and a key to the known species in Fennoscandia. *Lichenologist* 39: 1-6.
- Ihlen, P.G. & Wedin, M. 2008. An annotated key to the lichenicolous Ascomycota (including mitosporic morphs) of Sweden. *Nova Hedwigia* 86: 275-365.
- Ihlen, P.G. 1995a. The lichenicolous fungi on *Thamnolia vermicularis* in Norway. *Graphis Scripta* 7: 17-24.
- Ihlen, P.G. 1995b. The species of the lichen genera *Baeomyces*, *Dibaeis*, and *Icmadophila* (Leotiales, Ascomycotina) in Norway, and their lichenicolous fungi. Cand. sci. thesis, Unic. Bergen, Norway 88 pp.
- Ihlen, P.G. 1997a. The lichen genus *Baeomyces* (Leotiales) in Norway. *Nova Hedwigia* 64: 137-146.
- Ihlen, P.G. 1997b. Contributions to the Norwegian flora of lichens and lichenicolous fungi. *Graphis Scripta* 8: 33-39.
- Ihlen, P.G. 1998. The lichenicolous fungi on species of the genera *Baeomyces*, *Dibaeis* and *Icmadophila* in Norway. *Lichenologist* 30: 27-57.
- Ihlen, P.G. 2004a. A new species of *Lichenostigma* (Lichenotheliaceae) from Scandinavia. *Lichenologist* 36: 183-189.
- Ihlen, P.G. 2004b. Taxonomy of the non-yellow species of *Rhizocarpon* (Rhizocarpaceae) in the Nordic countries, with hyaline and muriform ascospores. *Mycol. Res.* 108: 533-570.
- Ihlen, P.G., Holien, H. & Tønsberg, T. 2004a. Two new species of *Dactylospora* (Dactylosporaceae), with a key to the known species in Scandinavia. *Bryologist* 107: 357-367.
- Ihlen, P.G., Owe-Larsson, B. & Tønsberg, T. 2004b. *Arthonia biatoricola* sp. nov. from north-western Europe and northern Pacific North America. *Symb. Bot. Upsal.* 34(1): 107-111.
- Ingelög, T. (ed.) 1994. Floravård i jordbrukslandskapet. Skyddsvärda växter. Databanken för hotade arter, 559 pp.
- Ingelög, T., Thor, G. & Gustavsson, L. (eds) 1987. Floravård i skogsbruket. Del 2 - Art del, ed. 2. Skogsstyrelsen Jönköping, 458 pp.
- Inoue, M. 1981a. A taxonomic study on the Japanese species of *Fuscidea* (lichens). *Hikobia Suppl.* 1: 161-176.
- Inoue, M. 1981b. A preliminary revision of extra-Japanese species of *Fuscidea* (lichens). *Hikobia Suppl.* 1: 177-181.
- Inoue, M. 1983a. Japanese species of *Huilia* (Lichenes) (2). *J. Japanese Bot.* 58: 161-173.
- Inoue, M. 1983b. Japanese species of *Huilia* (Lichenes) (3). *J. Japanese Bot.* 58: 225-236.
- Inoue, M. 1984. Japanese crustose lichen genera formerly reported under *Lecidea* sensu lato. 1. *Amygdalaria* Norman. *J. Hattori Bot. Lab.* 56: 321-330.
- Inumaru, S. 1939. *Studia lichenum Japoniae*. I. *Acta Phytotax. Geobot.* 8: 223-227.
- Isaksson, R. 2019. *Abrothallus acetabuli* - en ny lavparasit för Sverige. *Lavbulletinen* 2018(2): 44-46.
- Jacobsen, P. & Coppins, B.J. 1989. On the identity of some "endemic" North German lichens. *Nova Hedwigia* 49: 255-273.
- Jahns, H.M. & Smittenberg, J.C. 1970. *Baeomyces roseus* Pers. - Ontogenie und Regeneration der Fruchtkörper. *Herzogia* 2: 79-88.
- Jahns, H.M. 1970. Remarks on the taxonomy of the European and North American species of *Philophorus*. *Lichenologist* 4: 199-213.
- Jahns, H.M. 1981. The genus *Pilophorus*. *Mycotaxon* 013: 289-330.
- Jahns, H.M., Beltman, H.A. & van den Knapp, P. 1969. *Cladonia ecmocyna* Nyl. - investigation on the ontogeny. *Acta Bot. Neerl.* 18: 627-633.

- Jahns, H.M., Klöckner, P., Jørgensen, P.M. & Ott, S. 1995. Development of thallus and ascocarps in *Stereocaulon tornoenis*. *Biblioth. Lichenol.* 58: 181-190.
- James, P.W. & Henssen, A. 1976. The morphological and taxonomic significance of cephalodia. In Brown, D.H., Hawksworth, D.L. & Bailey, R.H., *Lichenology: Progress and Problems*, pp. 27-77.
- James, P.W. & White, F.J. 1987. Studies on the genus *Nephroma* I. The European and Macaronesian species. *Lichenologist* 19: 215-268.
- James, P.W. 1962. Angiocarpous lichens in the British Isles: 2. *Lichenologist* 2: 86-94.
- James, P.W. 1965. A new check-list of British lichens. *Lichenologist* 3: 95-153.
- James, P.W. 1970. The lichen flora of shaded acid rock crevices and overhangs in Britain. *Lichenologist* 4: 309-322.
- James, P.W. 1971. New or interesting British lichens 1. *Lichenologist* 5: 114-148.
- James, P.W. 1975. The genus *Gyalideopsis* Vezda in Britain. *Lichenologist* 7: 155-161.
- Jansson, B., Owe-Larsson, B. & Ståhlberg, J. 1994. Lav- och svampfloran i Klarälvdalens nära skogar. Länsstyr. Värmland, Rapport 1994:12, 70 pp.
- Jatta, A. 1893a. Materiali per un censimento generale del licheni Italiani. *Bull. Soc. Bot. Italiana* 1893: 106-119.
- Jatta, A. 1893b. Materiali per un censimento generale del licheni Italiani. *Bull. Soc. Bot. Italiana* 1893: 144-151.
- Johansson, P. & Hermansson, J. 2000. *Eupyrenula septemseptata* new to Sweden and notes on the occurrence of *E. leucoplaca*. *Graphis Scripta* 12: 19-23.
- Johansson, P. & Wågström, K. 1997. *Arthonia cinnabarina* and *Arthonia zwackhii* found on Gotland, Sweden. *Graphis Scripta* 8: 57-60.
- Johansson, P. 1992. Bark- och vedlavlar på Kullaberg - förändringar under 80 år. *Svensk Bot. Tidskr.* 86: 243-259.
- Johansson, P. 2006. Lavekologi i uppländska lövskogar, nordamerikanska barrskogar och prärier - ny avhandling. *Lavbulletinen* 2006(2): 72-75.
- Johansson, P., Arup, U. & Fröberg, L. 2000. Lavfloran på Lilla och Stora Karlsö. *Svensk Bot. Tidskr.* 94: 205-254.
- Johansson, T., Knutsson, T. & Lundkvist, H. 2003. Gammelekslavlar – vad gömmer sig på 2-14 meters höjd. *Graphis Scripta* 14: 49-54.
- Johansson, T., Knutsson, T. & Lundkvist, H. 2004. Daggklotterlaven, *Lecanographa lyncea* i Ottenby lund, en floraväktarrapport. *Lavbulletinen* 2004(1): 8-11.
- Jonsson, F. & Nordin, U. 2012a. Inventering av elfenbenslav *Heterodermia speciosa* i Jämtlands län hösten 2011. *Lavbulletinen* 2012(1): 4-11.
- Jonsson, F. & Nordin, U. 2012b. Sex biotoper för trubbig brosklav *Ramalina obtusata* i Jämtland. *Lavbulletinen* 2012(1): 22-26.
- Jonsson, F. 2002a. *Biatora toensbergii* ny för Sverige. *Graphis Scripta* 13: 55-57.
- Jonsson, F. 2002b. *Ochrolechia gowardii* new to Sweden. *Graphis Scripta* 13: 58.
- Jonsson, F. 2003a. *Calicium pinastrii* new to Sweden. *Graphis Scripta* 14: 5-6.
- Jonsson, F. 2003b. *Alpasberget* – ny lokal för elfenbenslav. *Svensk Bot. Tidskr.* 97: 176-178.
- Jonsson, F. 2010. Lunglavsknapp, skrovellavsknapp och apothecier på lunglav och skrovellav. *Lavbulletinen* 2010(2): 101-106.
- Jordal, J.B., Klepsland, J.T. & Nordén, B. 2017. *Melaspilea lentiginosula*, a species of oceanic pine forests, new to Fennoscandia. *Graphis Scripta* 29: 33-39.

- Jølle, O.H. 1977a. *Ramalina baltica* ny för Norge. *Blyttia* 35: 111-112.
- Jølle, O.H. 1977b. Ny lav för Norge och Sverige: *Cladonia cyathomorpha*. *Blyttia* 35: 163-166.
- Jølle, O.H. 1978. *Parmelia plittii* (*Xanthoparmelia*) new to Europe. *Norw. J. Bot.* 25: 47-49.
- Jørgensen, P.M. & Coppins, B.J. 1983. The nomenclature of *Xanthoria lobulata*. *Taxon* 32: 462-464.
- Jørgensen, P.M. & Goward, T. 2015. Notes on the *Collema tenax* complex, with recognition of two further species in the genus *Enchylium* (Ach.) Gray. *Evansia* 32: 42-47.
- Jørgensen, P.M. & Henssen, A. 1990. Proposal to conserv *Pyrenopsis* (Nyl.) Nyl., and nomenclatural comments on some related genera. *Taxon* 39: 343-348.
- Jørgensen, P.M. & Jahns, H.M. 1987. *Muhria*, a remarkable new lichen genus from Scandinavia. *Notes R. Bot. Gard. Edinb.* 44: 581-599.
- Jørgensen, P.M. & James, P.W. 1983. Studies on some *Leptogium* species of Western Europe. *Lichenologist* 15: 109-125.
- Jørgensen, P.M. & James, P.W. 1990. Studies in the lichen family *Pannariaceae* IV. The genus *Degelia*. *Biblioth. Lichenol.* 38: 253-276.
- Jørgensen, P.M. & Johnsen, J.I. 2006. *Fuscopannaria atlantica* new to Scandinavia. *Graphis Scripta* 18: 16-18.
- Jørgensen, P.M. & Nordin, A. 2009. Lichens in Scandinavia known mainly from Norwegian type specimens. *Graphis Scripta* 21: 1-20.
- Jørgensen, P.M. & Ryman, S. 1989. The correct names of the lichenized *Omphalina* species in Scandinavia. *Graphis Scripta* 3: 138-143.
- Jørgensen, P.M. & Ryvarden, L. 1970. Contribution to the lichen flora of Norway. *Årbok Univ. Bergen, mat.-naturv. ser.* 10: 1-24.
- Jørgensen, P.M. & Santesson, R. 1989. Three new species in the lichen genus *Ionaspis*. *Nord. J. Bot.* 9: 431-434.
- Jørgensen, P.M. & Tønsberg, T. 1988. On some crustose lichens with *Trentepohlia* from shaded overhangs in coastal Norway. *Nord. J. Bot.* 8: 293-304.
- Jørgensen, P.M. & Tønsberg, T. 2007. *Lobariaceae*. In: Ahti et al. (eds), *Nordic Lichen Flora* 3: 77-86, 145.
- Jørgensen, P.M. & Øvstedal, D.O. 1975. Nye vestnorske lavfunn. *Blyttia* 33: 11-16.
- Jørgensen, P.M. 1970 ("1969"). *Sticta dufourii* and its parasymbiont *Arthonia abeloniae* in Norway. *Nova Hedwigia* 018: 331-340.
- Jørgensen, P.M. 1972a. Noen interessante lavfunn, særlig fra Vestlandet. *Blyttia* 30: 153-162.
- Jørgensen, P.M. 1972b. Further studies in *Alectoria* sect. *Divaricatae* DR. *Svensk Bot. Tidskr.* 66: 191-201.
- Jørgensen, P.M. 1975. Contributions to a Monograph of the *Malloetium*-hairy *Leptogium* species. *Herzogia* 3: 433-460.
- Jørgensen, P.M. 1978. The lichen family *Pannariaceae* in Europe. *Opera Bot.* 45: 1-123.
- Jørgensen, P.M. 1988. Nyfunn av lav med blågrønne bakterier i Norge. *Graphis Scripta* 2: 55-59.
- Jørgensen, P.M. 1989. Notes on the lichen genus *Ionaspis* in Scandinavia. *Graphis Scripta* 2: 118-121.
- Jørgensen, P.M. 1990a. The lichen genus *Pterygiopsis* in northern Europe. *Lichenologist* 22: 213-217.
- Jørgensen, P.M. 1990b. Trønderlav (*Erioderma pedicellatum*) - Norges mest gåtefulle plante? *Blyttia* 48: 119-123.
- Jørgensen, P.M. 1991. On some Fennoscandian *Pannaria* species. *Ann. Bot. Fennici* 28: 87-91.

- Jørgensen, P.M. 1994. Further notes on European taxa of the lichen genus *Leptogium*, with emphasis on the small species. *Lichenologist* 26: 1-29.
- Jørgensen, P.M. 1996. The oceanic element in the Scandinavian lichen flora revisited. *Symb. Bot. Upsal.* 31(3): 297-317.
- Jørgensen, P.M. 1998. A new species in the lichen genus *Lempholemma* from the Baltic islands. *Graphis Scripta* 9: 5-6.
- Jørgensen, P.M. 2000a. Survey of the lichen family Pannariaceae on the American continent, north of Mexico. *Bryologist* 103: 670-704.
- Jørgensen, P.M. 2000b. Studies in the lichen family Pannariaceae IX. A revision of *Pannaria* subgen. *Cryptopannaria*. *Nova Hedwigia* 71: 405-414.
- Jørgensen, P.M. 2004a. The nomenclature of *Umbilicaria havaasii*. *Graphis Scripta* 16: 16-19.
- Jørgensen, P.M. 2004b. A new North American species of the lichen genus *Staurolemma* (Collemataceae). *Bryologist* 107: 392-394.
- Jørgensen, P.M. 2005. A new Atlantic species in *Fuscopannaria*, with a key to its European species. *Lichenologist* 37: 221-225.
- Jørgensen, P.M. 2006. *Leptochidium crenulatum*, a misunderstood arctic-alpine lichen. *Graphis Scripta* 18: 19-22.
- Jørgensen, P.M. 2007a. Arctomiaceae. In: Ahti et al. (eds), *Nordic Lichen Flora* 3: 9-11.
- Jørgensen, P.M. 2007b. Coccocarpiaceae. In: Ahti et al. (eds), *Nordic Lichen Flora* 3: 12-13, 143.
- Jørgensen, P.M. 2007c. Collemataceae. In: Ahti et al. (eds), *Nordic Lichen Flora* 3: 14-42, 143.
- Jørgensen, P.M. 2007d. Heppiaceae. In: Ahti et al. (eds), *Nordic Lichen Flora* 3: 43-45, 144.
- Jørgensen, P.M. 2007e. Lichinaceae. In: Ahti et al. (eds), *Nordic Lichen Flora* 3: 46-76, 144.
- Jørgensen, P.M. 2007f. Massalongiaceae. In: Ahti et al. (eds), *Nordic Lichen Flora* 3: 87-90, 145.
- Jørgensen, P.M. 2007g. Pannariaceae. In: Ahti et al. (eds), *Nordic Lichen Flora* 3: 96-112, 146.
- Jørgensen, P.M. 2007h. Peltulaceae. In: Ahti et al. (eds), *Nordic Lichen Flora* 3: 132-133.
- Jørgensen, P.M. 2007i. Placynthiaceae. In: Ahti et al. (eds), *Nordic Lichen Flora* 3: 134-142, 146.
- Jørgensen, P.M. 2008. *Vahliella*, a new lichen genus. *Lichenologist* 40: 221-225.
- Jørgensen, P.M. 2012a. Distribution and habitat of *Leptogium schraderi* in Norway. *Graphis Scripta* 24: 6-8.
- Jørgensen, P.M. 2012b. Collemataceae. In: Ahti et al. (eds), *Nordic Lichen Flora* 2:nd ed. 3: 14-42.
- Jørgensen, P.M. 2019. The troublesome genus *Thamnolia* (lichenized Ascomycota). *Lichenologist* 51: 221-226.
- Jørgensen, P.M., Vězda, A. & Botnen, A. 1983. *Clathroporina calcarea*, a misunderstood lichen species, and a note on the genus *Clathroporina* in Europe. *Lichenologist* 15: 45-55.
- Jørgensen, P.M., Printzen, C. & Tønnesberg, T. 2002. *Biatora amauropoda* Anzi, a superfluous name for *Lecidea pullata* (Norman) Th.Fr. *Graphis Scripta* 13: 25-27.
- Jørgensen, P.M., Grimstad, K.J. & Olsen, O. 2013a. *Epiphloea byssina* (Hoffm.) Henssen & P. M. Jørg., a new lichen to Norway. *Graphis Scripta* 25: 48-50.
- Jørgensen, P.M., Schultz, M. & Guttová, A. 2013b. Validation of *Anema tumidulum* (Lichinaceae, lichenized Ascomycota), a widespread cyanophilic lichen. *Herzogia* 26: 1-7.
- Kainz, C. & Rambold, G. 2004. A phylogenetic study of the lichen genus *Protoblastenia* in Central Europe. *Biblioth. Lichenol.* 88: 267-299.
- Kajanus, B. 1907. Die Flechtenvegetation des Sarekgebirges. In A. Hamberg: *Naturwissenschaftliche Untersuchungen des Sarekgebirges in Schwedisch-Lappland. III, Botanik:* 1-70.

- Kalb, K. & Hafellner, J. 1992. Bemerkenswerte Flechten und lichenicole Pilze von der Insel Madeira. *Herzogia* 9: 45-102.
- Kalb, K. 1976. Neue bzw. interessante Flechten aus (Mittel-) Europa I. *Herzogia* 4: 65–82.
- Kalb, K. 1988. Lichenes Neotropici Fasc. 10: 1-16 (n. 401-450). Neumarkt/Opf.
- Kalb, K. 1994. *Frutidella*, eine neue Flechtengattung für *Lecidea caesiota*. *Hoppea* 55: 581-586.
- Kalb, K. 2004. New or otherwise interesting lichens. II. *Biblioth. Lichenol.* 88: 301-329.
- Kalb, K. 2007. New or otherwise interesting lichens. III. *Biblioth. Lichenol.* 95: 297-316.
- Kalb, K., Hafellner, J. & Staiger, B. 1995. *Haematomma*-Studien. 2. Lichenicole Pilze auf Arten der Flechtengattung *Haematomma*. *Biblioth. Lichenol.* 59: 199-222.
- Kalb, K., Staiger, B., Elix, J.A., Lange, U. & Lumbsch, H.T. 2008. A new circumscription of the genus *Ramboldia* based on morphological and molecular evidence. *Nova Hedwigia* 86: 23-42.
- Kantelinen, A., Westberg, M., Owe-Larsson, B. & Svensson, M. 2021. New *Micarea* records from Norway and Sweden and an identification key to the *M. prasina* group in Europe. *Graphis Scripta* 33: 17-28.
- Kantvilas, G. & Elix, J.A. 2007. The genus *Ramboldia* (Lecanoraceae): a new species, key and notes. *Lichenologist* 39: 135-141.
- Kantvilas, G. 1995. Alpine lichens of Tasmania's south west wilderness. *Lichenologist* 27: 433-449.
- Kari, L.E. 1936. Beiträge zur Kenntnis der Flechtenflora Lapplands mit besonderer Berücksichtigungen der Erd- und Steinflechten auf Fjenden. *Turku University*, 1-35.
- Karlsson, T. 1998. Lavsläktet *Sarcogyne* på kalkhaltig berggrund i Sverige. Examensarbete, institutionen för naturvårdsbiologi, SLU. Nr 21.
- Karlsson, T. 2002. Tre förbisedda skinnlavar (*Leptogium*) i Östergötland: arkeologi och naturvårdsaspekter. *Lavbulletinen* 2002(2): 11-13.
- Karsten, P.A. & Hariot, P. 1890. *Ascomycetes novi*. *Rev. Mycol.* 12: 169-173.
- Karström, M. & Thor, G. 1991. Field meeting in Vuollerim, Lule Lappmark by Swedish lichenologists. *Graphis Scripta* 3: 84-93.
- Kaschik, M. 2006. Taxonomic studies on saxicolous species of the genus *Rinodina* (Physciaceae) in the Southern Hemisphere with emphasis in Australia and New Zealand. *Biblioth. Lichenol.* 93: 1-162.
- Kilander, S. 1952. Till kändedom om *Tholurna dissimilis*' ekologi. *Svensk Bot. Tidskr.* 46: 129-130.
- Kilias, H. 1981. Revision gesteinsbewohnender Sippen der Flechtengattung *Catillaria* Massal. in Europa. *Herzogia* 5: 209–448.
- Kilias, H. 1985. *Cephalophysis* (Hertel) Kilias gen. nov. eine weitere Gattung der Teloschistaceae mit einzelligen Sporen. *Herzogia* 7: 181-190.
- Kistenich, S., Timdal, E., Bendiksby, M. & Ekman, S. 2018. Molecular systematics and character evolution in the lichen family Ramalinaceae (Ascomycota: Lecanorales). *Taxon* 67: 871-904.
- Kivistö, L. 1998. Taxonomy of *Stereocaulon paschale* and allied species in Finland. *Sauteria* 9: 25-36.
- Kleiven, M. 1959. Studies on the xerophile vegetation on northern Gudbrandsdalen, Norway. *Nytt Mag. Bot.* 7: 1-60.
- Klepsland, J.T. & Timdal, E. 2010. *Usnocetraria oakesiana* (Parmeliaceae) new to Northern Europe. *Graphis Scripta* 22: 14-17.
- Klepsland, J.T. 2013. *Nephroma laevigatum* and *N. tangeriense* new to Norway. *Graphis Scripta* 25: 33-38.
- Klepsland, J.T. 2020. Thirty lichens and lichenicolous fungi new to Norway. *Graphis Scripta* 32: 120-143.

- Klinkenberg, E. 1979. Marine og maritime lav 1. Sotraregionen ved Bergen. Hovedfagsoppgave, Bergen.
- Knoph, J.-G. & Leuckert, C. 1997. Chemotypes and distribution pattern of the non-saxicolous species of *Lecidella*. *Biblioth. Lichenol.* 68: 129-134.
- Knoph, J.-G. & Leuckert, C. 2000. Chemotaxonomische Studien in der Gattung *Lecidella* (Lecanorales) III. *Herzogia* 14: 1-26.
- Knoph, J.-G. 1990. Untersuchungen an gesteinbewohnenden xanthonhaltigen Sippen der Flechtengattung *Lecidella* unter besonderer Berücksichtigung von aussereuropäischen Proben exkl. Amerika. *Biblioth. Lichenol.* 36: 1-183.
- Knoph, J.-G., Leuckert, C. & Hertel, H. 1995. Chemotypes and distribution patterns of saxicolous species of *Lecidella*. *Crypt. Bot.* 5: 45-54.
- Knox, M.D.E. 1982. Three new species of *Hypotrachyna* from South Africa. *Bryologist* 85: 118-121.
- Knudsen, K. & Kocourková, J. 2017. What is *Acarospora nitrophila* (Acarosporaceae)? *Bryologist* 120: 125-129.
- Knudsen, K. & Kocourková, J. 2008. A study of lichenicolous species of *Polysporina*. *Mycotaxon* 105: 149-164.
- Knudsen, K. & Lendemer, J.C. 2016. A new perspective on *Melanophloea*, *Thelocarpella* and *Trimmatothelopsis*: species previously placed in multiple families are united within a single genus in the *Acarosporaceae*. *Bryologist* 119: 266-279.
- Knudsen, K., Kocourková, J. & Westberg, M. 2013. The identity of *Sarcogyne hyphophaea* (Nyl.) Arnold. *Opuscula Philolichenum* 12: 23-26.
- Knudsen, K., Arcadia, L. & Kocourková, K. 2019. *Acarospora squamulosa*, the correct name for *A. peliocypha*. *Mycotaxon* 134: 281-287.
- Knutsson, T. 2015a. *Calogaya lobulata* dvärgpraktlav, ännu ej i själätåget. *Lavbulletinen* 2014(2): 64-66.
- Knutsson, T. 2015b. *Reichlingia leopoldii*, *Biatora veteranorum* och *Schismatomma cretaceum* i Sverige. *Lavbulletinen* 2014(2): 67-73.
- Knutsson, T., Johansson, T. & Lundkvist, H. 1999. Bark- och vedlevande lavar i Trollskogen, Böda, Öland. *Graphis Scripta* 10: 29-48.
- Koch, W. 1962. Die Gonidie von *Racodium rupestre* Pers. *Votr. Gesamtg. Bot. Deutsch. Bot. Gesell. N.F.* 1: 61-64.
- Kocourková, J. & Knudsen, K. 2010. *Stigmidium eucline* is not a synonym of *Stigmidium aggregatum*. *Opuscula Philolichenum* 8: 101-105.
- Kocourková, J. & Knudsen, K. 2011. Lichenological notes 2: *Lichenothelia convexa*, a poorly known rock-inhabiting and lichenicolous fungus. *Mycotaxon* 115: 345-351.
- Kocourková, J. 2000. Lichenicolous fungi of the Czech Republic. *Acta Mus. Nat. Pragae, Ser. B*, 55: 59-169.
- Kofler, L. 1956. Remarques sur les *Lecanora corticoles* du group *subfusca*. *Rev. Bryol. Lichénol.* 23: 167-182.
- Kondratyuk, S. & Kärnefelt, I. 1997. Notes on *Xanthoria* II. *Xanthoria poeltii*, a new lichen species from Europe. *Lichenologist* 29: 425-430.
- Košuthová, A., Fernández-Brime, S., Westberg, M. & Wedin, M. 2016. *Collolechia* revisited and a re-assessment of ascus characteristics in *Placynthiaceae* (Peltigerales, Ascomycota). *Lichenologist* 48: 3-12.
- Kotte, I. 1909. Einige neue Fälle von Nebensymbiose (Parasymbiose). 1-24 Inaugural-Dissertation, Hannover.
- Kristinsson, H. & Nordin, A. 2012. *Lempholemma intricatum* found in Iceland and Sweden. *Graphis Scripta* 24: 53-54.
- Kristinsson, H. 1968. *Peltigera orientalis* in Iceland. *Bryologist* 71: 38-40.

- Kristinsson, H. 1969. Chemical and morphological variation in the *Cetraria islandica* complex in Iceland. *Bryologist* 72: 344-357.
- Kristinsson, H. 1974. Two new *Cladonia* and some *Cetraria* species from Iceland. *Lichenologist* 6: 141-145.
- Krog, H. & James, P. 1977. The genus *Ramalina* in Fennoscandia and the British Isles. *Norw. J. Bot.* 24: 15-43.
- Krog, H. & Swinscow, T.D.V. 1979. *Parmelia* subgenus *Hypotrachyna* in East Africa. *Norw. J. Bot.* 26: 11-43.
- Krog, H. & Swinscow, T.D.V. 1986. *Solorina simensis* and *S. saccata*. *Lichenologist* 18: 57-62.
- Krog, H. & Swinscow, T.D.V. 1987. New species and new combinations in some parmelioid lichen genera, with special emphasis on East African taxa. *Lichenologist* 19: 419-431.
- Krog, H. 1966. Notes on the distribution of *Parmelia saximontana*. *Blyttia* 24: 244-246.
- Krog, H. 1967. On the identity of *Parmelia substygia* Räs. *Blyttia* 25: 33.
- Krog, H. 1968. The Microlichens of Alaska. *Norsk Polarinstitut Skr.* 144: 1-180.
- Krog, H. 1970. The Scandinavian members of the *Parmelia borreri* group. *Nytt Mag. Bot.* 17: 11-15.
- Krog, H. 1974. Taxonomic studies in the *Hypogymnia intestiniformis* complex. *Lichenologist* 6: 135-140.
- Krog, H. 1978. On *Parmelia protomatrae* (*Xanthoparmelia*), an overlooked lichen species in Europe. *Norw. J. Bot.* 25: 51-54.
- Krog, H. 1979. On the identity of *Bryoria vrangiana*. *Norw. J. Bot.* 26: 179-181.
- Krog, H. 1982. *Punctelia*, a new lichen genus in *Parmeliaceae*. *Nord. J. Bot.* 2: 287-292.
- Krzewicka, B. 2012. A revision of *Verrucaria* s. l. (*Verrucariaceae*) in Poland. *Polish Bot. Studies* 27: 1-143.
- Kukwa, M. & Diederich, P. 2005. *Monodictys epilepraria*, a new species of lichenicolous hyphomycetes on *Lepraria*. *Lichenologist* 37: 217-220.
- Kukwa, M. 2002. Taxonomic notes on the lichen genera *Lepraria* and *Leproloma*. *Ann. Bot. Fennici* 39: 225-226.
- Kukwa, M. 2009. The lichen genus *Ochrolechia* in Poland III with a key and notes on some taxa. *Herzogia* 22: 43-66.
- Kukwa, M. 2011. The lichen genus *Ochrolechia* in Europe. *Gdansk*, 309 pp.
- Kukwa, M., Schmitt, I. & Ertz, D. 2018. *Ochrolechia incarnata* comb. nov. (*Lecanoromycetes*, *Ascomycota*), a distinct species of the *O. parella* group from Europe and Macaronesia. *Phytotaxa* 371: 119-126.
- Kullhem, H.A. 1871. *Lichense rarores circa Mustiala lecti*. *Sällsk. pro Fauna Fl. Fenn.* 11: 271-276.
- Kurokawa, S. 1962. A note on the lichen genus *Tornabenia* Trev. *J. Japanese Bot.* 37: 289-294.
- Kuusinen, M. 1992. *Bryoria nadvornikiana* in Finland. *Graphis Scripta* 4: 78-80.
- Kuusinen, M., Stenroos, S. & Ahti, T. 1989. *Cladonia norvegica* and *C. incrassata* in Finland. *Graphis Scripta* 2: 128-133.
- Kuusinen, M., Puolasmaa, A. & Ahlholm, I. 1993. Distribution and ecology of five threatened lichen species on shaded rock faces in Finland. *Mem. Soc. Fauna Fl. Fenn.* 69: 21-31.
- Kuusinen, M., Kaipainen, H., Puolasmaa, A. & Ahti, T. 1995. Threatened lichens in Finland. *Crypt. Bot.* 5: 247-251.

- Kümmerling, H. & Alstrup, V. 1992. Some peltigericolous fungi, mainly from Scandinavia. *Graphis Scripta* 3: 120-121.
- Kümmerling, H., Leuckert, C. & Wirth, V. 1991. Chemische Flechtenanalysen VI. *Lepraria incana*. *Nova Hedwigia* 53: 507-517.
- Kümmerling, H., Triebel, D. & Rambold, G. 1993. *Lepraria neglecta* and its lichenicolous fungi. *Biblioth. Lichenol.* 53: 147-160.
- Kümmerling, H., Leuckert, C. & Wirth, V. 1994. Chemische Flechtenanalysen IX. *Lecanactis latebrarum*. *Nova Hedwigia* 58: 437-446.
- Kåll, S. & Tønsberg, T. 2002. *Micarea adnata* new to Norway. *Graphis Scripta* 13: 1-3.
- Källsten, L. 1975. *Ramalina siliquosa* i Sverige. 3-betygsarbete, Systematisk botanik, Uppsala universitet.
- Källsten, L. 1993. The genus *Opegrapha* in Sweden. Uppsala, stencil, 110 pp.
- Kärenlampi, L. 1965. On the lichens of the oak zone in southwestern Finland (in Finnish). *Turun Ylioppilas* 12: 86-103.
- Kärnefelt, I. & Mattsson, J.-E. 1989. *Cetraria cucullata* and *C. nivalis*, two vanishing lichens from southernmost Sweden. *Int. J. Mycol. Lichenol.* 4: 299-305.
- Kärnefelt, I. & Thell, A. 1995. Genotypical variation and reproduction in natural populations of *Thamnolia*. *Biblioth. Lichenol.* 58: 213-234.
- Kärnefelt, I. 1977. Three new species of brown fruticose *Cetraria*. *Bot. Notiser* 130: 125-129.
- Kärnefelt, I. 1979. The brown fruticose species of *Cetraria*. *Opera Bot.* 46: 1-150.
- Kärnefelt, I. 1986. The genera *Bryocaulon*, *Coelocaulon* and *Cornicularia* and formerly associated taxa. *Opera Bot.* 86: 1-90.
- Kärnefelt, I., Mattsson, J.-E. & Thell, A. 1993. The lichen genera *Arctocetraria*, *Cetraria* and *Cetrariella* and their presumed evolutionary affinities. *Bryologist* 96: 394-404.
- Kärnefelt, I., Thell, A., Randle, T. & Saag, A. 1994. The genus *Flavocetraria* Kärnefelt & Thell and its affinities. *Acta Bot. Fenn.* 150: 79-86.
- Körber, G.W. 1859-1865. *Parerga lichenologica*. Breslau.
- LaGreca, S. & Lumbsch, H.T. 2013. Taxonomic investigations of *Lecanora strobilina* and *L. symmicta* (Lecanoraceae, Lecanorales) in northeastern North America. *Bryologist* 116: 287-295.
- Lamb, I.M. & Ward, A. 1974. A preliminary conspectus of the species attributed to the imperfect lichen genus *Leprocaulon* Nul. *J. Hattori Bot. Lab.* 38: 499-553.
- Lamb, I.M. 1961. Two new species of *Stereocaulon* occurring in Scandinavia. *Bot. Notiser* 114: 265-275.
- Lamb, I.M. 1972. *Stereocaulon arenarium* (Sav.) M. Lamb, a hitherto overlooked boreal-arctic lichen. *Occ. Pap. Farlow Herb.* 2: 1-10.
- Lamb, I.M. 1977. A conspectus of the lichen genus *Stereocaulon*. *J. Hattori Bot. Lab.* 43: 191-355.
- Lange, M. 1992. *Omphalina*. In: *Nordic macromycetes* 2: 170-174.
- Larsson, K.-H. (ed.) 1997. *Rödlistade svampar i Sverige - Artfakta*. Artdatabanken, SLU, Uppsala, 547 pp.
- Larsson, U. 2012. On getlav, liten getlav och många andra arters utbredning i Göteborg med omgivningar. *Lavbulletinen* 2012(2): 44-49.
- Larsson, F. 2020a. *Strandskinnlav* i västra Jämtland. *Lavbulletinen* 2019(2): 50-53.
- Larsson, F. 2020b. *Klot-tegellav Psora globifera* återfunnen i Jämtland efter 102 år. *Lavbulletinen* 2020(2): 63-66.

- Larsson, F. 2020c. *Urnlav Tholurna dissimilis* funnen på ledkryss i västra Jämtland. *Lavbulletinen* 2020(2): 67-70.
- Laundon, J.R. & Waterfield, A. 2007. William Borrer's lichens in the Supplement to the English Botany 1829–1866. *Bot. J. Linn. Soc.* 154: 381-392.
- Laundon, J.R. 1958. Lichens new to the British flora: 1. *Lichenologist* 1: 31-38.
- Laundon, J.R. 1960. Lichens new to the British flora: 2. *Lichenologist* 1: 158-168.
- Laundon, J.R. 1963. The taxonomy of sterile crustaceous lichens in the British Isles. 2. Corticolous and lignicolous species. *Lichenologist* 2: 101-151.
- Laundon, J.R. 1965. Lichens new to the British flora: 3. *Lichenologist* 3: 65-71.
- Laundon, J.R. 1967. A study of the lichen flora of London. *Lichenologist* 3: 277-327.
- Laundon, J.R. 1970. Lichens new to the British flora: 4. *Lichenologist* 4: 297-308.
- Laundon, J.R. 1974. *Leproplaca* in the British Isles. *Lichenologist* 6: 102-105.
- Laundon, J.R. 1976. Lichens new to the British flora. *Lichenologist* 8: 139-150.
- Laundon, J.R. 1978. *Haematomma* chemotypes from fused thalli. *Lichenologist* 10: 221-225.
- Laundon, J.R. 1981. The species of *Chrysothrix*. *Lichenologist* 13: 101-121.
- Laundon, J.R. 1984a. The typification of Withering's neglected lichens. *Lichenologist* 16: 211-239.
- Laundon, J.R. 1984b. Studies in the nomenclature of British lichens I. *Lichenologist* 16: 53-57.
- Laundon, J.R. 1986. Studies in the nomenclature of British lichens II. *Lichenologist* 18: 169-177.
- Laundon, J.R. 1989. The species of *Leproloma* - the name for the *Lepraria membranacea* group. *Lichenologist* 21: 1-22.
- Laundon, J.R. 1992a. *Lepraria* in the British Isles. *Lichenologist* 24: 315-350.
- Laundon, J.R. 1992b. *Pertusaria aspergilla*, the correct name for *P. dealbata* auct. (lichenized Ascomycotina: Pertusariales). *Taxon* 41: 744-745.
- Laundon, J.R. 2005. The publication and typification of Sir James Edward Smith's lichens in English Botany. *Bot. J. Linn. Soc.* 147: 483-499.
- Laundon, J.R. 2010. *Lecanora antiqua*, a new saxicolous species from Great Britain, and the nomenclature and authorship of *L. albescens*, *L. conferta* and *L. muralis*. *Lichenologist* 42: 631-636.
- Launis, A. & Myllys, L. 2019. *Micarea fennica*, a new lignicolous lichen species from Finland. *Phytotaxa* 409: 179-188.
- Launis, A., Malicek, J., Svensson, M., Tsurukau, A., Sérusiaux, E. & Myllys, L. 2019a. Sharpening species boundaries in the *Micarea prasina* group, with a new circumscription of the type species *M. prasina*. *Mycologia* 111: 574-592.
- Launis, A., Pykälä, J., van den Boom, P., Sérusiaux, E. & Myllys, L. 2019b. Four new epiphytic species in the *Micarea prasina* group from Europe. *Lichenologist* 51: 7-25.
- Lendemer, J.C. & Hodkinson, B.P. 2013. A radical shift in the taxonomy of *Lepraria* s.l.: molecular and morphological studies shed new light on the evolution of asexuality and lichen growth form diversification. *Mycologia* 105: 994-1018.
- Lendemer, J.C. 2013. A monograph of the crustose members of the genus *Lepraria* Ach. s. str. (Stereocaulaceae, Lichenized Ascomycetes) in North America north of Mexico. *Opuscula Philolichenum* 12: 27-141.
- Lettau, G. 1937a. Monographische Bearbeitung einiger Flechtenfamilien. *Feddes Repert. Beih.* 69: 97-177.
- Lettau, G. 1937b. Monographische Bearbeitung einiger Flechtenfamilien. *Feddes Repert. Beih.* 69: 177-250.

- Lettau, G. 1958. Flechten aus Mitteleuropa 14 and Index. Feddes Rept. 61: 105-192.
- Leuckert, C. & Hertel, H. 1967. Über Flechtenstoffe und Systematik einiger Arten der Gattung Lecidea. Nova Hedwigia 014: 291-300.
- Leuckert, C. & Hertel, H. 1969. Über Flechtenstoffe und Systematik einiger Arten der Gattungen Lecidea 2. Nova Hedwigia 27: 31-43.
- Leuckert, C. & Kümmerling, H. 1991. Chemotaxonomische Studien in der Gattung Leproloma. Nova Hedwigia 52: 17-32.
- Leuckert, C. & Mathey, A. 1975. Beiträge zur Chemotaxonomie einiger xanthon-haltiger Arten der Flechtengattung Buellia. Herzogia 3:461-488.
- Leuckert, C. & Poelt, J. 1970. Cladonia conistea in Mitteleuropa. Herzogia 1: 441-445.
- Leuckert, C. & Poelt, J. 1989. Studien über die Lecanora rupicola-Gruppe in Europa. Nova Hedwigia 49: 121-167.
- Leuckert, C., Ziegler, H.G. & Poelt, J. 1971. Zue Kenntnis der Cladonia chlorophaea-Gruppe under ihrer Problematik in Mitteleuropa. Nova Hedwigia 22: 503-534.
- Leuckert, C., Poelt, J., Schultz, I. & Schwarz, B. 1975a. Chemotaxonomie und stammesgeschichtliche Differenzierung des Formenkreises von Parmelia proluxa in Europa (Lichenes, Parmeliaceae). Decheniana 127: 1-36.
- Leuckert, C., Sudaszewski, U. & Hertel, H. 1975b. Chemische Rassen bei Dimelaena oreina (Ach.) Norm. unter besonderer Berücksichtigung der Verhältnisse in Mitteleuropa (Lichenes, Physciaceae). Bot. Jahrb. Syst. 96: 238-255.
- Leuckert, C., Buschardt, A. & Hertel, H. 1981. Die Verteilung der Chemotypen von Dimelaena oreina (Lichenes) auf verschiedene Höhenstufen an einem Transekt im Vinschgau (Südtirol, Italien). Nova Hedwigia 34: 623-632.
- Leuckert, C., Knoph, J.-G. & Hertel, H. 1992. Chemotaxonomische Studien in der Gattung Lecidella II. Herzogia 9: 1-17.
- Leuckert, C., Kümmerling, H. & Wirth, V. 1995. Chemotaxonomy of Lepraria and Leproloma, with particular reference to Central Europe. Biblioth. Lichenol. 58: 245-259.
- Leuckert, C., Wirth, V., Kümmerling, H. & Henklau, M. 2002. Chemische Flechtenanalysen XIII. Lepraria eburnea. Herzogia 15: 19-25.
- Lewis, J.R. 1965. The littoral fringe on rocky coasts of southern Norway and western Sweden. Bot. Gothoburg. 3: 129-143.
- Lindahl, P.-O. 1953. The taxonomy and ecology of some Peltigera species, P. canina (L.) Willd., P. refescens (Weis) Humb., P. praetextata (Flk.) Vain. Svensk Bot. Tidskr. 47: 94-106.
- Lindahl, P.-O. 1957. Några märkligare lavfynd i sydvästra Norge. Svensk Bot. Tidskr. 51: 563-564.
- Lindahl, P.-O. 1962. Taxonomical aspects of some Peltigera species. P. scutata (Dicks.) Duby, P. scabrosa Th. Fr. and P. pulverulenta (Tayl.) Nyl. Svensk Bot. Tidskr. 56: 471-476.
- Lindblom, L. & Blom, H.H. 2010. Kalkväggglav återfunnen på bark i Skåne. Lavbulletinen 2010(3): 169-171.
- Lindblom, L. & Blom, H.H. 2014. Xanthomendoza poeltii is a synonym of X. oregana (Teloschistaceae, lichen-forming ascomycetes). Lichenologist 46: 829-832.
- Lindblom, L. & Ekman, S. 2005. Molecular evidence supports the distinction between Xanthoria parietina and Xanthoria aureola (Teloschistaceae, lichenized Ascomycota). Mycol. Res. 109: 187-199.
- Lindblom, L. & Timdal, E. 2004. Xanthoria fallax in Norway. Graphis Scripta 16: 58-60.
- Lindblom, L. 1990. Skorplavsläktet Lepraria i Skåne. Examensarbete Lunds Lund universitet 1-15.

- Lindblom, L. 1995. Släktet *Lepraria* i Skåne. *Graphis Scripta* 7: 49-60.
- Lindblom, L. 2007. Äntligen - ett skåniskt fynd av fjällig väggglav. *Lavbulletinen* 2007(1): 16-18.
- Lindblom, L., Ladstein, M.H., Blom, H.H., Ekman, S. & Timdal, E. 2005. *Xanthoria aureola* in Norway and a key to the species of *Xanthoria* s. str. in Scandinavia. *Graphis Scripta* 17: 12-16.
- Lindblom, L., Blom, H.H. & Timdal, E. 2019. The genus *Xanthomendoza* in Norway. *Graphis Scripta* 31: 54-75.
- Lindgren, H., Diederich, P., Goward, T. & Myllys, L. 2015. The phylogenetic analysis of fungi associated with lichenized ascomycete genus *Bryoria* reveals new lineages in the Tremellales including a new species *Tremella huuskonenii* hyperparasitic on *Phacopsis huuskonenii*. *Fungal Biology* 119: 844
- Lindqvist, M. 1986. Ny svensk lokal för oceaniska laven *Sticta limbata*. *Windahlia* 15: 45-47.
- Lindsay, W.L. 1869a. Enumeration of microlichens parasitic on other lichens, cont. *Quarterly J. microscop. Sci.* 9: 342-358.
- Lindsay, W.L. 1869b. Observations on new lichenicolous micro-fungi. *Trans. R. Soc. Edinb.* 25: 513-555.
- Lindsay, W.L. 1871. Observations on the lichens collected by Dr. Robert Brown in West Greenland in 1867. *Trans. Linn. Soc. London* 27: 305-368.
- Linkola, K. 1932. *Ramalina angustissima* (Anzi) Vain. in Binnen-Finnland. *Mem. Soc. Fauna Fl. Fenn.* 7: 261-267.
- Litterski, B. & Ahti, T. 2004. World distribution of selected European *Cladonia* species. *Symb. Bot. Upsal.* 34(1): 205-236.
- Litterski, B. 1992. Verbreitung einiger Flechtenarten in Europa. *Herzogia* 9: 149-166.
- Llano, G.A. 1950. A monograph of the lichen family Umbilicariaceae in the Western Hemisphere. Office of Naval Research, Washington 281 pp.
- Llop, E. & Ekman, S. 2007. *Bacidia coprodes* - resurrecting a misinterpreted species. *Lichenologist* 39: 251-257.
- Lohtander, K. 1994. The genus *Lepraria* in Finland. *Ann. Bot. Fennici* 31: 223-231.
- Lohtander, K. 1995. The lichen genus *Leproloma* in Finland and some notes on the *Lepraria neglecta* group. *Ann. Bot. Fennici* 32: 49-54.
- Lohtander, K., Myllys, L., Källersjö, M., Moberg, R., Stenroos, S. & Tehler, A. 2009. New entities in *Physcia aipolia*-*Physcia caesia* group (*Physciaceae*): an analysis based on mtSSU, ITS, group I intron and betatubulin sequences. *Ann. Bot. Fennici* 46: 043-53.
- Lommi, S. 1993. Takkuhankajakälä, esimerkki silmälläpidettävistä jäkälistä. *Lutukka* 9: 63.
- Lorentsson, S. 1998. Skillnader mellan *Ramalina baltica*, *hjälmrosklav*, och *R. obtusata*, trubbig brosklav. *Svensk Bot. Tidskr.* 91: 591-598.
- Lowen, R. & Diederich, P. 1990. *Pronectria xanthoriae* and *P. terrestris*, two new lichenicolous fungi (*Hypocreales*). *Mycologia* 82: 788-791.
- Lowen, R. & Hawksworth, D.L. 1986. *Nectriella santessonii*, a new lichenicolous pyrenomycete with an *Acremonium* anamorph. *Lichenologist* 18: 321-238.
- Lowen, R. 1989. Two new species of *Nectriella* and an *Acremonium* anamorph. *Mem. New York Bot. Garden* 49: 243-252.
- Lowen, R. 1990. New combinations in *Pronectria*. *Mycotaxon* 039: 461-463.
- Lowen, R. 1995. *Acremonium* section *Lichenoidea* section nov. and *Pronectria oligospora* species nov. *Mycotaxon* 53: 81-95.
- Lowen, R., Brady, B.L., Hawksworth, D.L. & Paterson, R.R.M. 1986. Two new lichenicolous species of *Hobsonia*. *Mycologia* 78: 842-846.
- Lumbsch, H.T. & Feige, G.B. 1994. Comments on the exsiccata "Lecanoroid lichens" II. *Mycotaxon* 52: 429-442.

- Lumbsch, H.T. & Guderley, R. 1997. *Lecanora vacillans* H. Magn., a remarkable species and its taxonomic significance. *Lichenologist* 29: 29-34.
- Lumbsch, H.T. & Hawksworth, D.L. 1990. The species of *Lethariicola*. *Biblioth. Lichenol.* 38: 325-333.
- Lumbsch, H.T. & Heibel, E. 1998. *Coppinsia minutissima*, a new genus and species in the *Argyriaceae* from the British Isles. *Lichenologist* 30: 95-101.
- Lumbsch, H.T. 1989. Die Holarktischen Vertreter der Flechtengattung *Diploschistes* (*Thelotrema*aceae). *J. Hattori Bot. Lab.* 66: 133-196.
- Lumbsch, H.T. 1991. Die Fruchtkörperontogenie bei *Bacidia bagliettoana* (Massal. & de Not.) Jatta mit Bemerkungen zur Gattung *Bacidia* de Not. *Nova Hedwigia* 52: 419-426.
- Lumbsch, H.T. 1997. Systematic studies in the suborder *Argyriinae* (*Lecanorales*). *J. Hattori Bot. Lab.* 83: 1-73.
- Lumbsch, H.T., Kothe, H.W. & Elix, J.A. 1988. Resurrection of the lichen genus *Pleurosticta* Petrak. *Mycotaxon* 033: 447-455.
- Lumbsch, H.T., Plümper, M., Guderley, R. & Feige, G.B. 1997. The corticolous species of *Lecanora* with pruinose apothecial discs. *Symb. Bot. Upsal.* 32(1): 131-162.
- Lumbsch, H.T., Schmitt, I., Döring, H. & Wedin, M. 2001. ITS sequence data suggest variability of ascus types and support ontogenetic characters as phylogenetic discriminators in the *Argyriales*. *Micol. Res.* 105: 265-274.
- Lumbsch, H.T., Prado, R. & Kantvilas, G. 2005. *Gregorella*, a new genus to accommodate *Moelleropsis humida* and a molecular phylogeny of *Arctomiaceae*. *Lichenologist* 37: 291-302.
- Luther, H. 1954. Über Krustenbewuchs an Steinen fließender Gewässer, speziell in Südfinnland. *Acta Bot. Fenn.* 55: 1-61.
- Lutzoni, F.M. & Brodo, I.M. 1994. (1139) Proposal to conserve the name *Gyalecta suaveolens* Fr. (lichenized *Ascomycota*) with a conserved type. *Taxon* 43: 657-659.
- Lutzoni, F.M. & Brodo, I.M. 1995. A genetic redelimitation of the *Ionaspis-Hymenelia* complex. *Syst. Bot.* 20: 224-258.
- Lücking, R. & Kalb, K. 2000. Foliikole Flechten aus Brasilien (vornehmlich Amazonien) inklusive einer Checkliste und Bemerkungen zu *Coenogonium* und *Dimerella* (*Gyalectaceae*). *Bot. Jahrb. Syst.* 122: 1-61.
- Lücking, R. 2008. Foliicolous lichenized fungi. *Flora Neotropica Monograph* 103: 1-866.
- Lücking, R., Stuart, B.L. & Lumbsch, H.T. 2004. Phylogenetic relationships of *Gomphillaceae* and *Asterothyriaceae*: evidence from a combined Bayesian analysis of nuclear and mitochondrial sequences. *Mycologia* 96: 283-294.
- Lücking, R., Sérusiaux, E. & Vězda, A. 2005. Phylogeny and systematics of the lichen family *Gomphillaceae* (*Ostropales*) inferred from cladistic analysis of phenotype data. *Lichenologist* 37: 123-170.
- Lye, K.A. 1969. The distribution and ecology of *Sphaerophorus melanocarpus*. *Svensk Bot. Tidskr.* 63: 300-318.
- Lynge, B. 1921a. Studies on the lichen flora of Norway. *Vidensk. Selsk. Skr., 1. Mat.-Naturv. Kl.*, 1921(7): 1-252.
- Lynge, B. 1921b. Om lavenes utbredelse i Norge. *Naturen* 45: 148-158, 167-174, 240-250.
- Lynge, B. 1928. Lichens from Novaya Zemlya. *Report Sci. Results Norwegian Expedition to Novaya Zemlya 1921*, 43: 1-299.
- Lynge, B. 1937. Lichens from west Greenland collected chiefly by Th. M. Fries. *Meddelelser om Grønland* 118(8): 1-225.

- Lynge, B. 1938. Lichens from the west and north coasts of Spitsbergen and the North-east Land. I. Macrolichens. Det Norske Vidensk.-Akad. Oslo, 1. Mat.-Naturv. Klasse 6: 1-136.
- Lynge, B. 1940. Lichens from north east Greenland. II Microlichens. Norges Svalbard- og Ishavsundersøkelser, skrifter om Svalbard och Ishavet 81: 1-143.
- Løfall, B.P. & Timdal, E. 2002. *Cladonia krogiana*, a new xanthone-containing species from Norway. *Lichenologist* 34: 277-281.
- Løfall, B.P. & Timdal, T. 2005. *Umbilicaria decussata* and *Umbilicaria lyngei* in Norway and Svalbard. *Graphis Scripta* 17: 43-47.
- Löfgren, O. & Moberg, R. 1984. Oceaniska lavar i Sverige och deras tillbakagång. Naturvårdsverket, Rapport snv pm 1819: 1-50.
- Löfgren, O. & Tibell, L. 1979. *Sphinctrina* in Europe. *Lichenologist* 11: 109-137.
- Lönnell, N. 2005. Lergelélav *Collema limosum* återfunnen i Uppland. *Lavbulletinen* 2005(2): 52-56.
- Lönnroth, K.J. 1858. Descriptiones generum specierumque lichenum, quas novas invenit vel limitibus novis. *Flora* 41: 611-620, 627-635.
- Magain, N., Spribille, T., DiMeglio, J., Nelson, P.R., Miadlikowska, J. & Sérusiaux, E. 2020. Phylogenetic evidence for an expanded circumscription of *Gabura* (Arctomiaceae). *Lichenologist* 52: 003-15.
- Magnusson, A.H. 1923. New or interesting Swedish lichens 1. *Bot. Notiser* 1923: 401-416.
- Magnusson, A.H. 1924a. New or interesting Swedish lichens 2. *Bot. Notiser* 1924: 377-391.
- Magnusson, A.H. 1924b. A monograph of the Scandinavian species of the genus *Acarospora*. Göteborgs Kungl. Vet.- Vitterhets-Samh. Handl. 4, 28(2): 1-149.
- Magnusson, A.H. 1924c. New species of the genus *Acarospora*. *Svensk Bot. Tidskr.* 18: 329-342.
- Magnusson, A.H. 1925a. Studies in the *Rivulosa*-group of the genus *Lecidea*. Göteborgs Kungl. Vet.- Vitterhets-Samh. Handl. 4, 29(4): 1-50.
- Magnusson, A.H. 1925b. Några märkligare lavfynd. *Svensk Bot. Tidskr.* 19: 111-114.
- Magnusson, A.H. 1926a. New or interesting Swedish lichens 3. *Bot. Notiser* 1926: 227-237.
- Magnusson, A.H. 1926b. Studies on boreal *Stereocaula*. Göteborgs Kungl. Vet.- Vitterhets-Samh. Handl. 4, 30(7): 1-89.
- Magnusson, A.H. 1926c. New or misunderstood european lichens. *Medd. Göteborgs Bot. Trädgård* 2: 71-82.
- Magnusson, A.H. 1927. New or interesting Swedish lichens 4. *Bot. Notiser* 1927: 115-127.
- Magnusson, A.H. 1929a. A monograph of the genus *Acarospora*. *K. Svenska Vetensk.-Akad. Handl. ser. 3*, 7(4): 1-400.
- Magnusson, A.H. 1929b. New or interesting Swedish lichens 5. *Bot. Notiser* 1929: 110-122.
- Magnusson, A.H. 1930a. New or interesting Swedish lichens 6. *Bot. Notiser* 1930: 459-476.
- Magnusson, A.H. 1930 ("1931"). New or otherwise interesting *Lecanora* species. *Medd. Göteborgs Bot. Trädgård* 6: 1-20.
- Magnusson, A.H. 1931. Studien über einige arten der *Lecidea armeniaca*- und *elata*-Gruppe. *Acta Horti Gotob.* 6: 93-144.
- Magnusson, A.H. 1932a. New or interesting Swedish lichens 7. *Bot. Notiser* 1932: 417-444.
- Magnusson, A.H. 1932b. Beiträge zur Systematik der Flechtengruppe *Lecanora subfusca*. *Medd. Göteborgs Bot. Trädgård* 7: 65-87.
- Magnusson, A.H. 1933. A monograph of the lichen genus *Ionaspis*. *Acta Horti Gotob.* 8: 1-47.
- Magnusson, A.H. 1934. New or interesting Swedish lichens 8. *Bot. Notiser* 1934: 457-479.

- Magnusson, A.H. 1935a. Några märkligare lavfynd, huvudsakligen från Västkusten. Svensk Bot. Tidskr. 29: 119-123.
- Magnusson, A.H. 1935b. Om några västliga skorplavars utbredning på Sveriges västkust. Svensk Bot. Tidskr. 29: 1-26.
- Magnusson, A.H. 1935c. Acarosporaceae, Thelocarpaceae. Rabenhorst's Krypt.-Fl., ed. 2, 9, 5, 1(1): 1-318.
- Magnusson, A.H. 1935d. The lichen genus *Acarospora* in Greenland and Spitsbergen. Nytt Mag. Naturvid. 75: 221-241.
- Magnusson, A.H. 1935e. Lich. Sel. Scand. exs. Fasc. 8 (176-200). Göteborg, 4 pp.
- Magnusson, A.H. 1936a. Neue Flechten aus dem Jemesei-Gebiet. Svensk Bot. Tidskr. 30: 247-263.
- Magnusson, A.H. 1936b. Förteckning över Skandinavien växter. 4. Lavar. 91 pp.
- Magnusson, A.H. 1936c. Två lavexkursioner i västra Sverige. Medd. Göteborgs Bot. Trädgård 11: 43-60.
- Magnusson, A.H. 1937. New or interesting Swedish lichens 9. Bot. Notiser 1937: 124-140.
- Magnusson, A.H. 1938. Eine europäische Art von *Leprocollema* Wain. Hedwigia 78: 219-221.
- Magnusson, A.H. 1939a. Studies in species of *Lecanora*. K. Svenska Vetensk.-Akad. Handl. ser. 3, 17(5): 1-182.
- Magnusson, A.H. 1939b. New or otherwise interesting Swedish lichens. 10. Bot. Notiser 1939: 302-314.
- Magnusson, A.H. 1939c. Lich. Sel. Scand. exs. Fasc. 12 (276-300). Göteborg, 4 pp.
- Magnusson, A.H. 1942a. En fyndplats för lavar på ovanliga substrat. Medd. Göteborgs Bot. Trädgård 15: 149-155.
- Magnusson, A.H. 1942b. New or otherwise interesting Swedish lichens. 11. Bot. Notiser 1942: 1-18.
- Magnusson, A.H. 1944. Studies in the Ferruginea-group of the genus *Caloplaca*. Göteborgs Kungl. Vet.- Vitterhets-Samh. Handl. 6, ser. B, 3(1): 1-71.
- Magnusson, A.H. 1945a. Contribution to the taxonomy of the *Lecidea goniophila* group. Acta Horti Gotob. 16: 125-134.
- Magnusson, A.H. 1945b. New or otherwise interesting Swedish lichens. 11. Bot. Notiser 1945: 304-314.
- Magnusson, A.H. 1946. Lichens from Lycksele Lappmark and adjacent part of Norway. Arkiv Bot. 33A(1): 1-146.
- Magnusson, A.H. 1947. Studies in non-saxicolous species of *Rinodina* mainly from Europe and siberia. Medd. Göteborgs Bot. Trädgård 17: 191-338.
- Magnusson, A.H. 1948a. Lichens from Möre Fylke in Western Norway. Arkiv Bot. 33A(16): 1-36.
- Magnusson, A.H. 1948b. New or otherwise interesting Swedish lichens. 13. Bot. Notiser 1948: 401-412.
- Magnusson, A.H. 1948c. Some lichens from the environs of Oslo. Blyttia 6: 41-48.
- Magnusson, A.H. 1949a. En lavexkursion på Norges sydkust. Nytt Mag. Naturvid. 87: 197-220.
- Magnusson, A.H. 1949b. Some new Norwegian lichens. Blyttia 7: 29-35.
- Magnusson, A.H. 1950a. On some species of *Blastenia* and *Caloplaca* with black apothecia. Bot. Notiser 1950: 369-386.
- Magnusson, A.H. 1950b. Tillägg och ändringar .. stensil.
- Magnusson, A.H. 1951. New or otherwise interesting Swedish lichens. 14. Bot. Notiser 1951: 64-82.
- Magnusson, A.H. 1952a. Lichens from Torne Lappmark. Arkiv Bot. ser. 2, 2(2): 45-249.
- Magnusson, A.H. 1952b. Key to the species of *Lecidea* in Scandinavia and Finland. I. Saxicolous species. Svensk Bot. Tidskr. 46: 178-198.

- Magnusson, A.H. 1952c. Key to the species of *Lecidea* in Scandinavia and Finland. II. Non-axicolous species. *Svensk Bot. Tidskr.* 46: 313-323.
- Magnusson, A.H. 1952d. *Lich. Sel. Scand. exs. Fasc.* 16 (376-400). Göteborg, 4 pp.
- Magnusson, A.H. 1954. New lichens. *Bot. Notiser* 1954: 192-201.
- Magnusson, A.H. 1955. New or otherwise interesting Swedish lichens. 15. *Bot. Notiser* 108: 292-306.
- Magnusson, A.H. 1956a. A second supplement to the monograph of *Acarospora* with keys. Göteborgs Kungl. Vet.- Vitterhets-Samh. *Handl.* 6, ser. B, 6 (17): 1-34.
- Magnusson, A.H. 1956b. New European lichens. *Bot. Notiser* 109: 143-152.
- Magnusson, A.H. 1957. Some interesting lichens from Norway. *Nytt Mag. Naturvid.* 5: 17-21.
- Malicek, J., Palice, Z., Vondrák, J. & Tønsberg, T. 2020. *Japewia aliphatica* (Lecanoraceae, lichenized Ascomycota), a new acidophilous, sorediate-blastidiate lichen from Europe. *Phytotaxa* 461: 21-30.
- Malme, G.O.A. 1895a. Lichenologiska notiser. III. *Bot. Notiser* 1895: 137-146.
- Malme, G.O.A. 1895b. Lichenologiska notiser. IV. *Bot. Notiser* 1895: 207-213.
- Malme, G.O.A. 1910. *Lichenes suecici exsiccati*, Fasc. 7 (N:i 151-175). Stockholm.
- Malme, G.O.A. 1911. Malme, *Lichenes suecici exsiccat.* *Svensk Bot. Tidskr.* 4: (162)-(165).
- Malme, G.O.A. 1914a. Västra Jämtlands *Rhizocarpon*-arter. *Svensk Bot. Tidskr.* 8: 273-294.
- Malme, G.O.A. 1914 ("1913"). Malme, *Lichenes suecici exsiccati.* *Svensk Bot. Tidskr.* 7: 374-377.
- Malme, G.O.A. 1918a. Lichenologiska notiser. 11-18. *Svensk Bot. Tidskr.* 12: 117-122.
- Malme, G.O.A. 1918b. Några ord om alpina lavars förekomst i barrskogsregionen. *Svensk Bot. Tidskr.* 12: 288-297.
- Malme, G.O.A. 1919a. De svenska arterna av lavsläktet *Staurothele* Norm. *Svensk Bot. Tidskr.* 13: 194-203.
- Malme, G.O.A. 1919b. *Lichenes suecici novi.* *Svensk Bot. Tidskr.* 13: 26-31.
- Malme, G.O.A. 1923a. Die Flechten der ersten Regnell'schen Expedition. Die gattungen *Bombyliospora*, *Megalospora*, *Catillaria* und *Rhizocarpon*. *Arkiv Bot.* 18(12): 1-17.
- Malme, G.O.A. 1923b. Lichenologiska notiser. 27-34. *Svensk Bot. Tidskr.* 17: 369-375.
- Malme, G.O.A. 1924. Lichenologiska notiser. 35-41. *Svensk Bot. Tidskr.* 18: 312-318.
- Malme, G.O.A. 1927. Lichenologiska notiser. 42-46. *Svensk Bot. Tidskr.* 21: 251-259.
- Malme, G.O.A. 1931. Två märkliga lavfynd på ön Karta i Sorunda (Södertörn). *Svensk Bot. Tidskr.* 25: 271-272.
- Malme, G.O.A. 1932a. *Lichense orae Sibiriae Borealis.* *Arkiv Bot.* 25A(2): 1-42.
- Malme, G.O.A. 1932b. *Verrucaria aquatilis* Mudd, en sötvattenslav, anträffad i Sverige. *Svensk Bot. Tidskr.* 26: 458-460.
- Malme, G.O.A. 1935. Stenshuvuds lavflora. K. Svenska Vetensk.-Akad. Skr. Natusskyddsärenden 28: 1-22.
- Malme, G.O.A. 1937. Lichenologiska notiser. 47-52. *Svensk Bot. Tidskr.* 31: 176-185.
- Malmqvist, A., Westberg, M., Hultengren, S. & Arvidsson, L. 2012. Daggig punktsköldlav och punktsköldlav - gamla och nya bekantskaper i Sverige. *Svensk Bot. Tidskr.* 106: 3-10.
- Marthinsen, G., Rui, S. & Timdal, E. 2019. OLICH: A reference library of DNA barcodes for Nordic countries. *Biodiversity Data Journal* 7: 1-146.

- Mattick, F. 1940. *Buellia epigaea* (Pers.) Tuck., eine mitteleuropäisch-kontinentale Erdflechte. Ber. Deutsch. Bot. Ges. 58: 328-345.
- Mattsson, J.-E. & Lai, M.J. 1993. *Vulpicida*, a new genus in Parmeliaceae. *Mycotaxon* 046: 425-428.
- Mattsson, J.-E. 1988. Några *Cetraria*-arter tillbakagång i södra Sverige. *Svensk Bot. Tidskr.* 82: 27-31.
- Mattsson, J.-E. 1991. Protein banding patterns in some American and European species of *Cetraria*. *Bryologist* 94: 261-269.
- Mattsson, J.-E. 1993. A monograph of the genus *Vulpicida*. *Opera Bot.* 119: 1-61.
- Matzer, M. & Hafellner, J. 1990. Eine Revision der lichenicolen Arten der Sammelgattung *Rosellinia*. *Biblioth. Lichenol.* 37: 1-138.
- Matzer, M. & Pelzmann, B. 1991. REM-Studien an Ascosporen der lichenicolen Gattungen *Adelococcus*, *Reconditella*, *Roselliniella* und *Roselliopsis*. *Nova Hedwigia* 52: 1-9.
- Matzer, M. 1993. Beitrag zur Kenntnis der Ascomycetengattungen *Globosphaeria*, *Roselliopsis* und *Synaptospora*. *Cryptogamie, Mycol.* 14: 11-19.
- May, P.F. 1997. *Ophioparma lapponica* - a misunderstood species. *Harvard Papers in Botany* 2:213-228.
- Mayrhofer, H. & Leuckert, C. 1985. Beiträge zur Chemie der Flechtengattung *Rinodina* (Ach.) Gray III. *Herzogia* 7: 117-129.
- Mayrhofer, H. & Moberg, R. 2002a. *Amandinea*. In: Ahti et al. (eds), *Nordic Lichen Flora* 2: 7-9.
- Mayrhofer, H. & Moberg, R. 2002b. *Phaeorrhiza*. In: Ahti et al. (eds), *Nordic Lichen Flora* 2: 31-33.
- Mayrhofer, H. & Moberg, R. 2002c. *Rinodina*. In: Ahti et al. (eds), *Nordic Lichen Flora* 2: 41-69, 72-73.
- Mayrhofer, H. & Poelt, J. 1978. *Phaeorrhiza*, eine neue Gattung der Physciaceae. *Nova Hedwigia* 30: 781-798.
- Mayrhofer, H. & Poelt, J. 1979. Die saxicolen Arten der Flechtengattung *Rinodina* in Europa. *Biblioth. Lichenol.* 12: 1-186.
- Mayrhofer, H. & Poelt, J. 1985. Die Flechtengattung *Microglaena* sensu Zahlbruckner in Europa. *Herzogia* 7: 13-79.
- Mayrhofer, H. & Sheard, J.W. 2002. *Amandinea cacuminum*: a new combination (Physciaceae). *Mycotaxon* 82: 437-441.
- Mayrhofer, H. & Sheard, J.W. 2007. *Rinodina archaea* (Physciaceae, lichenized Ascomycetes) and related species. *Biblioth. Lichenol.* 96: 229-246.
- Mayrhofer, H. 1987a. Ergänzende Studien zur Taxonomie der Gattung *Protothelenella*. *Herzogia* 7: 313-342.
- Mayrhofer, H. 1987b. Monographie der Flechtengattung *Thelenella*. *Biblioth. Lichenol.* 26: 1-106.
- Mayrhofer, M. 1987c. Studien über die saxicolen Arten der Flechtengattung *Lecania* in Europa I. *Halecania* gen. nov. *Herzogia* 7: 381-406.
- Mayrhofer, M. 1988. Studien über die saxicolen Arten der Flechtengattung *Lecania* in Europa. II. *Lecania* s. str. *Biblioth. Lichenol.* 28: 1-133.
- McCarthy, P.M. 1988. New and interesting species of *Verrucaria* 1. *Lichenologist* 20: 1-10.
- McCarthy, P.M. 1993. Saxicolous species of *Porina* Müll. Arg. (*Trichotheliaceae*) in the Southern Hemisphere. *Biblioth. Lichenol.* 52: 1-134.
- McCune, B., Tønsberg & Ahti, T. 2007. *Hypogymnia incurvoides* new to Scandinavia and the Appalachian Mountains. *Graphis Scripta* 19: 10-12.
- McCune, B. et al. 2018. Biodiversity and ecology of lichens of Katmai and Lake Clark National Parks and Preserves, Alaska. *Mycosphere* 9: 859-930.

- McMullen, R.T. 2017. *Chaenothecopsis marcineae* new to Europe from Lapland, Finland. *Graphis Scripta* 29: 6-7.
- Mebus, F. 2006. SLF vårexkursion Gotland 13-14 maj 2006. *Lavbulletinen* 2006(2): 44-51.
- Meyer, S.L.F. 1985. The new lichen genus *Imshaugia* (Ascomycotina, Parmeliaceae). *Mycologia* 77: 336-338.
- Meyer, B. 2002. Die Flechtengattung *Clauzadea*. *Sendtnera* 8: 85-154.
- Middelborg, J. & Mattsson, J. 1987. Crustaceous lichen species of the Caliciales in Norway. *Sommerfeltia* 5: 1-71.
- Migula, W. 1929. Kryptogamen-Flora von Deutschland, Deutsch-Österreich und der Schweiz. Flechten. 4(1) 1-527.
- Millanes, A.M., Westberg, M., Wedin, M. & Diederich, P. 2012. *Tremella diploschistina* (Tremellales, Basidiomycota, Fungi), a new lichenicolous species growing on *Diploschistes*. *Lichenologist* 44: 321-332.
- Millanes, A.M., Diederich, P., Westberg, M., Knutsson, T. & Wedin, M. 2014. *Tremella rhizocarpicola* sp. nov. and other interesting lichenicolous Tremellales and Filobasidiales in the Nordic countries. *MycoKeys* 08: 31-41.
- Millanes, A.M., Diederich, P., Westberg, M., Pippola, E. & Wedin, M. 2015. *Tremella cetrariellae* (Tremellales, Basidiomycota, Fungi), a new lichenicolous fungus on *Cetrariella delisei*. *Lichenologist* 47: 359-368.
- Millanes, A.M., Diederich, P., Westberg, M. & Wedin, M. 2016. Three new species in the *Biatoropsis usnearum* complex. *Herzogia* 29: 337-354.
- Millanes, A.M., Diederich, P., Westberg, M. & Wedin, M. 2021. *Crittendenia* gen. nov., a new lichenicolous lineage in the *Agaricostilbomycetes* (Pucciniomycotina), and a review of the biology, phylogeny and classification of lichenicolous *Heterobasidiomycetes*. *Lichenologist* 53: 103-116.
- Moberg, R. & Carlin, G. 1996. The genus *Placopsis* (Trapeliaceae) in Norden. *Symb. Bot. Upsal.* 31(3): 319-325.
- Moberg, R. & Thell, A. 2011a. *Arctoparmelia*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 19-21, 139.
- Moberg, R. & Thell, A. 2011b. *Evernia*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 49-51, 139.
- Moberg, R. & Thell, A. 2011c. *Imshaugia*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 64-65.
- Moberg, R. & Thell, A. 2011d. *Letharia*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 65-66.
- Moberg, R. & Thor, G. 1993. Additions to the lichen flora of Ångermanland, central Sweden. *Graphis Scripta* 5: 39-44.
- Moberg, R. 1969. *Physcia kairamoi* in Scandinavia. *Svensk Bot. Tidskr.* 63: 341-344.
- Moberg, R. 1971. *Physcia dimidiata* new to Scandinavia. *Svensk Bot. Tidskr.* 65: 133-137.
- Moberg, R. 1974. Studies on *Physcia*. I. *Svensk Bot. Tidskr.* 68: 285-288.
- Moberg, R. 1977. The lichen genus *Physcia* and allied genera in Fennoscandia. *Symb. Bot. Upsal.* 22 (1): 1-108.
- Moberg, R. 1986. *Lichenes selecti exsiccati upsalienses*. Fasc. 1. *Thunbergia* 2: 1-10.
- Moberg, R. 1987. *Lichenes selecti exsiccati upsalienses*. Fasc. 2. *Thunbergia* 5: 1-9.
- Moberg, R. 1989. *Lichenes selecti exsiccati upsalienses*. Fasc. 3 (n. 51-76). *Thunbergia* 7: 1-9.
- Moberg, R. 1991. *Lichenes selecti exsiccati upsalienses*, Fasc. 4 (Nos 76-100). *Thunbergia* 14: 1-12.
- Moberg, R. 1994. *Lichenes selecti exsiccati upsalienses*, Fasc. 5 & 6. *Thunbergia* 20: 1-17.

- Moberg, R. 1996. Lichenes selecti exsiccati upsalienses, fasc 7 & 8. *Thunbergia* 24: 1-17.
- Moberg, R. 1997. Lichenes selecti exsiccati upsalienses. *Thunbergia* 27: 1-21.
- Moberg, R. 2002a. Anaptychia. In: Ahti et al. (eds), *Nordic Lichen Flora* 2: 9-10, 70.
- Moberg, R. 2002b. Dimelaena. In: Ahti et al. (eds), *Nordic Lichen Flora* 2: 25.
- Moberg, R. 2002c. Diploicia. In: Ahti et al. (eds), *Nordic Lichen Flora* 2: 25-26, 71.
- Moberg, R. 2002d. Heterodermia. In: Ahti et al. (eds), *Nordic Lichen Flora* 2: 26.
- Moberg, R. 2002e. Hyperphyscia. In: Ahti et al. (eds), *Nordic Lichen Flora* 2: 27.
- Moberg, R. 2002f. Phaeophyscia. In: Ahti et al. (eds), *Nordic Lichen Flora* 2: 27-31, 71.
- Moberg, R. 2002g. Physcia. In: Ahti et al. (eds), *Nordic Lichen Flora* 2: 33-38.
- Moberg, R. 2002h. Physconia. In: Ahti et al. (eds), *Nordic Lichen Flora* 2: 38-41, 71.
- Moberg, R. 2004. The lichen genus *Heterodermia* in Europe in Europe and the Macaronesian Islands. *Biblioth. Lichenol.* 88: 453-463.
- Moberg, R. 2005. Lichenes selecti exsiccati upsalienses. Fasc. 15-16 (351-400). *Thunbergia* 35: 1-26.
- Moberg, R., Thell, A. & Frödén, P. 2011. *Flavoparmelia*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 53-55.
- Moberg, R., Tibell, S. & Tibell, L. (eds) 2017. *Nordic lichen flora* vol. 6. *Verrucariaceae* 1. Mölndal, 85 pp.
- Mohr, F. 2001. Evolution and taxonomy of the marine *Pyrenocollema* in North-Western Europe. *Cand. Scient. Thesis, Botanical Institute, University of Bergen*, 94 pp.
- Mohr, F., Ekman, S. & Heegaard, E. 2004. Evolution and taxonomy of the marine *Collembosporium* species in north-west Europe. *Mycol. Res.* 108: 515-532.
- Molina, M.C., Crespo, A., Blanco, O., Hladun, N. & Hawksworth, D.L. 2002. Molecular phylogeny and status of *Diploicia* and *Diplolechia*, with observations on *Diplolechia subcanescens* and *Diplolechia rivas-martinezii*. *Lichenologist* 34: 509-519.
- Molina, M.C., Crespo, A., Blanco, O., Lumbsch, H. T. & Hawksworth, D.L. 2004. Phylogenetic relationships and species concepts in *Parmelia* s. str. (*Parmeliaceae*) inferred from nuclear ITS rDNA and b-tubulin sequences. *Lichenologist* 36: 37-54.
- Moreno, P.P. & Egea, J.M. 1992a. El genero *Lichinella* en el sureste de Espana y Norte de Africa. *Cryptogamie, Bryol. Lichénol.* 13: 237-259.
- Moreno, P.P. & Egea, J.M. 1992b. Estudios sobre el complejo *Anema*, *Thyrea*, *Peccania* en el sureste de la Peninsula Iberica y Norte de Africa. *Acta Bot. Barcelona* 41: 1-66.
- Morgan-Jones, G. & Swinscow, T.D.V. 1965. On the genus *Microglaena*. *Lichenologist* 3: 42-54.
- Motiejūnaitė, J., Zhurbenko, M.P., Suija, A. & Kantvilas, G. 2019. Lichenicolous ascomycetes on *Siphula*-like lichens, with a key to the species. *Lichenologist* 51: 45-73.
- Muhr, L.-E. & Tønsberg, T. 1989. *Rimularia fuscosora*, a new corticolous sorediate lichen from north western Europe. *Nord. J. Bot.* 8: 649-652.
- Muhr, L.-E. 1987a. Lavfloran i Gravbäcksravinen i Värmland. *Svensk Bot. Tidskr.* 81: 17-36.
- Muhr, L.-E. 1987b. Floristic notes from Sweden and Finland. *Graphis Scripta* 1: 64-65.
- Muhr, L.-E. 1989. *Scoliosporum sarothamni* ny för Sverige. *Graphis Scripta* 2: 162-163.
- Muhr, L.-E. 1991a. *Lecidea roseotincta* och *Psilolechia clavulifera* nya för Sverige. *Graphis Scripta* 3: 52-53.

- Muhr, L.-E. 1991b. *Porpidia soledizodes* new to Sweden. *Graphis Scripta* 3: 104-105.
- Muhr, L.-E. 1993. Floristic notes on some Swedish *Lepraria* and *Leproloma* species. *Graphis Scripta* 5: 51-52.
- Myllys, L. & Launis, A. 2018. Additions to the diversity of lichens and lichenicolous fungi on decaying wood in Finland. *Graphis Scripta* 30: 78-87.
- Myllys, L. 1994. *Usnea glabrata* in Eastern Fennoscandia. *Acta Bot. Fenn.* 150: 125-130.
- Myllys, L., Halonen, P. & Velmala, S. 2006. Notes on some rare species of *Bryoria* from Finland. *Graphis Scripta* 18: 23-26.
- Myllys, L., Velmala, S. & Ahti, T. 2011a. *Pseudophebe*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 99-101, 140.
- Myllys, L., Velmala, S. & Holien, H. 2011b. *Bryoria*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 26-37.
- Nannfeldt, J.A. & Du Rietz, G.E. 1945. *Vilda växter i Norden. Mossor Lavar Svampar Alger*. Stockholm, 443 pp., 212 pl.
- Nash, T.H., Ryan, B.D., Diederich, P., Gries, C. & Bungartz, F. (eds) 2004. *Lichen flora of the Greater Sonoran Desert Region*, vol. 2: 1-742. Tempe.
- Navarro-Rosinés, P. & Hafellner, J. 1996. *Lichenostigma elongata* spec. nov. (Dothidiales), a lichenicolous ascomycete on *Lobothallia* and *Aspicilia* species. *Mycotaxon* 57: 211-225.
- Navarro-Rosinés, P. & Hladun, N.L. 1990. El género *Sarcopyrenia* Nyl. en Europa y norte de Africa. *Castanea* 45: 469-489.
- Navarro-Rosinés, P. & Hladun, N.L. 1992. *Henrica ramulosa* (Verrucariaceae) en los pirineos del Valle de Aran. *Cryptogamie, Bryol. Lichénol.* 13: 125-131.
- Navarro-Rosinés, P. & Hladun, N.L. 1994. Datos sobre el género *Rhagadostoma* (Sordariales). *Bull. Soc. Linn. Provence* 45: 431-442.
- Navarro-Rosinés, P. & Hladun, N.L. 1996. Las especies saxicolo-calcícolas del grupo de *Caloplaca lactea* (Teloschistaceae), en las regiones mediterránea y medioeuropea. *Bull. Soc. Linn. Provence* 47: 139-166.
- Navarro-Rosinés, P. & Roux, C. 1990. *Polycoccum opulentum* nelikeniginta fungo likenloga ofta sed pretervidita. *Bull. Soc. Linn. Provence* 41: 143-150.
- Navarro-Rosinés, P. & Roux, C. 1994. *Caloplaca cirrochroa* specio ofta sed nur supraje konata. *Bull. Soc. Linn. Provence* 45: 327-341.
- Navarro-Rosinés, P. & Roux, C. 1996. *Le Clauzadella gordensis* gen. et sp. nov., ascomycete lichénicole non lichénise (Verrucariaceae). *Canad. J. Bot.* 74: 1533-1538.
- Navarro-Rosinés, P. & Roux, C. 1998. *Polycoccum clauzadei* sp. nov. (Dothideales), champignon lichénicole non lichénisé sur *Xanthoria elegans*. *Mycotaxon* 69: 327-337.
- Navarro-Rosinés, P., Roux, C. & Llimona, X. 1994. *Nelikenigintaj fungoj* ce Squamarina: *Clypeococcum epicrassum* comb. nov. kaj *Lichenochora clauzadei* sp. nov. *Bull. Soc. Linn. Provence* 45: 421-429.
- Navarro-Rosinés, P., Roux, C. & Casares, M. 1995. Hongos liquenícolas de Squamarina II: sobre la identidad de *Didymella crozansiana*. *Cryptogamie, Bryol. Lichénol.* 16: 99-103.
- Navarro-Rosinés, P., Etayo, J. & Calatayud, V. 1999. *Rhagadostoma collematum* sp. nov. y nuevos datos para otras especies del género. *Bull. Soc. Linn. Provence* 50: 233-241.
- Navarro-Rosinés, P., Roux, C. & Gueidan, C. 2007. La genro *Verrucula* kaj *Verruculopsis* (Verrucariaceae). *Bull. Soc. Linn. Provence* 58: 133-180.
- Navrotskaya, I.L., Kondratyuk, S.Y., Wasser, S.P., Nevo, E. & Zelenko, S.D. 1996. Lichens and lichenicolous fungi new for Israel and other countries. *Israel J. Plant Sciences* 44: 181-193.
- Neuwirth, G. & Aptroot, A. 2011. Recognition of four morphologically distinct species in the *Graphis scripta* complex in Europe. *Herzogia* 24: 207-230.

- Nilsson, S.G., Aronsson, G. & Hultengren, S. 2003. Biologisk mångfald i Linnés hembygd i Småland. 2. Rödlistade växter och svampar i Stenbrohults socken. Svensk Bot. Tidskr. 97: 74-93.
- Nimis, P.L. & Poelt, J. 1987. The lichens and lichenicolous fungi of Sardinia. *Studia Geobot.* 7, Suppl. 1: 1-269.
- Nimis, P.L. 1993. The lichens of Italy. Museo Regionale di Scienze Naturali Torino, Monografia XII. 1-897.
- Nordén, B. & Aptroot, A. 2018. *Anisomeridium viridescens* and *Arthopyrenia callunae*, two pyrenolichens new to Fennoscandia. *Graphis Scripta* 30: 166-169.
- Nordén, B. & Jordal, J.B. 2016. Some interesting lichenized fungi from old *Fraxinus excelsior* and *Ulmus glabra* in Norway, including four new country records. *Graphis Scripta* 28: 17-21.
- Nordén, B. 2005. Tillägg om sköldlavar. Svensk Bot. Tidskr. 97: 205.
- Nordén, B. 2006. Atlantisk håll-lav – ryktet om dess död överdrivet. Svensk Bot. Tidskr. 100: 302.
- Nordén, B. 2016. A corticolous *Verrucaria* species new to Norway. *Graphis Scripta* 28: 14-16.
- Nordén, B., Jordal, J.B. & Bratli, H. 2013. *Bacidia incompta*, *Pyrenula nitidella* and *Schismatomma decolorans*, three lichen species on old deciduous trees new to Norway. *Graphis Scripta* 25: 44-47.
- Nordén, B., Jäntti, M. & Jordal, J.B. 2017a. Three species of *Sordariomycetes* (ascomycota: Pezizomycotina) new to Norway. *Agarica* 38: 57-60.
- Nordén, B., Jäntti, M., Jordal, J.B., Laessoe, T., Voglmayr, H. & Jaklitsch, W. 2017b. Twenty species of bitunicate ascomycetes new to Norway. *Agarica* 38: 47-56.
- Nordén, B., Andersson, R., Andreasen, M., Aptroot, A., Chomnunti, P., Friebe, G., Jaklitsch, W., Johannesen, E., Jordal, J.B. & Voglmayr, H. 2019. Ascomycetes new to Norway found at workshop in Hordaland, 13-16 May 2019. *Agarica* 39: 53-59.
- Nordin, A. & Hermansson, J. 1999. Floristic news from Sweden, Norway and Finland. *Graphis Scripta* 10: 13-20.
- Nordin, A. & Tibell, L. 2005. Additional species in *Tetramelas*. *Lichenologist* 37: 491-498.
- Nordin, I. 1964. *Abrothallus suecicus*, a common lichenicolous fungus. Svensk Bot. Tidskr. 58: 225-232.
- Nordin, I. 1972. *Caloplaca* sect. *Gasparrinia* i Nordeuropa. Uppsala, 184 pp.
- Nordin, A. 1987. De oceaniska lavarna *Lobaria amplissima* och *Pannaria conoplea* i Gästrikland. Svensk Bot. Tidskr. 81: 154-156.
- Nordin, A. 1990a. Lavar vid Sävasjön 2. Växter i Hälsingland och Gästrikland 8(2): 37-40.
- Nordin, I. 1990b. Kring gotländska popplar. *Rindi* 1990(1): 35-36.
- Nordin, A. 1991. *Fellhanera myrtillicola* new to Sweden. *Graphis Scripta* 3: 49.
- Nordin, A. 1992. *Umbilicaria arctica* at the Gulf of Botnia. *Graphis Scripta* 3: 126.
- Nordin, A. 1995. Återinventering av lavfloran i Ombergs skyddsområde. Svensk Bot. Tidskr. 89: 175-192.
- Nordin, A. 1996a. *Buellia* species (*Physciaceae*) with pluriseptate spores in Norden. *Symb. Bot. Upsal.* 31 (3): 327-354.
- Nordin, A. 1996b. *Bactrospora brodoi* in Sweden and Finland. *Lichenologist* 28: 287-290.
- Nordin, A. 1996c. Lavar på Linköpings domkyrka. Svensk Bot. Tidskr. 90: 149-157.
- Nordin, A. 2000a. *Buellia chloroleuca* in the Nordic countries. *Graphis Scripta* 11: 35-39.
- Nordin, A. 2000b. Taxonomy and phylogeny of *Buellia* species with pluriseptate spores. *Symb. Bot. Upsal.* 33(1): 1-117.

- Nordin, U. 2001. *Biatora aegrefaciens* - återfunnen efter 119 år. *Graphis Scripta* 12: 63-64.
- Nordin, A. 2002a. *Collemopsidium angermannicum*, a widespread but rarely collected aquatic lichen. *Graphis Scripta* 13: 39-41.
- Nordin, A. 2002b. Du Rietz's lichen collections 1956-1965 from riverbanks and shores of lakes in connection with planned water regulations. *Thunbergia* 32: 1-26.
- Nordin, A. 2004a. Three species new to Sweden in material collected by Du Rietz. *Graphis Scripta* 16: 20-22.
- Nordin, A. 2004b. New species in *Tetramelas*. *Lichenologist* 36: 355-359.
- Nordin, A. 2004c. Lavar vid Öjeforsen. Växter i Hälsingland och Gästrikland 3: 12-15.
- Nordin, A. 2005. *Rhizocarpon umense*, a distinct but originally misplaced species. *Graphis Scripta* 17: 37-38.
- Nordin, A. 2008. Bör lerskinlav rödlistas? *Lavbulletinen* 2008(2): 63.
- Nordin, A. 2012. Lichens new to Svalbard and Norway. *Graphis Scripta* 24: 28-31.
- Nordin, A. 2013. On *Aspicilia serpentinicola* and some other *Aspicilia*. *Graphis Scripta* 25: 18-20.
- Nordin, A. 2016. *Lecanora vicaria* - en bortglömd art. *Lavbulletinen* 2015(2): 62-63.
- Nordin, A., Sundin, R. & Thor, G. 1991. *Lecanora strobilina* and *Polyblastia allobata* new to Sweden. *Graphis Scripta* 3: 50-51.
- Nordin, A., Sundin, R. & Thor, G. 1992. *Bacidia caligans* and *Bacidina chlorotricula* new to Sweden. *Graphis Scripta* 3: 134-137.
- Nordin, A., Sundin, R. & Thor, G. 1995. Two sorediate crustose lichens assigned to *Lecanora*. *Nord. J. Bot.* 15: 553-556.
- Nordin, A., Tibell, L. & Owe-Larsson, B. 2007a. A preliminary phylogeny of *Aspicilia* in relation to morphological and secondary product variation. *Biblioth. Lichenol.* 96: 247-266.
- Nordin, A., Botnen, A. & Santesson, R. 2007b. *Gyalidea polyspora* formally described from Norway and Sweden. *Graphis Scripta* 19: 37-39.
- Nordin, A., Tibell, L. & Owe-Larsson, B. 2008. *Aspicilia berntii*, a new name for a poorly known species. *Lichenologist* 40: 127-133.
- Nordin, A., Tibell, L. & Owe-Larsson, B. 2009. *Endocarpon moenium* belongs in *Acarosporaceae*. *Graphis Scripta* 21: 21-22.
- Nordin, A., Savić, S. & Tibell, L. 2010. Phylogeny and taxonomy of *Aspicilia* and *Megasporaceae*. *Mycologia* 102: 1339-1349.
- Nordin, A., Owe-Larsson, B. & Tibell, L. 2011. Two new *Aspicilia* species from Fennoscandia and Russia. *Lichenologist* 43: 27-37.
- Nordnes, J. 1982a. *Parmeliopsis esorediata*, South Norway, n. c. *Nord. J. Bot.* 2: 381-382.
- Nordnes, J. 1982b. *Cladonia polycarpoides* ny for Norge. *Blyttia* 40: 187-189.
- Norell, B. 2010a. *Blylavsknagg Toninia plumbina* - en doldis på blylav i sumplövskog. *Lavbulletinen* 2010(3): 155-156.
- Norell, B. 2010b. *Elfenbenslaven* funnen på ask i ett kvillområde i Gästrikland. *Lavbulletinen* 2010(2): 127-128.
- Norman, J.M. 1868. *Specialia loca natalia plantarum nonullarum vascularium & characearum & lichenum in agro arctico Norvegiae confiniisque sponte nascentium*. *Script. Soc. Reg. Sci. Norvegiae* 5: 243-378.
- Norman, J.M. 1869. *Lichenes Finmarkici novi*. *Bot. Notiser* 1868: 191-193.
- Norman, J.M. 1870. *Novitiæ Lichenææ arcticæ*. *Öfvers. K. Vetensk.-Akad. Förhandl.* 27: 803-806.

- Norman, J.M. 1884. Nova genera et species lichenum flora norvegiae. Öfvers. K. Vetensk.-Akad. Förhandl. 8: 31-42.
- Nourish, R. & Oliver, R.W.A. 1976. Chemotaxonomic studies on the *Cladonia chlorophaea*-*pyxidata* complex and some allied species in Britain. In Brown, D.H., Hawksworth, D. L. & Bailey, R.H., *Lichenology: Progress and Problems*: 185-214.
- Nygaard, E. & Tønsberg, T. 2015. Liten eikelav *Flavoparmelia soledians* funnet ny for Norge i Stavanger. *Blyttia* 73: 161-166.
- Nygren, C. 2002. Ekologi och status för den rödlistade skorpsskinnlaven *Leptogium diffractum*. Examensarbete naturvårdsbiologi, SLU. Nr 82: 1-30.
- Nylander, W. 1853a. *Collectanea lichenologica in Gallia meridionali et Pyrenaeis*. Bot. Notiser 1853: 151-165.
- Nylander, W. 1853b. *Animadversiones circa lichenes quosdam Scandinavicos*. Bot. Notiser 1853: 179-184.
- Nylander, W. 1861. *Lichenes scandinavicae sive Prodromus lichenographiae Scandinaviae*. Not. Sällsk. Fauna Fl. Fenn. Förhandl. 5: 1-312.
- Nylander, W. 1863. *Synopsis methodica lichenum vol. II*. Paris. 1-64, pl. IX.
- Nylander, W. 1865. *Lecideae adhuc europaeae novae*. *Flora* 48: 145-148.
- Nylander, W. 1872. *Animadversiones quaedam circa F. Arnold Lich. Fragm. XIV*. *Flora* 55: 247-252.
- Nylander, W. 1873a. *Addenda nova ad lichenographiam europaeam*. *Continuatio* 15. *Flora* 56: 17-23.
- Nylander, W. 1873b. *Addenda nova ad lichenographiam europaeam*. *Continuatio* 16. *Flora* 56: 289-300.
- Nylander, W. 1873c. *Observata lichenologica in Pyrenaeis orientalibus*. *Flora* 56: 193-207.
- Nylander, W. 1874a. *Addenda nova ad lichenographiam europaeam*. *Continuatio* 18. *Flora* 57: 305-318.
- Nylander, W. 1874b. *Addenda nova ad lichenographiam europaeam*. *Continuatio* 17. *Flora* 57: 6-16.
- Nylander, W. 1875a. *Addenda nova ad lichenographiam europaeam*. *Continuatio* 23. *Flora* 58: 440-448.
- Nylander, W. 1875b. *Addenda nova ad lichenographiam europaeam*. *Continuatio* 21. *Flora* 58: 297-303.
- Nylander, W. 1879. *Addenda nova ad lichenographiam europaeam*. *Continuatio* 32. *Flora* 62: 353-362.
- Nylander, W. 1881a. *Addenda nova ad lichenographiam europaeam*. *Continuatio* 36. *Flora* 64: 177-189.
- Nylander, W. 1881b. *Addenda nova ad lichenographiam europaeam*. *Continuatio* 38. *Flora* 64: 529-541.
- Nylander, W. 1883. *Addenda nova ad lichenographiam europaeam*. *Continuatio* 40. *Flora* 66: 97-109.
- Oberhollenzer, H. & Wirth, V. 1984. *Beiträge zur Revision der Flechtengattung Fuscidea*. *Beih. Nova Hedwigia* 79: 537-595.
- Oberhollenzer, H. & Wirth, V. 1990. *Contribution to a revision of the lichen genus Fuscidea III. Fuscidea recensa*. *Biblioth. Lichenol.* 38: 367-375.
- Obermayer, W. & Poelt, J. 1994. *Lecanora leptacinella, Lecideia polytrichina und Lecideia polytrichinella spec. nova, drei an acidophile Moose gebundene Flechten von arktisch(-alpin)er Verbreitung*. *Acta Bot. Fenn.* 150: 131-142.
- Obermayer, W. 1991. *Mikrokristallisation*. In: Hafellner, G. *Botanikertreffen, Kurtzf. Beitr.:* 61.

- Obermayer, W. 1994. Die Flechtengattung *Arthrorhaphis* (Arthrorhaphidaceae) in Europa un Grönland. *Nova Hedwigia* 58: 275-333.
- Odelvik, G. & Westberg, M. 2015. *Rosetteppia* återfunnen i Sverige. *Lavbulletinen* 2015(1): 20-23.
- Oksanen, J. 1987. Ecology of the taxa of *Cladonia chlorophaea* aggr. on the south coast of Finland. *Biblioth. Lichenol.* 25: 429-432.
- Oldhammer, B. & Turander, P. 2004. *Långskägg* - naturskogens flaggskepp. *Svensk Bot. Tidskr.* 98: 242-246.
- Oldhammer, B. 1991. *Violettgrå tagellav*, *Bryoria nadvornikiana*, i Mora kommun. *Svensk Bot. Tidskr.* 85: 33-38.
- Oldhammer, B. 1994. *Grenlav*, *Evernia mesomorpha*, i Dalarna. *Svensk Bot. Tidskr.* 88: 43-47.
- Oldhammer, B. 2002. Sveriges rikaste kända lokal för varglav ligger i Dalarnas fjällskog. *Svensk Bot. Tidskr.* 96: 3-7.
- Olsen, S.R. & Gauslaa, Y. 1991. *Långskägg*, *Usnea longissima*, hotad även i Södra Norge. *Svensk Bot. Tidskr.* 85: 342-346.
- Olsen, O. & Tønsberg, T. 2016. *Thelocarpon superellum* ny for Norge. *Blyttia* 74: 172-174.
- Onut-Brännström, I., Johannesson, H. & Tibell, L. 2018. *Thamnomlia tundrae* sp. nov., a cryptic species and putative glacial relict. *Lichenologist* 50: 57-75.
- Orange, A. 1989. *Macentina stigonemoides* (Verrucariaceae), a new lichenized species from Great Britain and Ireland. *Lichenologist* 21: 229-236.
- Orange, A. 1991a. Notes on some terricolous species of *Verrucaria*. *Lichenologist* 23: 3-10.
- Orange, A. 1991b. *Macentina dictyospora*, a new lichenized species from Sweden. *Lichenologist* 23: 15-20.
- Orange, A. 1991c. *Thelidium pluvium*, a new lichenized species from North-west Europe. *Lichenologist* 23: 99-106.
- Orange, A. 1992. A key to the *Cladonia chlorophaea* group in Europe, using microcrystal tests. *British Lichen Soc. Bull.* 70: 36-42.
- Orange, A. 1993. *Thelidium austroatlanticum*, a new species from the South Orkney Islands. *Lichenologist* 25: 271-277.
- Orange, A. 1997. Chemical variation in *Lepraria eburnea*. *Lichenologist* 29: 9-13.
- Orange, A. 1998. *Dermatocarpon leptophyllodes* and related species in the British Isles. *Lichenologist* 30: 1-20.
- Orange, A. 2000. *Verrucaria elacina*, a misunderstood European lichen. *Lichenologist* 32: 411-422.
- Orange, A. 2002a. *Lepraria atlantica*, a new species from the British Isles. *Lichenologist* 33: 461-465.
- Orange, A. 2002b. Lichenicolous fungi on *Ionaspis lacustris*. *Mycotaxon* 81: 265-279.
- Orange, A. 2004a. The *Verrucaria fuscella* group in Great Britain and Ireland. *Lichenologist* 36: 173-182.
- Orange, A. 2004b. A remarkable new freshwater *Verrucaria* from Europe. *Lichenologist* 36: 349-354.
- Orange, A. 2008. British pyrenocarpous lichens. Cardiff (unpag.).
- Orange, A. 2009. Two parasitic species of *Placopyrenium* (Verrucariaceae) from freshwater habitats in north-west Europe. *Lichenologist* 41: 131-139.
- Orange, A. 2012. Semi-cryptic marine species of *Hydropunctaria* (Verrucariaceae, lichenized Ascomycota) from north-west Europe. *Lichenologist* 44: 299-320.
- Orange, A. 2013. Four new species of *Verrucaria* (Verrucariaceae, lichenized Ascomycota) from freshwater habitats in Europe. *Lichenologist* 45: 305-322.

- Orange, A. 2014. *Porpidia irrigua*, a new species related to *P. contraponenda*. *Lichenologist* 46: 269-284.
- Orange, A. 2018. A new species-level taxonomy for *Trapelia* (Trapeliaceae, Ostropomycetidae) with special reference to Great Britain and the Falkland Islands. *Lichenologist* 50: 3-42.
- Orange, A., Watson, M.F., James, P.W. & Moore, D. M. 2009. *Thelocarpon*. In: *The Lichens of Great Britain and Ireland* (Smith, C.W., Aptroot, A., Coppins, B.J., Fletcher, A., Gilbert, O.L., James, P. W. & Wolseley, P.A. eds.). 884-888.
- Orange, A., Palice, Z. & Klepsland, J. 2020. A new isidiate saxicolous species of *Porina* (Ascomycota, Ostropales, Porinaceae). *Lichenologist* 52: 267-277.
- Otalora, M.A.G. & Wedin, M. 2013. *Collema fasciculare* belongs in Arctomiaceae. *Lichenologist* 45: 295-304.
- Otalora, M.A.G. & Wedin, M. 2014. *Scytinium pulvinatum* comb. nov. *Mycosphere* 5: 502-503.
- Otalora, M.A.G., Martinez, I., Molina, M.C., Aragon, G. & Lutzoni, F. 2008. Phylogenetic relationships and taxonomy of the *Leptogium lichenoides* group (Collemataceae) in Europe. *Taxon* 57: 907-921.
- Otalora, M.A.G., Jørgensen, P.M. & Wedin, M. 2014. A revised generic classification of the jelly lichens, Collemataceae. *Fungal Diversity* 64: 275-293.
- Otte, V., Yakovchenko, L., Clerc, P. & Westberg, M. 2013. *Candelariella commutata* sp. nov. for *C. unilocularis* auct. medioeur. – an arctic-alpine lichen on calcareous substrata from the Caucasus and Europe. *Herzogia* 26: 217-222.
- Otto, G.F. 1983. *Tholurna dissimilis* well established in Western North America. *Bryologist* 86: 263-265.
- Owe-Larsson, B. & Rambold, G. 2001. The sorediate species of the lichen genus *Miriquidica* (Lecanoraceae). *Biblioth. Lichenol.* 78: 335-364.
- Owe-Larsson, B. 1994. *Mörkhövdad spiklav*, *Calicium adequatum*, påträffad i Värmland. *Erioderma* 2: 14-15.
- Oxner, A.M. 1937. *Lichens of Ukraine*. Kiev, 342 pp.
- Palice, Z. & Tønsberg, T. 2016. *Porpidia nadvornikiana* new to Norway. *Graphis Scripta* 28: 36-39.
- Palice, Z. 1999. New and noteworthy records of lichens in the Czech Republic. *Preslia* 71: 289-336.
- Palice, Z., Printzen, C., Spribille, T. & Elix, J.A. 2011. Notes on the synonymy for *Lecanora filamentosa*. *Graphis Scripta* 23: 1-7.
- Palice, Z., Printzen, C., Spribille, T., Svensson, M., Tønsberg, T., Urbanavichene, I., Yakovchenko, L.S. & Ekman, S. 2013. Taxonomy of the genus *Myrionora*, with a second species from South America. *Lichenologist* 45: 159-167.
- Palice, Z., Malicek, J., Peksa, O. & Vondrak, J. 2018. New remarkable records and range extensions in the central European lichen biota. *Herzogia* 31: 518-534.
- Parmen, S., Lücking, R. & Lumbsch, H.T. 2012. Phylogenetic classification at generic level in the absence of distinct phylogenetic patterns of phenotypical variation: a case study in Graphidaceae (Ascomycota). *PLoS ONE* 7(12): 1-10.
- Persoh, D. & Rambold, G. 2002. *Phacopsis* – a lichenicolous genus of the family Parmeliaceae. *Mycol. Progress* 1: 43-55.
- Peterson, R.H. 1967. Notes on clavarioid fungi. VII. Redefinition of the *Clavaria vernalis* - *C. mucida* complex. *Am. Midl. Naturalist* 77: 205-221.
- Pettersson, B. 1946. *Heppia lutos* (Ach. Nyl. i Sverige. *Bot. Notiser* 1946: 94-102.
- Pettersson, B. 1958. Dynamik och konstans i Gotlands flora och vegetation. *Acta Phytogeogr. Suecica* 40: 1-288.

- Pettersson, L.-Å. 2006. Öländsk tegellav *Psora valesiaca* funnen på Gotland. *Lavbulletinen* 2006(2): 52-53.
- Piercey-Normore, M.D., Ahti, T. & Goward, T. 2010. Phylogenetic and haplotype analyses of four segregates within *Cladonia arbuscula* s. l. *Botany* 88: 397-408.
- Piiri, T. & Lensment, L. 1998. The first record of *Ochrolechia szatalensis* in Estonia. *Folia Cryptog. Estonica* 32: 67.
- Pino-Bodas, R., Zhurbenko, M.P. & Stenroos, S. 2017. Phylogenetic placement within Lecanoromycetes of lichenicolous fungi associated with *Cladonia* and some other genera. *Persoonia* 39: 91-117.
- Pippola, E. & Kotiranta, H. 2008. The genus *Tremella* (Basidiomycota, Tremellales) in Finland. *Ann. Bot. Fennici* 45: 401-434.
- Pleijel, H., Hultengren, S. & Bohlin, A. 1998. Kulturgynnade sydliga och oceaniska växter i Halle. och Hunnebergs branter. *Svensk Bot. Tidskr.* 91: 561-572.
- Poelt, J. & Buschardt, A. 1978. Über einige bemerkenswerte Flechten aus Norwegen. *Norw. J. Bot.* 25: 123-125.
- Poelt, J. & Döbbeler, P. 1975a. *Lecidea margaritella*, eine an ein Lebermos gebundene Flechte, und ihr Vorkommen in Mitteleuropa. *Herzogia* 3: 327-334.
- Poelt, J. & Döbbeler, P. 1975b. Über moosparasitische Arten der Flechtengattungen *Micarea* und *Veizdaea*. *Bot. Jahrb. Syst.* 96: 328-352.
- Poelt, J. & Döbbeler, P. 1977. The genus *Veizdaea*: a supplement. *Lichenologist* 9: 169-170.
- Poelt, J. & Döbbeler, P. 1979. *Bryostigma leucodontis* nov. gen. & spec., eine neue Flechte mit fast unsichtbaren Fruchtkörpern. *Pl. Syst. Evol.* 131: 211-216.
- Poelt, J. & Follmann, G. 1968. *Lecanactis stenhammari* - ein mitteleuropäischer Vertreter der Roccellaceen. *Herzogia* 1: 61-65.
- Poelt, J. & Hafellner, J. 1976. Die Flechte *Neonorrhinia trypteliza* und die Familie Arthrorhaphidaceae. *Phyton* 17: 213-220.
- Poelt, J. & Hafellner, J. 1981. Bemerkenswerte Flechtenfund aus der Steiermark: 2. *Mitt. Naturwiss. Ver. Steiermark* 111: 143-150.
- Poelt, J. & Hertel, H. 1968. *Pachyascus lapponicus* nov. gen. et spec., eine bemerkenswerte Flechtengattung unklaren Anschlusses. *Ber. Deutsch. Bot. Ges.* 81: 210-216.
- Poelt, J. & Huneck, S. 1968. *Lecanora vinetorum* nova spec., ihre Vergesellschaftung, ihre Ökologie und ihre Chemie. *Österr. Bot. Z.* 115: 411-422.
- Poelt, J. & Jülich, W. 1969. *Omphalina grisella*, ein weiterer lichenisierter Blätterpilz. *Herzogia* 1: 331-336.
- Poelt, J. & Kalb, K. 1985. Die Flechte *Caloplaca congredivens* und ihre Verwandten: Taxonomie, Biologie und Verbreitung. *Flora* 176: 129-140.
- Poelt, J. & Krüger, U. 1970. Die Verbreitungsverhältnisse der Flechtengattung *Squamaria* in Europa. *Feddes Repert.* 81: 187-201.
- Poelt, J. & Leuckert, C. 1984. *Lecanora cavicola* Creveld, ihre Apothecien, ihr Chemismus und ihre systematische Stellung. *Herzogia* 6: 411-418.
- Poelt, J. & Leuckert, C. 1991. Der Formenkreis von *Protoparmelia atriseda* in Europa. *Nova Hedwigia* 52: 39-64.
- Poelt, J. & Mayrhofer, H. 1979. Studien über Ascosporen-Typen der Flechtengattung *Rinodina*. *Sydowia Beih.* 8: 312-331.
- Poelt, J. & Mayrhofer, H. 1985. Die Flechtenflora der Mödlinger Klause einst und jetzt (Niederösterreich). *Ber. Deutsch. Bot. Ges.* 98: 385-392.
- Poelt, J. & Mayrhofer, H. 1988. Über Cyanotrophie bei Flechten. *Pl. Syst. Evol.* 158: 265-281.
- Poelt, J. & Obermayer, W. 1990a. Über Thallosporen bei einigen Krustenflechten. *Herzogia* 8: 273-288.

- Poelt, J. & Obermayer, W. 1990b. Lichenisierte Bulbillen als Diasporen bei der Basidiolichene *Multiclavula vernalis* spec. coll. *Herzogia* 8: 289-294.
- Poelt, J. & Obermayer, W. 1991. Beiträge zur Kenntnis der Flechtenflora des Himalaya II. Die Gattung *Bryonora* zugleich eine Revision aller Arten. *Nova Hedwigia* 53: 1-26.
- Poelt, J. & Petutsching, W. 1992. *Xanthoria candelaria* und ähnliche Arten in Europa. *Herzogia* 9: 103-114.
- Poelt, J. & Sulzer, M. 1974. Die Erdflechte *Buellia epigaea*, eine Sammelart. *Nova Hedwigia* 25: 173-192.
- Poelt, J. & Türk, R. 1984. Die Flechten des Lungau. *Herzogia* 6: 419-469.
- Poelt, J. & Ullrich, H. 1964. Über einige kalkophiler *Lecanora*-Arten der Mitteleuropäische Flora. *Österr. Bot. Z.* 111: 257-268.
- Poelt, J. & Vězda, A. 1977. Bestimmungsschlüssel europäischer Flechten. Ergänzungsheft 1. *Biblioth. Lichenol.* 9: 1-258.
- Poelt, J. & Vězda, A. 1981. Bestimmungsschlüssel europäischer Flechten. Ergänzungsheft 2. *Biblioth. Lichenol.* 16: 1-390.
- Poelt, J. 1954. Die Gelappten Arten der Flechtengattung *Caloplaca* in Europa. *Mitt. Bot. Staatssamml. München* 11: 11-32.
- Poelt, J. 1955. Flechten der Schwarzen Wand in der Grossarl. *Verh. Zool.-Bot. Ges. Wien* 95: 107-113.
- Poelt, J. 1958a. Die lobaten Arten der Flechtengattung *Lecanora* Ach. in der Holarktis. *Mitt. Bot. Staatssamml. München* 2: 411-589.
- Poelt, J. 1958b. Über parasitische Flechten 2. *Planta* 51: 288-307.
- Poelt, J. 1959. Eine Basidiolichene in den Hochalpen. *Planta* 52: 600-605.
- Poelt, J. 1961a. Mitteleuropäische Flechten 7. *Mitt. Bot. Staatssamml. München* 4: 171-197.
- Poelt, J. 1961b. Die mitteleuropäischen Arten der *Lecidea goniophila*-Gruppe. *Ber. Bayer. Bot. Ges.* 34: 82-91.
- Poelt, J. 1962. Parasitische Flechten 3. *Österr. Bot. Z.* 109: 521-328.
- Poelt, J. 1964. Mitteleuropäische Flechten 8. *Mitt. Bot. Staatssamml. München* 5: 247-266.
- Poelt, J. 1965. Über einige Artengruppen der Flechtengattungen *Caloplaca* und *Fulgensia*. *Mitt. Bot. Staatssamml. München* 5: 571-607.
- Poelt, J. 1966. Zur Flechtenflora des Bayerisch-Böhmischen Walden. *Denkschr. Regensb. Bot. Ges.* 26: 55-96.
- Poelt, J. 1969. Bestimmungsschlüssel europäische Flechten. *Lehre.* 757 pp.
- Poelt, J. 1971. Die Flechte *Lecanora heidelbergensis* in Berlin, ihre systematische Stellung und ihre Ökologie. *Verh. Bot. Vereins Brandenburg* 108: 75-79.
- Poelt, J. 1974a. Zur Kenntnis der Flechtenfamilie *Candelariaceae*. *Phyton* 16: 189-210.
- Poelt, J. 1974b. Die parasitische Flechte *Lecidea insidiosa* und ihre Biologie. *Pl. Syst. Evol.* 123: 25-34.
- Poelt, J. 1975. Mitteleuropäische Flechten 10. *Mitt. Bot. Staatssamml. München* 12: 1-32.
- Poelt, J. 1977a. Die Flechte *Micarea hemipoliella* auf dem Schneidried *Cladium mariscus*. *Herzogia* 4: 409-413.
- Poelt, J. 1977b. Die Gattung *Umbilicaria*. *Khumbu Himal* 6(3): 397-435.
- Poelt, J. 1980. Eine diözische Flechte. *Pl. Syst. Evol.* 135: 81-87.
- Poelt, J. 1983a. Über den Formenkreis der Flechte *Lecanora contractula*. *Int. J. Mycol. Lichenol.* 1: 143-160.

- Poelt, J. 1983b. Bryonora, eine neue Gattung der Lecanoraceae. *Nova Hedwigia* 38: 73-111.
- Poelt, J. 1985. *Caloplaca epithallina*. Porträt einer parasitischen Flechte. *Bot. Jahrb. Syst.* 107: 457-468.
- Poelt, J. 1986 ("1985"). Über auf Moosen parasitierenden Flechten. *Sydowia* 38: 241-254.
- Poelt, J. 1989. Die Entstehung einer Strauchflechte aus einem Formenkreis krustiger Verwandter. *Flora* 183: 65-72.
- Poelt, J. 1990. Parasitische Arten der Flechtengattung *Rhizocarpon*: eine weitere Übersicht. *Mitt. Bot. Staatssamml. München* 29: 515-538.
- Poelt, J. 1991. Homologies and analogies in the evolution of lichens. In: Hawksworth, DL (ed.): *Frontiers in Mycology*. CAB International, Wallingford, pp. 85-97.
- Poelt, J., Leuckert, C. 1995. Die arten der *Lecanora dispersa*-Gruppe (Lichenes, Lecanoraceae) auf kalkreichen Gesteinen im Bereich der Ostalpen - Eine Vorstudie. *Biblioth. Lichenol.* 58: 289-333.
- Prieto, M. & Wedin, M. 2017. Phylogeny, taxonomy and diversification events in the Caliciaceae. *Fungal Diversity* 82: 221-238.
- Prieto, M., Martinez, I., Aragon, G., Ojalora, M.A.G. & Lutzoni, F. 2010. Phylogenetic study of *Catapyrenium* s. str. (Verrucariaceae) and related genus *Placidopsis*. *Mycologia* 102: 291-304.
- Prieto, M., Martinez, I., Aragon, G., Gueidan, C. & Lutzoni, F. 2012. Molecular phylogeny of *Heteroplacidium*, *Placidium*, and related catapyrenioid genera (Verrucariaceae, lichen-forming Ascomycota). *Am. J. Bot.* 99: 23-35.
- Prieto, M., Westberg, M. & Schultz, M. 2015. New Records of Lichinomycetes in Sweden and the Nordic Countries. *Herzogia* 28: 142-152.
- Printzen, C. & Ekman, S. 2002. Genetic variability and its geographical distribution in the widely disjunct *Cavernularia hulthenii*. *Lichenologist* 34: 101-111.
- Printzen, C. & Kantvilas, G. 2004. *Hertelidea*, genus novum Stereocaulacearum. *Biblioth. Lichenol.* 88: 539-553.
- Printzen, C. & May, P. 2002. *Lecanora ramulicola*, an overlooked lichen species from the *Lecanora symmicta* group. *Bryologist* 105: 63-69.
- Printzen, C. & Otte, V. 2005. *Biatora longispora*, new to Europe, and a revised key to European and Macaronesian *Biatora* species. *Graphis Scripta* 17: 56-61.
- Printzen, C. & Tønsberg, T. 1999. The lichen genus *Biatora* in northwestern North America. *Bryologist* 102: 692-713.
- Printzen, C. & Tønsberg, T. 2003. Four new species and three new apothecial pigments of *Biatora*. *Biblioth. Lichenol.* 86: 133-145.
- Printzen, C. & Tønsberg, T. 2004. New and interesting *Biatora*-species, mainly from North America. *Symb. Bot. Upsal.* 34(1): 343-357.
- Printzen, C. 1995. Die Flechtengattung *Biatora* in Europa. *Biblioth. Lichenol.* 60: 1-275.
- Printzen, C. 2001. Corticolous and lignicolous species of *Lecanora* with usnic or isousnic acid in the Sonoran Desert Region. *Bryologist* 104: 382-409.
- Printzen, C. 2014. A molecular phylogeny of the lichen genus *Biatora* including some morphologically similar species. *Lichenologist* 46: 441-453.
- Printzen, C., Holien, H. & Etayo, J. 1998. Two new *Biatora* species from western Norway and Madeira. *Lichenologist* 30: 213-219.
- Printzen, C., Lumbsch, H.T. & Orange, A. 2001. *Biatora britannica* sp. nov. and the occurrence of *Biatora efflorescens* in the British Isles. *Lichenologist* 33: 181-187.
- Printzen, C., Tønsberg, T. & Palice, Z. 2002. *Biatora aegrefaciens*, rare but widespread. *Graphis Scripta* 13: 37-38.

- Printzen, C., Spribille, T. & Tønsberg, T. 2008. Myochroidea, a new genus of corticolous, crustose lichens to accommodate the *Lecidea leprosula* group. *Lichenologist* 40: 195-207.
- Printzen, C., Halda, J.P., McCarthy, J.W., Palice, Z., Rodriguez-Flakus, P., Thor, G., Tønsberg, T. & Vondrák, J. 2016. Five new species of *Biatora* from four continents. *Herzogia* 29: 566-585.
- Punithalingam, E. & Spooner, B.M. 1997. *Phaeoseptoria peltigerae* sp. nov. associated with the lichen *Peltigera horizontalis*. *Mycol. Res.* 101: 292-294.
- Punithalingam, E. 1988. Ascochyta II. Species on monocotyledons (excluding grasses), cryptogams and gymnosperms. *Mycol. Papers* 159: 1-235.
- Puolasmaa, A. 1988. Riuttakarve (*Parmelia tiliacea*) Suomessa (*Parmelia tiliacea* in Finland). *Lutukka* 4 (3): 75-80.
- Puolasmaa, A. 1989. *Parmelia pastillifera* found in Finland. *Graphis Scripta* 2: 100-103.
- Puolasmaa, A. 1992. *Parmelia glabra* found in Finland. *Graphis Scripta* 4: 75-77.
- Puolasmaa, A., Pippola, E., Huhtinen, S., Hyvärinen, H. & Stenroos, S. 2008. One lichen and eleven lichenicolous species new to Finland. *Graphis Scripta* 20: 35-43.
- Puolasmaa, A., Toivanen, A., Marsh, T., Huhtinen, S. & Stenroos, S. 2012. *Peltigericolous* fungi from Finland - three genera and six species new to Finland. *Karstenia* 52: 1-52.
- Purvis, O.W. & James, P.W. 1985. Lichens of the Coniston copper mines. *Lichenologist* 17: 221-237.
- Purvis, O.W. 1984. The occurrence of copper oxalate in lichens growing on copper sulphide-bearing rocks in Scandinavia. *Lichenologist* 16: 197-204.
- Purvis, O.W. 1985. The effect of mineralization on lichen communities with special reference to cupriferous substrates (diss.). British Museum (Natural History, 309 pp. (stencil).
- Purvis, O.W., Gilbert, O.L. & James, P.W. 1985. The influence of copper mineralization on *Acarospora smaragdula*. *Lichenologist* 17: 111-114.
- Purvis, O.W., Elix, J.A., Broomhead, J.A. & Jones, G.C. 1987. The occurrence of copper-norstictic acid in lichens from cupriferous substrata. *Lichenologist* 19: 193-203.
- Purvis, O.W., Coppins, B.J., Hawksworth, D.L., James, P.W. & Moore, D.M. 1992. The lichen flora of Great Britain and Ireland. Natural History Museum Publications in association with The British Lichen Society.
- Purvis, O.W., Coppins, B.J. & James, P.W. 1993. Checklist of lichens of Great Britain and Ireland. *British Lichen Soc. Bull.* 72 (Suppl.).
- Pykälä, J. & Breuss, O. 2008. Eleven *Verrucaria* species new to Finland. *Österr. Z. Pilzk.* 17: 35-40.
- Pykälä, J. & Breuss, O. 2009. Six rare *Verrucaria* species new to Finland. *Österr. Z. Pilzk.* 18: 123-127.
- Pykälä, J. & Breuss, O. 2011. Notes on some rare *Verrucaria* species. *Österr. Z. Pilzk.* 20: 29-34.
- Pykälä, J. & Myllys, L. 2016. Three new species of *Atla* from calcareous rocks (*Verrucariaceae*, lichenized *Ascomycota*). *Lichenologist* 48: 111-120.
- Pykälä, J. 2006. Additions to the lichen flora of Finland. *Graphis Scripta* 18: 41-48.
- Pykälä, J. 2007. Additions to the lichen flora of Finland. II. Calcareous rocks and associated soils in Lohja. *Graphis Scripta* 19: 17-32.
- Pykälä, J. 2008. Additions to the lichen flora of Finland III. *Graphis Scripta* 20: 19-27.
- Pykälä, J. 2010a. Additions to the lichen flora of Finland. IV. *Graphis Scripta* 22: 18-27.
- Pykälä, J. 2010b. Additions to the lichen flora of Finland. V. *Graphis Scripta* 22: 54-62.
- Pykälä, J. 2010c. Notes on the lichen flora of the mountains Saana and Malla in NW Finland. *Mem. Soc. Fauna Fl. Fenn.* 86: 34-42.

- Pykälä, J. 2011. Additions to the lichen flora of Finland. VI. *Graphis Scripta* 23: 47-55.
- Pykälä, J. 2013. Additions to the lichen flora of Finland. VII. *Graphis Scripta* 25: 21-29.
- Pykälä, J. 2017. Additions to the lichen flora of Finland. VIII. *Graphis Scripta* 29: 1-5.
- Pykälä, J. 2018. Additions to the lichen flora of Finland. IX. *Graphis Scripta* 30: 155-160.
- Pykälä, J., Launis, A. & Myllys, L. 2017a. Four new species of *Verrucaria* from calcareous rocks in Finland. *Lichenologist* 49: 27-37.
- Pykälä, J., Launis, A. & Myllys, L. 2017b. *Verrucaria ahtii*, *V. oulankaensis* and *V. vitikainenii*, three new species from the *Endocarpon* group (*Verrucariaceae*, lichenized *Ascomycota*). *Lichenologist* 49: 107-116.
- Pykälä, J., Lendemer, J.C., Malicek, J., Haughland, D.L. & Huhtinen, S. 2017c. Interesting lichens found during the IAL8 pre-excursion in the south-western archipelago of Finland 2016. *Graphis Scripta* 29: 57-64.
- Pykälä, J., Launis, A. & Myllys, L. 2019. Taxonomy of the *Verrucaria kalenskyi* - *V. xyloxena* species complex in Finland. *Nova Hedwigia* 109: 489-511.
- Pykälä, J., Kantelinen, A. & Myllys, L. 2020. Taxonomy of *Verrucaria* species characterised by large spores, perithecia leaving pits in the rock and a pale thin thallus in Finland. *MycoKeys* 72: 43-92.
- Rambold, G. & Schwab, A.J. 1990. Rusty coloured species of the lichen genus *Miriquidica*. *Nord. J. Bot.* 10: 117-121.
- Rambold, G. & Triebel, D. 1990. *Gelatinopsis*, *Geltingia* and *Phaeopyxis*: three helotialean genera with lichenicolous species. *Notes R. Bot. Gard. Edinb.* 46: 375-389.
- Rambold, G. & Triebel, D. 1992. The inter-lecanoralean associations. *Biblioth. Lichenol.* 48: 1-201.
- Rambold, G. 1989. A monograph of the saxicolous lecideoid lichens of Australia. *Biblioth. Lichenol.* 34: 1-345.
- Rambold, G., Hertel, H. & Triebel, D. 1990. *Koerberiella wimmeriana* and its lichenicolous fungi. *Lichenologist* 22: 225-240.
- Rambold, G., Triebel, D. & Hertel, H. 1993. *Imadophilaceae*, a new family in the *Leotiales*. *Biblioth. Lichenol.* 53: 217-240.
- Randlane, T. & Thell, A. 2011. *Flavocetraria*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 52-53, 139.
- Randlane, T. & Saag, A. 1991. Chemical and morphological variation in the genus *Cetrelia* in the Soviet Union. *Lichenologist* 23: 113-126.
- Randlane, T. & Saag, A. 1992. New combinations of some cetrarioid lichens. *Mycotaxon* 44: 491-493.
- Randlane, T. & Thell, A. 2011. *Asahinea*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 21-22.
- Rassadina, K.A. 1964. *Menegazzia* in USSR. *Nov. Syst. Plant. non Vascul.* 1964: 235-250.
- Raven, J.A., Johnston, A.N., Handley, L.L. & McInroy, S.G. 1990. Transport and assimilation of inorganic carbon by *Lichina pygmaea* under emersed and submersed conditions. *New Phytol.* 114: 407-417.
- Redhead, S.A., Lutzoni, F., Moncalvo, J.-M. & Vilgalys, R. 2002. Phylogeny of Agarics: Partial systematics solutions for core for omphalinoid genera in the *Agaricales*. *Mycotaxon* 83: 19-57.
- Redinger, K. 1937. *Arthoniaceae*. *Rabenhorst's Krypt.-Fl.*, ed. 2, 9, 2(1), 1: 1-180.
- Redinger, K. 1938. *Graphidaceae*. *Rabenhorst's Krypt.-Fl.*, ed. 2, 9, 2(1), 2: 181-404.
- Reese Naesborg, R. 2008. Taxonomic revision of the *Lecania cyrtella* group based on molecular and morphological evidence. *Mycologia* 100: 397-416.

- Reese Naesborg, R., Ekman, S. & Tibell, L. 2007. Molecular phylogeny of the genus *Lecania* (Ramalinaceae, lichenized Ascomycota). *Mycol. Res.* 111: 581-591.
- Renobales, G. & Noya, R. 1991. Estudio morfológico comparado de *Verrucaria maura* y *V. amphibia* en la Costa Vasca. *Acta Bot. Malacit.* 16: 149-156.
- Resl, P., Schneider, K., Westberg, M., Printzen, C., Palice, Z., Thor, G., Fryday, A., Mayrhofer, H. & Spribille, T. 2015. Diagnostics for a troubled backbone: testing topological hypotheses of trapelioid lichenized fungi in a large-scale phylogeny of strombovctidae (Lecanoromycetes). *Fungal*
- Resl, P., Mayrhofer, H., Clayden, S.R., Spribille, T., Thor, G., Tønsberg, T. & Sheard, J.W. 2016. Morphological, chemical and species delimitation analyses provide new taxonomic insights into two groups of Rinodina. *Lichenologist* 48: 469-488.
- Reve, T. 1981. *Parmelia mougeotii* (steingardslav) i Norge, spesielt om forekomsten på Jæren. *Blyttia* 39: 121-124.
- Riedl, H. 1963. Vorstudien zu einer Revision der Gattung *Arthopyrenia* Mass. sensu ampl. *Í. Sydowia* 16: 263-274.
- Riedl, H. 1969. Beobachtungen an *Pleospora Hookeri* (Borr.) Keissler und einigen weiteren *Pleospora*-Arten. *Sydowia* 22: 396-402.
- Rikkinen, J. 2003. New resinicolous ascomycetes from beaver scars in western North America. *Ann. Bot. Fennici* 40: 443-450.
- Rodenborg, L. 1972. Beiträge zur Flechtenflora von Öland. *Svensk Bot. Tidskr.* 66: 103-112.
- Rodenborg, L. 1977. Epilithische Vegetation in einem alten Weidegebiet auf Mittel-Öland, Schweden. *Biblioth. Lichenol.* 8: 1-108.
- Ropin, K. & Mayrhofer, H. 1993. Zur Kenntnis corticoler Arten der Gattung *Rinodina* in der Ostalpen und angrenzenden Gebieten. *Herzogia* 9: 779-835.
- Rossmann, A.Y., Samuels, G.J., Rogerson, C.T. & Lowen, R. 1999. Genera of Bionectriaceae, hypocreaceae and Nectriaceae (Hypocreales, Ascomycetes). *Studies in Mycology* 42: 1-248.
- Rostrup, E. 1870. Faeroernes Flora, en floristisk Skitse. *Bot. Tidsskr.* 4: 5-109.
- Roux, C. & Triebel, D. 1994. Révision des especes de *Stigmidium* et de *Sphaerellothecium* correspondant a *Pharcidia epicymatia* sensu Keissler ou a *Stigmidium schaeferi* auct. *Bull. Soc. Linn. Provence* 45: 451-542.
- Roux, C., Triebel, D., Bricaud, O. & Le Coeur, D. 1995. *Le Stigmidium lecidellae* sp. nov. et remarques sur le genre *Stigmidium*. *Canad. J. Bot.* 73: 662-672.
- Roux, C., Gueidan, C. & Navarro-Rosinés, P. 2002. La position systématique de *Polyblastia deminuta*. *Mycotaxon* 84: 1-20.
- Rui, H. 1943. Funn av sjeldne laver i Norge. *Blyttia* 2: 96-99.
- Runemark, H. 1956a. Studies in *Rhizocarpon* I. *Opera Bot.* 2(1): 1-152.
- Runemark, H. 1956b. Studies in *Rhizocarpon* II. *Opera Bot.* 2(2): 1-150.
- Ruoss, E. & Ahti, T. 1985. Die Rentierflechten (*Cladonia* subgen. *Cladina*) im Herbarium Wallroth, Strassburg. *Nova Hedwigia* 41: 147-158.
- Ruoss, E. 1987a. Species differentiation in a group of reindeer lichens (*Cladonia* subg. *Cladina*). *Biblioth. Lichenol.* 25: 197-206.
- Ruoss, E. 1987b. Chemotaxonomische und morphologische Untersuchungen an den Rentierflechten *Cladonia arbuscula* und *C. mitis*. *Bot. Helvetica* 97: 239-263.
- Ryvarden, L. 1968. *Umbilicaria aprina* Nyl., a rare lichen. *Bryologist* 71: 366-368.
- Räsänen, V. 1927. Über Flechtenstandorte und Flechtenvegetation im Westlichen Nordfinland. *Ann. Bot. Soc. Zool.-Bot. Fenn. Vanamo* 7: 1-202.

- Räsänen, V. 1931. Die Flechten Estlands. Ann. Acad. Sci. Fenn. ser. A, 34(4): 3-163.
- Räsänen, V. 1934. Einige neue Flechtenarten und Flechtenparasiten. Ann. Bot. Soc. Zool.-Bot. Fenn. Vanamo 5: 4-12.
- Räsänen, V. 1939. Die Flechtenflora der nördlichen Küstengegend am Laatokka-See. Ann. Bot. Soc. Zool.-Bot. Fenn. Vanamo 12(1): 1-240.
- Räsänen, V. 1946. Professori Kaarlo Linkolan vuonna 1931 Liettuasta keräämät jäkälät. Lichens a Professor Dr. Kaarlo Linkola anno 1931 in Lituania (sic!) collecti. Luonnon Ystävain Yhdistyksen Julkaisuja, Sarja B 2: 1-16.
- Räsänen, V. 1947. Lichenes Novi. II. Ann. Bot. Soc. Zool.-Bot. Fenn. Vanamo 21: 1-7.
- Rösberg, I. 1989. Utbredelsen av *Graphis elegans* og *Buellia arnoldii* i Norge. *Graphis Scripta* 2: 81-82.
- Saag, L., Saag, A. & Randlane, T. 2009. World survey of the genus *Lepraria* (Stereocaulaceae). *Lichenologist* 41: 25-60.
- Salisbury, G. 1966. A monograph of the lichen genus *Thelocarpon*. *Lichenologist* 3: 175-196.
- Salisbury, G. 1972. *Thelotrema* sect. *Thelotrema*. 1. The *T. lepadinum* group. *Lichenologist* 5: 262-274.
- Salisbury, G. 1974. A monograph of the fungal genus *Ahlesia* Fuck. *Nova Hedwigia* 25: 693-698.
- Salisbury, G. 1975. *Thelotrema* monosporum in Britain. *Lichenologist* 7: 59-61.
- Sancho, L.G. 1982. Nuevos datos sobre las umbilicariaceas (liqueses) ibericas. *Collectanea Bot.* 13: 339-349.
- Sandstede, H. 1931. Die Gattung *Cladonia*. Rabenhorst's Krypt.-Fl., ed. 2, 9, 4(2): 1-531.
- Santesson, R. & Tønsberg, T. 1994. *Arthrorhaphis aeruginosa* and *A. olivacea*, two new lichenicolous fungi. *Lichenologist* 26: 295-299.
- Santesson, C.G. 1939a. Notizüber die giftige Fuchsoder Wolfsflechte. *Arkiv Bot.* 29A(14): 1-6.
- Santesson, R. 1939b. Über die Zonationsverhältnisse der lakustrinen Flechten einiger Seen im Anebodagebiet. *Meddelanden från Lunds universitets limnologiska insitution* 1: 1-70.
- Santesson, R. 1939c. Amphibious *Pyrenolichens* 1. *Arkiv Bot.* 29A(10): 1-67.
- Santesson, R. 1942. The South American *Menegazzia*. *Arkiv Bot.* 30A(11): 1-35.
- Santesson, R. 1949. Svampar som leva på lavar. *Svensk Bot. Tidskr.* 43: 141-143.
- Santesson, R. 1952. Follicolous lichens 1. *Symb. Bot. Upsal.* 12(1): 1-590.
- Santesson, R. 1960. Lichenicolous fungi from Northern Spain. *Svensk Bot. Tidskr.* 54: 499-522.
- Santesson, J. 1969a. Chemical studies on lichens. 21. Two novel chlorinated lichen xanthenes. *Arkiv Kemi* 31(12): 121-124.
- Santesson, J. 1969b. Chemical studies on lichens. 16. The xanthenes of *Lecanora straminea*. Arthothelin and thiophanic acid. *Arkiv Kemi* 30(43): 449-454.
- Santesson, J. 1970. Antraquinones in *Caloplaca*. *Phytochemistry* 9: 2149-2166.
- Santesson, R. 1984a. The lichens of Sweden and Norway. Stockholm and Uppsala, 333 pp.
- Santesson, R. 1984b. Fungi lichenicoli exs., Fasc. 1 & 2 (No 1-50). *Publs Herb. Univ. Uppsala.* 13: 1-20.
- Santesson, R. 1986. Fungi lichenicoli exs., Fasc. 3 & 4 (No 51-100). *Thunbergia* 3: 1-18.
- Santesson, R. 1988. Fungi lichenicoli exs., Fasc. 5 & 6 (No 101-150). *Thunbergia* 6: 1-18.
- Santesson, R. 1992. *Pyrenocollema elegans*, a new marine lichen. *Lichenologist* 24: 7-11.
- Santesson, R. 1993a. *Stigmatidium degelii*, a new lichenicolous fungus. *Graphis Scripta* 5: 3-4.
- Santesson, R. 1993b. The lichens and lichenicolous fungi of Sweden and Norway. Lund. 240 pp.

- Santesson, R. 1994a. Fungi lichenicoli exs., Fasc. 7 & 8 (No 151-200). *Thunbergia* 21: 1-18.
- Santesson, R. 1994b. Fungi lichenicoli exs., Fasc. 9 & 10 (No 201-250). *Thunbergia* 22: 1-24.
- Santesson, R. 1998. Fungi lichenicoli exs., Fasc. 11 & 12 (No 251-300). *Thunbergia* 28: 1-19.
- Santesson, R. 2001. Fungi lichenicoli exs., Fasc. 13 & 14 (No 301-350). *Thunbergia* 31: 1-18.
- Santesson, R., Moberg, R., Nordin, A., Tønsberg, T. & Vitikainen, O. 2004. Lichen-forming and lichenicolous fungi of Fennoscandia. *Museum of Evolution, Uppsala University* 359 pp..
- Savić, S. & Tibell, L. 2008a. *Atla*, a new genus in the Verrucariaceae (Verrucariales). *Lichenologist* 40: 269-282.
- Savić, S. & Tibell, L. 2008b. The lichen genus *Henrica* (Verrucariaceae) in Northern Europe. *Nord. J. Bot.* 26: 237-247.
- Savić, S. & Tibell, L. 2009. Taxonomy and species delimitation in *Sporodictyon* (Verrucariaceae) in Northern Europe and adjacent Arctic - reconciling molecular and morphological data. *Taxon* 58: 585-605.
- Savić, S. & Tibell, L. 2012. *Polyblastia* in Northern Europe and the adjacent Arctic. *Symb. Bot. Upsal.* 36(1): 1-69.
- Schade, A. 1939. *Rhizocarpon simillimum* (Anzi) Lettau. Eine für Skandinavien neue Flechte, in Gesellschaft interessanter Kümmerformen anderer Krustenflechten. *Svensk Bot. Tidskr.* 33: 347-365.
- Schade, A. 1963. Über *Rhizocarpon constrictum* Malme und var. *polycarpoides* Erichs. als Alterzustände von *Rhizocarpon polycarpum* Th.Fr. *Nova Hedwigia* 005: 283-303.
- Schaechtelin, J. & Werner, R.G. 1928. The *Homostegia pigottii* (Berk. et Br.) Karst. sont développement biologique et physiologique. *Bull. Soc. Mycol. France* 44: 232-240.
- Schauer, T. 1964. Die Flechtengattung *Mycoblastus* in Mitteleuropa. *Nova Hedwigia* 008: 301-310.
- Schauer, T. 1965. Die Holz- und Rindenbewohnenden Arten der Flechtengattung *Buellia* s. str. im Nordalpenraum. *Mitt. Bot. Staatssamml. München* 5: 609-626.
- Schauer, T. 1966 ("1965"). Ozeanische Flechten im Nordalpenraum. *Portugaliae Acta Biol. (B)* 8: 17-229.
- Scheidegger, C. & Ruef, B. 1988. Die xanthonhaltigen, gesteinbewohnenden Sippen der Flechtengattung *Buellia* in Europa. *Nova Hedwigia* 47: 433-468.
- Scheidegger, C. 1982. *Anzina Scheid.*, gen. nov. In: Vezda, Schedae ad Lichenes selecti exsiccati 73: 5.
- Scheidegger, C. 1987. *Buellia uberior* und *B. miriquidica*, zwei lichenicole Krustenflechten auf *Schaereria tenebrosa*. *Bot. Helvetica* 97: 99-116.
- Scheidegger, C. 1988. Beiträge zu einer Revision gesteinbewohnender Sippen der Flechtengattung *Buellia* de Not. in Europa. Dissertation, Universität Bern, pp. 120.
- Scheidegger, C. 1993. A revision of European saxicolous species of the genus *Buellia* and formerly included genera. *Lichenologist* 25: 315-364.
- Schipperges, B., Kappen, L. & Sonesson, M. 1995. Intraspecific variations of morphology and physiology of temperate to arctic populations of *Cetraria nivalis*. *Lichenologist* 27: 517-529.
- Schmidt, A. 1970. Anatomisch-taxonomische Untersuchungen europäischer Arten der Flechtenfamilie Caliciaceae. *Mitt. Inst. Allg. Bot. Hamburg* 13: 111-166.
- Schmitt, I., Otte, J., Parnmen, S. & Sadowska-Des, A.D. 2012. A new circumscription of the genus *Varicellaria* (Pertusariales, Ascomycota). *MycKeys* 04: 23-36.

- Schmitz, K.E., Lumbsch, H.T. & Feige, G.B. 1994. Systematic studies in the Pertusariales II. The generic concept in the Pertusariaceae. *Acta Bot. Fenn.* 150: 153-160.
- Schneider, G. 1980 ("1979"). Die Flechtengattung *Psora* sensu Zahlbruckner. *Biblioth. Lichenol.* 13: 1-291.
- Scholander, P.F. 1933. Notes on *Peltigera erumpens* (Tayl.) Vain. s.l. *Nytt Mag. Naturvid.* 73: 21-54.
- Scholander, P.F. 1934. On the apothecia in the lichen family Umbilicariaceae. *Nytt Mag. Naturvid.* 75: 1-31.
- Scholz, P. 1994. *Lecanora fugiens* new to Sweden. *Graphis Scripta* 6: 56.
- Schreiner, E. & Hafellner, J. 1992. Sorediöse, corticole Krustenflechten im Ostalpenraum. I. Die Flechtenstoffe und die gesicherte Verbreitung der besser bekannten Arten. *Biblioth. Lichenol.* 45: 1-290.
- Schultz, M. & Büdel, B. 2002. Key to the genera of the Lichinaceae. *Lichenologist* 34: 39-62.
- Schultz, M. 2006. *Cryptothele rhodosticta* new to Scandinavia from Norway. *Graphis Scripta* 18: 49-51.
- Schultz, M., Wedin, M., Diel, H. & Prieto, M. 2015. *Epiphloea* belongs to Collemataceae (Lecanoromycetes, lichenized Ascomycota). *Lichenologist* 47: 369-378.
- Schwab, A.J. 1986. Rostfärbene Arten der Sammelgattung *Lecidea*. Revision der Arten Mittel- und Nordeuropas. *Mitt. Bot. Staatssamml. München* 22: 221-476.
- Schöller, H. 1997. Anthropogene Lebensraumgestalt und Biodiversität von Flechten. In Schöller, H. (Ed.), *Flechten*: 157-166.
- Selva, S.B. & Tibell, L. 1999. Lichenized and non-lichenized calicioid fungi from North America. *Bryologist* 102: 377-397.
- Sernander-Du Rietz, G. 1969. Förekomster av *Physcia magnussonii* Frey i Skandinavien och på sydvästra Grönland. *Svensk Bot. Tidskr.* 63: 377-386.
- Sérusiaux, E. 1989. Foliicolous lichens: ecological and chorological data. *Bot. J. Linn. Soc.* 100: 87-96.
- Sérusiaux, E. 1993. New taxa of foliicolous lichens from Western Europe and Macaronesia. *Nord. J. Bot.* 13: 447-461.
- Sérusiaux, E. 1996. Foliicolous lichens from Madeira, with the description of a new genus and two new species and a world-wide key of foliicolous *Fellhanera*. *Lichenologist* 28: 197-227.
- Sérusiaux, E., Diederich, P., Brand, A.M. & van den Boom, P. 1999. New or interesting lichens and lichenicolous fungi from Belgium and Luxembourg. *Lejeunia* 162: 1-95.
- Sérusiaux, E., Diederich, P., Ertz, D. & van den Boom, P.P.G. 2003. New or interesting lichens and lichenicolous fungi from Belgium, Luxembourg and Northeastern France. IX. *Lejeunia* 173: 1-48.
- Sérusiaux, E., Berger, F., Coppins, B.J. & Roux, C. 2005. A further new species of *Strigula* from Europe. *Lichenologist* 37: 481-483.
- Sérusiaux, E., Brand, A.M., Motiejūnaitė, J., Orange, A. & Coppins, B.J. 2010. *Lecidea doliiformis* belongs to *Micarea*, *Catillaria alba* to *Biatora*, and *Biatora ligni-mollis* occurs in Western Europe. *Bryologist* 113: 333-344.
- Servít, M. 1946. The new lichens of the *Pyrenocarpae*-Group. I. *Studia Bot. Cech.* 7: 49-111.
- Servít, M. 1948. The new lichens of the *Pyrenocarpae*-group. II. *Studia Bot. Cech.* 9: 67-115.
- Servít, M. 1949. Nove nebo mene zname druhy lisejnikovce celedi *Verrucariaceae*. *Species Verrucariacearum (Lichenes) novae vel minus cognitae*. *Sbornik Narodniho Musea v Praze* 5: 1-51.
- Servít, M. 1950. The new lichens of the *Pyrenocarpae*-group III. *Studia Bot. Cech.* 11(1-2): 1-35.

- Servít, M. 1952. Nove a malo zname druhy z celedi Verrucariaceae a Dermatocarpaceae. [Neue und weniger bekannte Arten der Familien Verrucariaceae und Dermatocarpaceae.]. Preslia 24: 345-390.
- Servít, M. 1953. Species novae Verruciarum et generum affinium. Rozpravy Cesk. Akad. Ved 63(7): 1-33.
- Servít, M. 1954. Ceskoslovenske lisejniky celedi Verrucariaceae, lichenes familiae Verrucariacearum. Ceskoslovenska Akademie Ved, Praha, 248 pp.
- Servít, M. 1955. Nove lisejniky. Lichenes novi. Rozp. Ceskoslov. Acad. Ved 65(3): 1-45.
- Sheard, J.W. & Ahti, T. 1975. The lichen *Dimelaena oreina* in east-central Asia, with notes on its typification and chemical races. Ann. Bot. Fennici 12: 89-92.
- Sheard, J.W. 1964. The genus *Buellia* in the British Isles. Lichenologist 2: 225-262.
- Sheard, J.W. 1977. Paleogeography, chemistry and taxonomy of the lichenized Ascomycetes *Dimelaena* and *Thamnomia*. Bryologist 80: 100-118.
- Sheard, J.W. 1978. The taxonomy of the *Ramalina siliquosa* species aggregate (lichenized Ascomycetes). Canad. J. Bot. 56: 916-938.
- Sheard, J.W. 2010. The lichen genus *Rinodina* (Ach.) Gray (Physciaceae) in North America, North of Mexico. NCR Research Press, Ottawa, Ontario, Canada. 246 pp.
- Sheard, J.W. 2018. A synopsis and new key to the species of *Rinodina* (Ach.) Gray (Physciaceae, lichenized Ascomycetes) presently recognized in North America. Herzogia 31: 395-423.
- Sheard, J.W., Tønsberg, T. & Johnsen, J.I. 2010. *Rinodina orculata* and *R. roboris* new to Fennoscandia. Graphis Scripta 22: 43-46.
- Sheard, J.W. et al. 2017. The lichen genus *Rinodina* (Physciaceae, Caliciales) in north-eastern Asia. Lichenologist 49: 617-672.
- Sherwood, M.A. 1977. The Ostropalean fungi. Mycotaxon 005: 1-277.
- Sherwood, M.A., Hawksworth, D.L. & Coppins, B.J. 1980. *Skyttea*, a new genus of Odontotremoid lichenicolous fungi. Trans. British Mycol. Soc. 75: 479-490.
- Sherwood-Pike, M.A. 1987. The Ostropales fungi III: The Odontotremataceae. Mycotaxon 28: 137-177.
- Sierk, H.A. 1964. The genus *Leptogium* in North America north of Mexico. Bryologist 67: 245-317.
- Sikaroodi, M., Lawrey, J.D., Hawksworth, D.L. & DePriest, P. 2001. The phylogenetic position of selected lichenicolous fungi: *Hobsonia*, *Illosporium*, and *Marchandiomyces*. Mycol. Res. 105: 453-460.
- Sipman, H.J.M. 1983. A monograph of the lichen family *Megalosporaceae*. Biblioth. Lichenol. 18: 1-241.
- Sjöqvist, O. 1983. Floristisk notis, lav. *Acarospora chlorophana* i Södermanland, Vårdinge. Svensk Bot. Tidskr. 77: 198.
- Skarp, L. 1999. Distribution, habitat ecology and morphological variation in *Sclerophora coniotheca*. Exanensarbete i biologi, Uppsala univ., 36 pp.
- Skarpe, C. & Bergström, R. 1981. Ny lokal i Uppland för *Usnea florida*. Svensk Bot. Tidskr. 75: 145-146.
- Skjolddal, L.H. 1982. Lavflora og lavsamfunn på Kårsø og Ognøy, Tysvaer og Bokn kommuner, Rogaland. In: Blom et al., Vegetasjon og flora på Kårsø, Tysvaer kommune, Rogaland, Rapport 22. Del IV: 1-78.
- Skjolddal, L.H. 1983. Saxicole lav pa Vindenes, et område i ytre lynghieiregionen i Hordaland. Hovedfagsoppgave, Bergens univ., 197 pp.
- Skuja, H. & Ore, M. 1935. Die Flechte *Coenogonium nigrum* (Huds.) Zahlbr. und ihre Gonidie. Acta Horti Botanici Universitatis Latviensis 8: 21-44.

- Skult, H. 1984. The *Parmelia omphalodes* complex in Eastern Fennoscandia. *Ann. Bot. Fennici* 21: 117-142.
- Skult, H. 1987. The *Parmelia omphalodes* complex in the Northern Hemisphere. Chemical and morphological aspects. *Ann. Bot. Fennici* 24: 371-383.
- Skult, H. 1990. Notes on *Parmelia* (*Xanthoparmelia*) *plittii* and *P. conspersa* in Finland. *Graphis Scripta* 3: 15-18.
- Skult, H. 1992. Notes on the status of *Xanthoparmelia angustiphylla* versus *X. conspersa*. *Graphis Scripta* 3: 132-134.
- Skult, H. 1997. Notes on the chemical and morphological variation of the lichen *Ophioparma ventosa* in East Fennoscandia. *Ann. Bot. Fennici* 34: 291-297.
- Skult, H., Hägg, M. & Djupsund, B. 1990. Seasonal variation of isozyme and total protein phenotypes in populations of the lichen *Parmelia omphalodes*. *Ann. Bot. Fennici* 27: 47-52, 1990.
- Skytén, R. 1993. *Ramalina elegans*, new to Sweden and Norway. *Graphis Scripta* 5: 93-95.
- Slavíková-Bayerová, S. & Orange, A. 2006. Three new species of *Lepraria* (Ascomycota, Stereocaulaceae) containing fatty acids and atranorin. *Lichenologist* 38: 503-513.
- Śliwa, L. 2007a. *Lecanora semipallida*, the correct name for *L. xanthostoma*, and a reappraisal of *L. flotoviana* (Lecanoraceae). *Polish Bot. J.* 52: 71-79.
- Śliwa, L. 2007b. A revision of the *Lecanora dispersa* complex in North America. *Polish Bot. J.* 52: 1-70.
- Śliwa, L. 2017. New combinations for *Myriolecis zosteræ* (Ascomycota, Lichenized Fungi) varieties and a new record of the species for Poland. *Polish Bot. J.* 62: 37-39.
- Smith, A.L. 1926. A monograph of the British lichens 2, 2nd ed. London, 447 pp., 63 pl.
- Sommerfelt, C. 1826. Supplementum Flora lapponicae. Christianiae, 331 pp., 3 pl.
- Sonesson, M. 1990. Snömärkeslaven och Olivacea-gränsen. *Documenta* 50: 54-55.
- Soun, J., Vondrák, J., Søchting, U., Hrouzek, P., Khodosovtsev, A. & Arup, U. 2011. Taxonomy and phylogeny of the *Caloplaca cerina* group in Europe. *Lichenologist* 43: 113-135.
- Sparrius, L.B. 2004. A monograph of *Enterographa* and *Sclerophyton*. *Biblioth. Lichenol.* 89: 1-141.
- Sparrius, L.B., Spier, L., Breuss, O. & Vervoort, M. 2007. Contributions to the lichen flora of the Hardangervidda mountain plateau and adjacent areas, Norway. *Graphis Scripta* 19: 53-55.
- Spooner, B.M. & Kirk, P.M. 1990. Observations on some genera of *Trichothyriaceae*. *Mycol. Res.* 94: 223-230.
- Spribile, T., Björk, C.R., Ekman, S., Elix, J.A., Goward, T., Printzen, C., Tønsberg, T. & Wheeler, T. 2009. Contributions to an epiphytic lichen flora of northwest North America: I. Eight new species from British Columbia inland rain forests. *Bryologist* 112: 109-137.
- Spribile, T., Pérez-Ortega, S., Tønsberg, T. & Schirokauer, D. 2010. Lichens and lichenicolous fungi of the Klondyke Gold Rush National Historic Park, Alaska, in a global biodiversity context. *Bryologist* 113: 439-515.
- Spribile, T., Goffinet, B., Klug, B., Muggia, I., Obermayer, W. & Mayrhofer, H. 2011. Molecular support for the recognition of the *Mycoblastus fucatus* group as the new genus *Violella* (Tephromelataceae). *Lichenologist* 43: 445-466.
- Spribile, T., Ahti, T., Pérez-Ortega, S., Tønsberg, T., Mayrhofer, H. & Lumbsch, H.T. 2015 ("2014"). Molecular systematics of the wood-inhabiting, lichen-forming genus *Xylographa* (Baecomycetales, Ostropomycetidae) with eight new species. *Symb. Bot. Upsal.* 37(1): 1-87.

- Spribile, T. et al. 2020. Lichens and associated fungi from Glacier Bay National Park, Alaska. *Lichenologist* 52: 061-181.
- Staiger, B. & Kalb, K. 1995. *Haematomma*-Studien. 1. Die Flechtengattung *Haematomma*. *Biblioth. Lichenol.* 59: 1-198.
- Steiner, M. & Poelt, J. 1982. *Caloplaca* sect. *Xanthoriella*, sect. nov.: Untersuchungen über die "Xanthoria lobulata-Gruppe" (Lichenes, Teloschistaceae). *Pl. Syst. Evol.* 140: 151-177.
- Stenhammar, C. 1847. Om Gotlands lafvegetation. *K. Svenska Vetensk.-Akad. Handl.* 1846: 171-224.
- Stenroos, S. & Ahti, T. 1990. The lichen family Cladoniaceae in Tierra del Fuego: problematic or otherwise noteworthy taxa. *Ann. Bot. Fennici* 27: 317-327.
- Stenroos, S. 1989a. Taxonomy of the *Cladonia coccifera* group. 1. *Ann. Bot. Fennici* 26: 157-168.
- Stenroos, S. 1989b. Taxonomic revision of the *Cladonia coccifera* group. 2. *Ann. Bot. Fennici* 26: 307-317.
- Stenroos, S. 1990. *Cladonia luteoalba* - an enigmatic *Cladonia*. *Karstenia* 30: 27-32.
- Stenroos, S., Velmala, S., Pykälä, J. & Ahti, T. 2016. Lichens of Finland. *Norrinia* 30: 1-896.
- Stridvall, L. & Stridvall, A. 2005. Glädjande nyhet om *Caloplaca proteus*. *Lavbulletinen* 2005(2): 71-72.
- Stridvall, L. & Stridvall, A. 2008. SLF:s höstexkursion till nordvästra Härjedalen 24-26 augusti 2007. *Lavbulletinen* 2008(1): 12-24.
- Stålberg, N. 1939. Lake Vättern. *Acta Phytogeogr. Suecica* 11: 1-52.
- Suija, A. & Jürriado, I. 2020. Records of new and interesting lichenicolous fungi from Finland and Norway. *Graphis Scripta* 32: 86-100.
- Suija, A., Pérez-Ortega, S. & Hawksworth, D.L. 2011. *Abrothallus halei*, a new lichenicolous fungus on *Lobaria* species in Europe and North America. *Lichenologist* 43: 51-55.
- Suija, A., de los Rios, A. & Pérez-Ortega, S. 2015. A molecular reappraisal of *Abrothallus* species growing on lichens of the order Peltigerales. *Phytotaxa* 195: 201-226.
- Sundell, S. 1963. Lavar från Värmland I. *Svensk Bot. Tidskr.* 57: 193-257.
- Sundell, S. 1972. Lavar från Värmland II. *Svensk Bot. Tidskr.* 66: 159-183.
- Sundin, R. & Tehler, A. 1998. Phylogenetic studies of the genus *Arthonia*. *Lichenologist* 30: 381-413.
- Sundin, R. 1998. *Arthonia arthonioides* reported from Sweden. *Graphis Scripta* 9: 1-3.
- Sundin, R. 1999. Phylogenetic and taxonomic studies within *Arthonia*. Dissertation Botaniska institutionen, Stockholms universitet.
- Sutton, B.C. & Muhr, L.-E. 1986. *Cheiromycina flabelliformis* gen. et sp. nov. on *Picea* from Sweden. *Nord. J. Bot.* 6: 831-836.
- Svensson, M. & Ekman, S. 2014. *Bacidia verecundula* ny för Sverige. *Lavbulletinen* 2014(1): 34-35.
- Svensson, M. & Owe-Larsson, B. 2019. Taxonomic notes on saxicolous lecideoid lichens (Ascomycota, Lecanoromycetes,) mainly from Fennoscandia. *Phytotaxa* 416: 43-50.
- Svensson, M. & Palice, Z. 2009. Additions to the mountain flora of Sweden. *Graphis Scripta* 21: 23-32.
- Svensson, M. & Thor, G. 2007. *Gyalidea fruticola*, a new corticolous lichen from Europe. *Lichenologist* 39: 335-338.
- Svensson, M. & Thor, G. 2011. *Micarea capitata*, a new bryophilous lichen from Sweden. *Lichenologist* 43: 401-405.

- Svensson, M. & Westberg, M. 2010. Additions to the lichen flora of Fennoscandia. *Graphis Scripta* 22: 33-37.
- Svensson, M. 2007. *Bacidia subcircumspecta* new to Sweden. *Graphis Scripta* 19: 56-57.
- Svensson, M. 2009. *Lecanora subaurea* - en förbisedd art med vid utbredning i Sverige. *Lavbulletinen* 2009(2): 83-86.
- Svensson, M. 2012. Om ekologi och eventuell hotbild hos stenpyttelav *Strangospora torvula*. *Lavbulletinen* 2012(1): 16-20.
- Svensson, M., Ekendahl, T., Arup, U., Berglund, T., Gustavsson, N., Jonsson, F., Löfgren, P., Thor, G. & Westberg, M. 2009. SLF:s höstexkursion till Skäckerfjällen 15-17 augusti 2008. *Lavbulletinen* 2009(1): 4-24.
- Svensson, M., Westberg, M., Arup, U., Henriksson, J., Persson, J. & Rutschman, D. 2011. SLFs exkursion till Skäckerfjällen (Jämtland) 13-15 augusti 2010. *Lavbulletinen* 2011(1): 4-16.
- Svensson, M., Ekman, S. & Knutsson, T. 2017a. *Porpidia nadvornikiana* i Sverige. *Lavbulletinen* 2017(1): 30-33.
- Svensson, M., Ekman, S., Klepsland, J.T., Nordin, A., Thor, G., von Hirschheydt, G., Jonsson, F., Knutsson, T., Lif, M., Spribille, T. & Westberg, M. 2017b. Taxonomic novelties and new records of Fennoscandian crustose lichens. *MycKeys* 25: 51-86.
- Svensson, M., Vicente, R. & Westberg, M. 2020. Additions to the lichen flora of Fennoscandia IV. *Graphis Scripta* 32: 52-62.
- Swinscow, T.D.V. 1960. *Cavernularia hultenii* in Scotland. *Lichenologist* 1: 179-183.
- Swinscow, T.D.V. 1961. *Pyrenocarpous* lichens: 2. *Lichenologist* 1: 242-250.
- Swinscow, T.D.V. 1962a. *Pyrenocarpous* lichens: 3. *Lichenologist* 2: 6-56.
- Swinscow, T.D.V. 1962b. An unusual parasymbiont of marine lichens. *Nature* 194: 500-502.
- Swinscow, T.D.V. 1963. *Pyrenocarpous* lichens: 4. *Lichenologist* 2: 152-166.
- Swinscow, T.D.V. 1964. *Pyrenocarpous* lichens: 6. *Lichenologist* 2: 276-283.
- Swinscow, T.D.V. 1965a. The marine species of *Arthopyrenia* in the British Isles. *Lichenologist* 3: 55-64.
- Swinscow, T.D.V. 1965b. *Pyrenocarpous* lichens: 9. *Lichenologist* 3: 72-83.
- Swinscow, T.D.V. 1966. *Pyrenocarpous* lichens: 10. *Polyblastia quartzina* new to British Isles. *Lichenologist* 3: 233-235.
- Swinscow, T.D.V. 1967a. *Pyrenocarpous* lichens: 11. A new species of *Arthopyrenia*. *Lichenologist* 3: 415-417.
- Swinscow, T.D.V. 1967b. *Pyrenocarpous* lichens: 12. The genus *Geisleria*. *Lichenologist* 3: 418-422.
- Swinscow, T.D.V. 1968. *Pyrenocarpous* lichens: 13. Fresh-water species of *Verrucaria* in the British Isles. *Lichenologist* 4: 34-54.
- Swinscow, T.D.V. 1970. *Pyrenocarpous* lichens: 14. *Arthopyrenia* sect. *Acrocordia* in the British Isles. *Lichenologist* 4: 218-233.
- Swinscow, T.D.V. 1971. *Pyrenocarpous* lichens: 15. Key to *Polyblastia* in the British Isles. *Lichenologist* 5: 92-113.
- Syrjänen, K., Pykälä, J., He, X., Laaka-Lindberg, S., Anttila, S., Sallantausta, T. & Vitikainen, O. 2010. Sammal- ja jäkäläretki Ahvenanmaalle 28.- 30.8. 2009. *Bryobrotherella* 13: 41-57.
- Søchting, U. & Alstrup, V. 1986. Lichens from Northern Norway. *Graphis Scripta* 1: 42-48.
- Søchting, U. & Arup, U. 2018. *Marchantia asserigena* comb. nov. a possible European immigrant from Australia. *Graphis Scripta* 30: 115-120.

- Søchting, U. & Arup, U. 2021. *Austroplaca sibirica* (lichenized Ascomycota, Teloschistaceae) - a bipolar lichen with an austral origin documented by molecular data. *Graphis Scripta* 33: 12-16.
- Søchting, U. & Frøberg, L. 2003. *Caloplaca asserigena*, the correct name for a small lichen with a unique chemistry. *Biblioth. Lichenol.* 86: 47-51.
- Søchting, U. & Gjelstrup, P. 1985. Lichen communities and the associated fauna on a rocky sea shore on Bornholm in the Baltic. *Holarctic Ecology* 8: 66-75.
- Søchting, U. 1976. The *Ramalina siliquosa* aggregate on the Danish island of Bornholm. *Bot. Tidsskr.* 71: 87-94.
- Søchting, U. 1980. *Trapeliopsis glaucolepidea* found in southern Scandinavia. *Lichenologist* 12: 247-248.
- Søchting, U. 1989. Lignicolous species of the lichen genus *Caloplaca* from Svalbard. *Opera Bot.* 100: 241-257.
- Søchting, U. 1992. On the identity and distribution of some Nordic *Caloplaca* species. *Graphis Scripta* 4: 91-92.
- Søchting, U. 1994. *Caloplaca ahtii* Søchting spec. nova and other *Caloplaca* species with greenish-blue soredia from the northern hemisphere. *Acta Bot. Fenn.* 150: 173-178.
- Søchting, U., Balschmidt Lorentsen, L. & Arup, U. 2008. The lichen genus *Caloplaca* on Svalbard. Notes and additions. *Nova Hedwigia* 87: 69-96.
- Søchting, U., Garido-Benavent, I., Seppelt, R., Castello, M., Pérez-Ortega, S., de los Rios Murillo, A., Sancho, L.G., Frödén, P. & Arup, U. 2014. *Charcotiana* and *Amundsenia*, two new genera in Teloschistaceae (lichenized Ascomycota, subfamily Xanthorioideae) hosting two new species from
- Sørensen Schei, A.J. 1984. Makrolavfloraen i Dovrefjell nasjonalpark. *Gunneria* 50: 1-117.
- Tehler, A. 1983. The genera *Dirina* and *Roccellina*. *Opera Bot.* 70: 1-86.
- Tehler, A., Ertz, D. & Irestedt, M. 2013. The genus *Dirina* (Roccellaceae, Arthoniales) revisited. *Lichenologist* 45: 427-476.
- Thell, A. & Kärnefelt, I. 2011a. *Bryocaulon*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 24-26.
- Thell, A. & Kärnefelt, I. 2011b. *Cetraria*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 37-43, 139.
- Thell, A. & Kärnefelt, I. 2011c. *Cetrariella*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 43-45.
- Thell, A. & Kärnefelt, I. 2011d. *Cetrelia*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 45-46.
- Thell, A. & Kärnefelt, I. 2011e. *Cornicularia*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 47.
- Thell, A. & Kärnefelt, I. 2011f. *Dactylina*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 48-49.
- Thell, A. & Westberg, M. 2011. *Brodoa*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 22-24.
- Thell, A. 1987. Förändringar i utbredningsbilden hos *Parmelia elegantula* och *P. laciniatula* i Skåne och Blekinge. Examensarete, Botaniska inst., Lunds universitet, 24 pp.
- Thell, A. 1995. A new position of the *Cetraria commixta* group in *Melanelia*. *Nova Hedwigia* 60: 407-422.
- Thell, A. 1996. Anatomy and taxonomy of cetrarioid lichens. *Dept. Syst. Bot., Lunds Univ.* 60 pp.
- Thell, A. 2003. *Parmelia ernstiae* – new to the Nordic flora. *Graphis Scripta* 14: 10.
- Thell, A. 2011a. *Parmelina*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 90-92, 140.
- Thell, A. 2011b. *Platismatia*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 97-98.

- Thell, A. 2011c. *Punctelia*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 102-105.
- Thell, A. 2011d. *Usnocetraria*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 127-128.
- Thell, A., Feuerer, T., Kärnefelt, I., Myllys, L. & Stenroos, S. 2004. Monophyletic groups within the *Parmeliaceae* identified by ITS rDNA, β -tubulin and GAPDH sequences. *Mycol. Progress* 3: 297-314.
- Thell, A., Ahti, T. & Randle, T. 2011a. *Vulpicida*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 128-130.
- Thell, A., Thor, G. & Ahti, T. 2011b. *Parmelia*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 83-90.
- Thell, A. et al. 2014. New or interesting lichens from the Vadstena area, Östergötland, Sweden. *Graphis Scripta* 26: 15-33.
- Thell, A., Tsurukau, A., Persson, P.-E., Hansson, M., Åsgård, E., Kärnefelt, I. & Seaward, M.R.D. 2017. *Parmelia ernstiae*, *P. serrana* and *P. submontana*, three species increasing in the Nordic countries. *Graphis Scripta* 29: 24-32.
- Theorin, P.G.E. 1875. Omberg's lafvegetation. *Öfvers. K. Vetensk.-Akad. Förhandl.* 1875: 139-157.
- Theorin, P.G.E. 1892. Några lafväxtställen. *Bot. Notiser* 1892: 49-56.
- Thomson, J.W. & Scotter, G.W. 1983. Lichens from Bathurst Inlet Region, Northwest Territories, Canada. *Bryologist* 86: 14-22.
- Thomson, J.W. 1963. The lichen genus *Physcia* in North America. *Beih. Nova Hedwigia* 007: 1-172.
- Thomson, J.W. 1966. The relationship of *Baeomyces fuscorufescens* Vainio and *B. carneus* (Retz.) Flörke. *Mem. Soc. Fauna Fl. Fenn.* 42: 49-53.
- Thomson, J.W. 1967. The lichen genus *Baeomyces* in North America north of Mexico. *Bryologist* 70: 285-298.
- Thomson, J.W. 1968 ("1967"). Notes on *Rhizocarpon* in The Arctic. *Nova Hedwigia* 014: 421-481.
- Thomson, J.W. 1973. Notes on American Arctic species of *Candelariella*. *Rev. Fac. Cienc. Lisboa* 2 sér., C, 17: 747-759.
- Thor, G. & Arvidsson, L. 1999. Rödlistade lavar i Sverige. *Artdatabanken, SLU*, pp 528.
- Thor, G. & Hultengren, S. 2001. Bidrag till Bohusläns lavflora med *Porina leptalea* ny för Sverige. *Graphis Scripta* 12: 59-62.
- Thor, G. & Kannesten, C. 1990. *Sticta sylvatica*, ärrlav, återfunnen i Sverige. *Windahlia* 18: 31-33.
- Thor, G. & Muhr, L.-E. 1991. *Buellia violaceofusca*, a new lichen from Sweden. *Lichenologist* 23: 11-13.
- Thor, G. & Svensson, M. 2008. *Micarea tomentosa* new to Sweden. *Graphis Scripta* 20: 28-30.
- Thor, G. & Timdal, E. 1986. *Aspicilia excavata*: a new lichen species from Europe. *Lichenologist* 18: 179-182.
- Thor, G. & Timdal, E. 1992. *Aspicilia moenium*, the correct name for *Aspicilia excavata*. *Graphis Scripta* 4: 66.
- Thor, G. 1982. *Botaniska Sällskapet i Stockholm. Exkursion till Mörkö*. *Svensk Bot. Tidskr.* 76: 201.
- Thor, G. 1985. A new species of *Lichenostigma*, a lichenicolous ascomycete. *Lichenologist* 17: 269-272.
- Thor, G. 1988. *Caloplaca lucifuga*: a new lichen species from Europe. *Lichenologist* 20: 175-178.
- Thor, G. 1992a. The 9th meeting of the Nordic Lichen Society, Sweden. *Graphis Scripta* 4: 19-29.
- Thor, G. 1992b. *Toninia candida* new to Sweden. *Graphis Scripta* 4: 67-68.
- Thor, G. 1993a. The lichen flora in the former shipyard Eriksbergssvarvet, Göteborg. *Graphis Scripta* 5: 77-84.

- Thor, G. 1993b. Lavfloran på Visingsö. *Graphis Scripta* 5: 105-116.
- Thor, G. 1996. The biology and distribution of tree red listed lichens in Sweden. *Symb. Bot. Upsal.* 31 (3): 355-363.
- Thor, G. 2000. Lavar: Samarbete med kulturminnesvården efterlyses. *Svensk Bot. Tidskr.* 94: 157-160.
- Thor, G. 2004. *Opegrapha suecica*, a new lichen from Europe. *Symb. Bot. Upsal.* 34(1): 453-454.
- Thor, G. 2008. SLF:s exkursion till Huvudskär i Stockholms skärgård 1997. *Lavbulletinen* 2008(1): 28-36.
- Thor, G. 2009. *Micarea viridileprosa* och *M. botryoides*. *Lavbulletinen* 2009(2): 60-64.
- Thor, G. 2015. Några intressanta lavar från Venjan, Dalarna. *Lavbulletinen* 2014(2): 60-63.
- Thor, G., Arup, U., Hermansson, J. & Westberg, M. 2019. Eftersök av falsk guldskvilav *Psora testacea* på fastlandet och lavar på Fridö, Södermanland. *Lavbulletinen* 2018(2): 66-77.
- Thorn, R.G., Malloch, D.W. & Ginns, J. 1998. *Leucogyrophana lichenicola* sp.nov., and a comparison with basidiomes and cultures of the similar *Leucogyrophana romellii*. *Canad. J. Bot.* 76: 686-693.
- Thüs, H. & Nascimbene, J. 2008. Contributions toward a new taxonomy of Central European freshwater species of the lichen genus *Thelidium* (Verrucariales, Ascomycota). *Lichenologist* 40: 499-521.
- Thüs, H. 2002. Taxonomie, Verbreitung und Ökologie silicoler Süßwasserflechten im ausseralpinen Mitteleuropa. *Biblioth. Lichenol.* 83: 1-214.
- Thüs, H., Olang, A., Gueidan, C., Pykälä, J., Ruberti, C., Lo Schiavo, F. & Nascimbene, J. 2015. Revision of the *Verrucaria elaeomelaena* species complex and morphologically similar freshwater lichens (Verrucariaceae, Ascomycota). *Phytotaxa* 197: 161-185.
- Tibell, L. & Constantinescu, O. 1991. *Catenomycopsis rosea* gen. & sp. nov. (Hyphomycetes), anamorph of *Chaenothecopsis haematopus*. *Mycol. Res.* 95: 556-560.
- Tibell, L. & Hultengren, S. 2015. Lavar på Gotska Sandön. *Svensk Bot. Tidskr.* 109: 158-187.
- Tibell, L. & Knutsson, T. 2016. *Calicium episcalaris* (Caliciaceae), a new lichen species from Sweden. *Symb. Bot. Upsal.* 38: 49-52.
- Tibell, L. & Ryman, K. 1995. Revision of species of *Chaenothecopsis* with short stalks. *Nova Hedwigia* 60: 199-218.
- Tibell, S. & Tibell, L. 2015. Two new species of *Atla* (Verrucariaceae). *Lichenologist* 47: 93-98.
- Tibell, L. 1969. The genus *Cyphelium* in northern Europe. *Svensk Bot. Tidskr.* 63: 465-485.
- Tibell, L. 1971. The genus *Cyphelium* in Europe. *Svensk Bot. Tidskr.* 65: 138-164.
- Tibell, L. 1973. Notes on Caliciales. II. Some species from the Nordic countries. *Svensk Bot. Tidskr.* 67: 445-455.
- Tibell, L. 1975. The Caliciales of boreal North America. *Symb. Bot. Upsal.* 21(2): 1-128.
- Tibell, L. 1976a. The genus *Thelomma*. *Bot. Notiser* 129: 221-249.
- Tibell, L. 1976b. *Calicium denigratum* (Vain.) L. *Bot. Notiser* 129: 131-136.
- Tibell, L. 1977. Lavordningen Caliciales i Sverige. Inledning och släktet *Calicium*. *Svensk Bot. Tidskr.* 71: 239-259.
- Tibell, L. 1978a. Comments on Caliciales exsiccatae I. *Lichenologist* 10: 171-178.

- Tibell, L. 1978b. The genus *Microcalicium*. Bot. Notiser 131: 229-246.
- Tibell, L. 1978c. *Caliciales exsiccatae*, fasc. 1 (Nos 1-25). *Publs Herb. Univ. Uppsala*. 1: 1-13.
- Tibell, L. 1978d. Lavordningen *Caliciales* i Sverige. Släktena *Chaenotheca* och *Coniocybe*. *Svensk Bot. Tidskr.* 72: 171-188.
- Tibell, L. 1979. *Caliciales exsiccatae*, fasc. 2 (Nos 26-50). *Publs Herb. Univ. Uppsala*. 4: 1-9.
- Tibell, L. 1980a. The lichen genus *Chaenotheca* in the Northern Hemisphere. *Symb. Bot. Upsal.* 23(1): 1-65.
- Tibell, L. 1980b. Lavordningen *Caliciales* i Sverige. Släktena *Cyphelium*, *Microcalicium*, *Sphaerophorus*, *Sphinctrina*, *Thelomma* och *Tholurna*. *Svensk Bot. Tidskr.* 74: 55-69.
- Tibell, L. 1981a. Formation of spore ornamentation in two *Sphaerophorus*. *Nord. J. Bot.* 1: 333-340.
- Tibell, L. 1981b. Comments on *Caliciales exsiccatae* II. *Lichenologist* 13: 51-64.
- Tibell, L. 1984a. A reappraisal of the taxonomy of *Caliciales*. *Beih. Nova Hedwigia* 79: 597-713.
- Tibell, L. 1984b. *Caliciales exsiccatae*, fasc. 4 (Nos 76-100). *Publs Herb. Univ. Uppsala*. 12: 1-9.
- Tibell, L. 1987a. Australian *Caliciales*. *Symb. Bot. Upsal.* 27(1): 1-279.
- Tibell, L. 1987b. Typification of names of infrageneric taxa described by Acharius and placed by him in *Caliciales*. *Ann. Bot. Fennici* 24: 257-280.
- Tibell, L. 1991. The *Asterophoma* anamorph of *Chaenothecopsis savonica* and its hyphomycetous synanamorph. *Canad. J. Bot.* 69: 2427-2433.
- Tibell, L. 1996a. *Caliciales exsiccatae*, fasc. 10. *Thunbergia* 23: 1-9.
- Tibell, L. 1996b. *Phaeocalicium* (Mycocaliciaceae) in Northern Europe. *Ann. Bot. Fennici* 33: 205-221.
- Tibell, L. 1999a. Calicioid lichens and fungi. In: Ahti et al. (eds), *Nordic Lichen Flora* 1: 20-94.
- Tibell, L. 1999b. Two new species of *Calicium* from Europe. *Mycotaxon* 70: 431-443.
- Tibell, L. 2002. *Cybebe gracilentia* in an ITS/5.8S rDNA based phylogeny belongs to *Chaenotheca* (Coniocybaceae). *Lichenologist* 33: 519-525.
- Tibell, L. 2007. *Cyphelium lucidum* new to Sweden. *Graphis Scripta* 19: 48-52.
- Timdal, E. & Holtan-Hartwig, J. 1988. A preliminary key to *Rhizocarpon* in Scandinavia. *Graphis Scripta* 2: 41-54.
- Timdal, E. & Tønsberg, T. 2006. *Psoroma paleaceum* comb. nov. the only hairy *Psoroma* in northern Europe. *Graphis Scripta* 18: 54-57.
- Timdal, E. & Tønsberg, T. 2012. *Cladonia straminea*, the correct name for *C. metacorallifera*. *Graphis Scripta* 24: 33-35.
- Timdal, E. & Tønsberg, T. 2021. *Lepraria lobificans* (syn. *L. santosii*) and *L. sylvicola* new to northern Europe from Norway *Graphis Scripta* 33: 50-58.
- Timdal, E. & Zhurbenko, M.P. 1995. The distribution of *Toninia sculpturata* in Eurasia. *Graphis Scripta* 7: 13-16.
- Timdal, E. 1982. Bidrag til Norges lavflora. *Blyttia* 40: 179-185.
- Timdal, E. 1983. The genus *Squamarina* in Scandinavia. *Lichenologist* 15: 169-179.
- Timdal, E. 1984a. The genus *Hypocenomyce* (Lecanorales, Lecideaceae), with special emphasis on the Norwegian and Swedish species. *Nord. J. Bot.* 4: 83-108.
- Timdal, E. 1984b. The delimitation of *Psora* (Lecideaceae) and related genera, with notes on some species. *Nord. J. Bot.* 4: 525-540.
- Timdal, E. 1984c. *Acarospora intricata* and *A. wahlenbergii* (Acarosporaceae) in Scandinavia. *Nord. J. Bot.* 4: 541-543.

- Timdal, E. 1986. *Rhizocarpon santessonii*, a new parasitic lichen from Norway. *Lichenologist* 18: 317-320.
- Timdal, E. 1987a. Lichens from Northern Norway. *Graphis Scripta* 1: 58-64.
- Timdal, E. 1987b. A chemical difference between *Lecanora macrocyclos* and *L. muralis*. *Graphis Scripta* 1: 77-78.
- Timdal, E. 1987c. A revision of *Psora* in North America. *Bryologist* 89: 253-275.
- Timdal, E. 1988. A crustose species of *Pilophorus*: *P. pallidus* (Th.Fr.) Timdal. *Lichenologist* 20: 93-96.
- Timdal, E. 1989. The production of rhodocladonic acid in *Cladonia bacilliformis* and *C. norvegica* triggered by the presence of lichenicolous mite. *Graphis Scripta* 2: 125-127.
- Timdal, E. 1991. A monograph of the genus *Toninia*. *Opera Bot.* 110: 1-137.
- Timdal, E. 1992. The distribution of *Mycobilimia fissuriseda*. *Graphis Scripta* 3: 115-117.
- Timdal, E. 1993. *Miriquidica ventosa* comb. nov., a rediscovered lichen. *Bryologist* 96: 616-618.
- Timdal, E. 2001. *Lecanora carpoides*, a new lichenicolous lichen from Norway. *Graphis Scripta* 12: 33-36.
- Timdal, E. 2002. *Stereocaulon cumulatum* comb. nov., another crustose species in the genus. *Lichenologist* 34: 7-11.
- Timdal, E. 2004. *Dactylina ramulosa* new to Norway. *Graphis Scripta* 16: 33-36.
- Timdal, E. 2007. *Romjularia*. In: T.H. Nash et al. (eds), *Lichen flora of the Greater Sonoran Desert Region* 3: 287-289.
- Timdal, E., Westberg, M., Haugan, R., Hofton, T.H., Holien, H., Speed, J., Tønsberg, T. & Bendiksby, M. 2020. Integrative taxonomy reveals a new species, *Nephroma orvoi*, in the *N. parile* species complex (lichenized Ascomycota). *Graphis Scripta* 32: 70-85.
- Torrente, P. & Egea, J.M. 1989. La familia *Opegraphaceae* en el area Mediterranea de la Peninsula Ibérica y Norte de Africa. *Biblioth. Lichenol.* 32: 1-282.
- Trass, H. 1970. *Papers on botany*. Tartu, 406 pp.
- Triebel, D. & Rambold, G. 1988. *Cecidonia* und *Phacopsis* (Lecanorales): zwei lichenicole Pilzgattungen mit cecidogenen Arten. *Nova Hedwigia* 47: 279-309.
- Triebel, D. 1989. Lecideicole Ascomyceten. *Biblioth. Lichenol.* 35: 1-278.
- Triebel, D., Rambold, G. & Nash, T.H. 1991. On lichenicolous fungi from continental North America. *Mycotaxon* 042: 263-296.
- Triebel, D., Rambold, G. & Elix, J.A. 1995. A conspectus of the genus *Phacopsis* (Lecanorales). *Bryologist* 98: 71-83.
- Triebel, D., Wedin, M. & Rambold, G. 1997. The genus *Scutula* (Lecanorales): species on the *Peltigera canina* and *P. horizontalis*. *Symb. Bot. Upsal.* 32(1): 323-337.
- Trinkaus, U. & Mayrhofer, H. 2000. Revision der *Buellia epigaea*-Gruppe (Physciaceae) 1. Die Arten der Nordhemisphaere. *Nova Hedwigia* 71: 271-314.
- Tuovila, H., Larsson, P. & Rikkinen, J. 2011. Three resinicolous North American species of *Mycocaliciales* in Europe with a re-evaluation of *Chaenothecopsis oregana* Rikkinen. *Karstenia* 51: 37-59.
- Tønsberg, T. & Ahti, T. 1980. *Cladonia umbricola*, a new lichen species from NW Europe and western North America. *Norw. J. Bot.* 27: 307-309.
- Tønsberg, T. & Andersen, H.L. 2019. *Miriquidica majae*, a new lichen species from oldgrowth *Picea abies* forests in central Norway. *Graphis Scripta* 31: 14-22.
- Tønsberg, T. & Holien, H. 1984. *Cladonia* (sect. *Cocciferæ*) *norvegica*, a new lichen species. *Nord. J. Bot.* 4: 79-82.

- Tønsberg, T. & Holtan-Hartwig, J. 1983. Phycotype pairs in *Nephroma*, *Peltigera* and *Lobaria* in Norway. *Nord. J. Bot.* 3: 681-688.
- Tønsberg, T. & Høiland, K. 1978. *Cladonia glauca*, ny for Norge [*Cladonia glauca* new to Norway]. *Blyttia* 36: 163-165.
- Tønsberg, T. & Johnsen, J.I. 2008. *Fuscidea lightfootii* new to Fennoscandia. *Graphis Scripta* 20: 31-32.
- Tønsberg, T. & Johnsen, J.I. 2009. *Micarea stipitata* and *Myochroidea leprosula* new to Fennoscandia. *Graphis Scripta* 21: 49-52.
- Tønsberg, T. & Johnsen, J. 2011. *Micarea viridileprosa* new to Norway. *Graphis Scripta* 23: 30.
- Tønsberg, T. & Jørgensen, P.M. 1997. On the alleged apothecia of *Leproloma membranaceum*. *Lichenologist* 29: 597-599.
- Tønsberg, T. & Zhurbenko, M.P. 2006. *Lepraria gelida*, a new species from the Arctic. *Graphis Scripta* 18: 64.
- Tønsberg, T. & Øvstedal, D.O. 1982. Noen interessante lavfunn - III (Some interesting lichen finds from Norway - III). *Blyttia* 40: 59-83.
- Tønsberg, T. & Øvstedal, D.O. 1995. *Cladonia peziziformis* new to Norway from burnt *Calluna* heath. *Graphis Scripta* 7: 11-12.
- Tønsberg, T. 1977. The chemical strains in *Stereocaulon rivulorum* and their distribution. *Norw. J. Bot.* 24: 231-234.
- Tønsberg, T. 1978. *Cladonia alpina* new to Europe. *Norw. J. Bot.* 25: 243-246.
- Tønsberg, T. 1979. Noen interessante lavfunn. Some interesting lichen finds, mainly from Norway]. *Blyttia* 37: 127-131.
- Tønsberg, T. 1980. Noen interessante lavfunn - II. Some interesting lichen finds from Norway - II. *Blyttia* 38: 159-163.
- Tønsberg, T. 1983. Bidrag til lavfloraen i Trøndelag og Nord-Norge. *Blyttia* 41: 22-23.
- Tønsberg, T. 1987. *Lecanora subaurea* new to Norway. *Graphis Scripta* 1: 51.
- Tønsberg, T. 1988a. *Lecanactis homalotropia* and *Pertusaria multipuncta* new to Norway. *Graphis Scripta* 2: 10-11.
- Tønsberg, T. 1988b. *Gyalideopsis alnicola* new to Europe. *Graphis Scripta* 2: 38-39.
- Tønsberg, T. 1990a. Floristic notes on Norwegian *Veizdaea* species. *Graphis Scripta* 3: 26.
- Tønsberg, T. 1990b. The green algal phototype of *Sticta canariensis* found in Norway. *Graphis Scripta* 3: 27.
- Tønsberg, T. 1990c. *Japewia subaurifera*, a new lichen genus and species from North-west Europe and western North America. *Lichenologist* 22: 205-212.
- Tønsberg, T. 1992a. *Fellhanera* new to Norway. *Graphis Scripta* 3: 118-119.
- Tønsberg, T. 1992b. The sorediate and isidiate, corticolous crustose lichens in Norway. *Sommerfeltia* 14: 1-331.
- Tønsberg, T. 1993. *Collema leptaleum* new to Europe. *Graphis Scripta* 5: 22-23.
- Tønsberg, T. 1994a. The lichen genus *Solenopsora* and the species *S. vulturienensis* new to Scandinavia. *Graphis Scripta* 6: 15-16.
- Tønsberg, T. 1994b. *Chrysothrix flavovirens* sp. nov. - the sorediate counterpart of *C. chrysophthalma*. *Graphis Scripta* 6: 31-33.
- Tønsberg, T. 1995. *Cladonia incrassata* new to Norway and the problem of *C. anitae* in Europe. *Graphis Scripta* 7: 61-65.
- Tønsberg, T. 1997. Lichenes isidiosi et sorediosi crustacei exsiccati. Bergen.
- Tønsberg, T. 1998. Additions to the lichen flora of Norway and Sweden. *Graphis Scripta* 9: 27-31.

- Tønsberg, T. 2002. Notes on non-corticolous *Lepraria* s. lat in Norway. *Graphis Scripta* 13: 45-51.
- Tønsberg, T. 2011. *Pertusaria mecroryae* new to Europe. *Graphis Scripta* 23: 27-29.
- Tønsberg, T. 2016. *Laven Fellhanera duplex* ny for Norge og Fennoskandia. *Blyttia* 74: 269-270.
- Tønsberg, T. 2018. *Jamesiella scotica* new to Fennoscandia. *Graphis Scripta* 30: 24-29.
- Tønsberg, T., Culberson, C.F. & Johnson, A. 1995. 4-O-methylcryptochloroaphaeic acid found in *Bacidia*. *Graphis Scripta* 7: 39-41.
- Tønsberg, T., Gauslaa, Y., Haugan, R., Holien, H. & Timdal, E. 1996. The threatened macrolichens of Norway - 1995. *Sommerfeltia* 23: 1-258.
- Ullrich, H. & Poelt, J. 1968. *Lecanora picea* und *Lecidea praeruptarum*, zwei verkannte und Übersehene Arten, auf den Quarziten des Harzes. *Herzogia* 1: 73-77.
- Wade, A.E. 1965. The genus *Caloplaca* in the British Isles. *Lichenologist* 3: 1-28.
- Vainio, E. 1881. *Adjumenta ad lichenographiam Lapponiae fennicae atque Fenniae borealis I.* *Medd. Soc. Fauna Fl. Fenn.* 10: 77-182.
- Vainio, E. 1883. *Adjumenta ad lichenographiam Lapponiae fennicae atque Fenniae borealis II.* *Medd. Soc. Fauna Fl. Fenn.* 10: 1-230.
- Vainio, E. 1909. *Lichenes in vicinis stationes hibernae expeditionis Vegae prope pagum Pitlekai in Sibiria Septentrionalis.* *Arkiv Bot.* 8(4): 1-175.
- Vainio, E. 1921. *Lichenographia fennica I.* *Acta Soc. Fauna Fl. Fenn.* 49(2): 1-274.
- Vainio, E. 1922. *Lichenographia fennica II.* *Acta Soc. Fauna Fl. Fenn.* 53(1): 1-340.
- Vainio, E. 1929. *Duae species Placodio gilvo (Hoffm.) affinis.* *Ann. Soc. zool.-bot. Fenn. Vanamo* 9: 320-321.
- Vainio, E. 1934. *Lichenographia fennica IV.* *Acta Soc. Fauna Fl. Fenn.* 57(2): 1-506.
- Wall, S. & Nicklasson, A. 2010. *Rhizocarpon furfurosum* funnen vid Fredriksbergs gruva i Småland. *Lavbulletinen* 2010(3): 144-150.
- van den Boom, P.P.G. & Brand, A.M. 2005. *Lecania fructigena* Zahlbr., a coastal saxicolous lichen, new for Europe, with notes on related species. *Lichenologist* 37: 277-283.
- van den Boom, P.P.G. & Brand, A.M. 2008. Some new *Lecanora* species from western and central Europe, belonging to the *Lecanora saligna* group, with notes on related species. *Lichenologist* 40: 465-497.
- van den Boom, P.P.G. & Elix, J.A. 2005. Notes on *Halecania* species, with descriptions of two new species from Asia. *Lichenologist* 37: 237-246.
- van den Boom, P.P.G. & Vězda, A. 2000. *Gyalideopsis helvetica*, a new lichen species from Central Europe. *Österr. Z. Pilzk.* 9: 27-30.
- van den Boom, P.P.G. 1992a. *Protothelenella xylina* new to Finland. *Graphis Scripta* 4: 33-34.
- van den Boom, P.P.G. 1992b. The saxicolous species of the lichen genus *Lecania* in the Netherlands, Bergum and Luxemburg. *Nova Hedwigia* 54: 229-254.
- van der Aa, H.A. 1989. *Polycoccum peltigerae* and *Didymosphaeria arxii* sp. nov. and their anamorphs. *Studies in Mycology* 31: 15-22.
- van Herk, K. & Aptroot, A. 2000. The sorediate *Punctelia* species with lecanoric acid in Europe. *Lichenologist* 32: 233-246.
- van Herk, C.M. & Aptroot, A. 2003. A new status for the western European taxa of the *Cladonia cervicornis* group. *Biblioth. Lichenol.* 86: 193-203.
- Wedin, M. & Hafellner, J. 1998. Lichenicolous species of *Arthonia* on *Lobariaceae* with notes on excluded taxa. *Lichenologist* 30: 59-91.
- Wedin, M. 1987. *Cladonia macroceras*, *Cl. rangiformis* och *Cl. furcata* ssp. *rangiformis* på Ölands Stora alvar. 10-poängsarbete, *Syst. Bot. Uppsala universitet*, 8 pp.

- Wedin, M. 1993. Concentric bodies in conidia of *Monodictys anapytichiae*. *Lichenologist* 25: 203-206.
- Wedin, M. 1995. *Bunodophoron melanocarpum*, comb. nov. *Mycotaxon* 55: 383-384.
- Wedin, M., Döring, H., Könberg, K. & Gilenstam, G. 2005. Generic delimitations in the family Stictidaceae (Ostropales, Ascomycota): the Stictis–Conotrema problem. *Lichenologist* 37: 67-75.
- Wedin, M., Döring, H. & Gilenstam, G. 2006. Stictis s. lat. (Ostropales) in northern Scandinavia, with a key and notes on morphological variation in relation to lifestyle. *Mycol. Res.* 110: 773-789.
- Wedin, M., Ihlen, P.G. & Triebel, D. 2007. *Scutula tuberculosa*, the correct name of the *Scutula* growing on *Solorina* spp., with a key to *Scutula* s. str. in the Northern Hemisphere. *Lichenologist* 39: 329-333.
- Velmala, S. & Myllys, L. 2011. *Alectoria*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 14-16.
- Velmala, S., Myllys, L., Halonen, P., Goward, T. & Ahti, T. 2009. Molecular data show that *Bryoria fremontii* and *B. tortuosa* (Parmeliaceae) are conspecific. *Lichenologist* 41: 231-242.
- Velmala, S., Myllys, L., Goward, T., Holien, H. & Halonen, P. 2014. Taxonomy of *Bryoria* section *Implexae* (Parmeliaceae, Lecanoromycetes) in North America and Europe, based on chemical, morphological and molecular data. *Ann. Bot. Fennici* 51: 345-371.
- Verseghy, K. 1962. Die Gattung *Ochrolechia*. *Beih. Nova Hedwigia* 001: 1-146.
- Westberg, M. & Arup, U. 2010. *Candelaria concolor* - a rare lichen in the Nordic countries. *Graphis Scripta* 22: 38-42.
- Westberg, M. & Arup, U. 2011. *Candelaria pacifica* sp. nova (Ascomycota, Candelariales) and the identity of *Candelaria vulgaris*. *Biblioth. Lichenol.* 106: 353-364.
- Westberg, M. & Arup, U. 2016. SLF:s vårexkursion till Omberg, 25-26 april 2015. *Lavbulletinen* 2015 (2): 55-61.
- Westberg, M. & Berglund, T. 2009. Dvärg-placodlav - återfunnen i Sverige efter 139 år. *Fauna & Flora* 104(3): 28-31.
- Westberg, M. & Fröberg, L. 2004. Nyfynd av *Heppia lutosa* på Öland. *Graphis Scripta* 15: 14-16.
- Westberg, M. & Fröberg, L. 2007. Några hotade arter på Ölands kalkstensavsatser. *Lavbulletinen* 2007(1): 28-33.
- Westberg, M. & Svensson, M. 2012. Additions to the lichen flora of Fennoscandia II. *Graphis Scripta* 24: 1-5.
- Westberg, M. & Thell, A. 2007. Skånsk sköldlav *Punctelia reddenda* - ett bekymmer färre. *Lavbulletinen* 2007(1): 14-15.
- Westberg, M. & Thell, A. 2011a. *Allantoparmelia*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 16-17.
- Westberg, M. & Thell, A. 2011b. *Melanelia*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 67-72, 140.
- Westberg, M. & Thell, A. 2011c. *Melanelixia*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 72-76.
- Westberg, M. & Thell, A. 2011d. *Melanohalea*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 76-81.
- Westberg, M. & Thell, A. 2011e. *Menegazzia*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 81-83, 140.
- Westberg, M. & Thell, A. 2011f. *Pleurosticta*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 98-99, 140.
- Westberg, M. & Thor, G. 2014. Lavfloran på Stora Bornö - SLF:s höstexkursion 2013. *Lavbulletinen* 2014(1): 19-33.

- Westberg, M. & von Hirschheydt, G. 2020. Kuddgelélav återfunnen i Jämtland efter 107 år. *Lavbulletinen* 2020(2): 60-62.
- Westberg, M. 2004. Finns *Menegazzia subsimilis* kvar i Sverige. *Lavbulletinen* 2004(1): 19-21.
- Westberg, M. 2005. The lichen genus *Candelariella* in Western North America. Lund University, 132 pp.
- Westberg, M. 2006. *Squamarina scopulorum* new to Sweden. *Graphis Scripta* 18: 52-53.
- Westberg, M. 2007. *Candelariella* (Candelariaceae) in western United States and northern Mexico: the 8-spored, lecanorine species. *Bryologist* 110: 391-419.
- Westberg, M. 2012. Grön knagglav *Toninia physaroides* i Sverige. *Lavbulletinen* 2012(2): 50-53.
- Westberg, M., Kärnefelt, I. & Thell, A. 2004. *Melanelia agnata*, an overlooked species, new to Sweden. *Graphis Scripta* 16: 23-27.
- Westberg, M., Fröberg, L. & Arup, U. (eds) 2005. Intressanta lavar och lavparasiter. *Lavbulletinen* 2005(2): 72-73.
- Westberg, M., Fröberg, L. & Arup, U. (eds) 2006. Intressanta fynd av lavar och lavparasiter i Sverige. *Lavbulletinen* 2006(2): 78-79.
- Westberg, M., Fröberg, L. & Arup, U. (eds) 2007. Intressanta fynd av lavar och lavparasiter. *Lavbulletinen* 2007(1): 34-35.
- Westberg, M., Fröberg, L. & Arup, U. (eds) 2008a. Fyndrapporter. *Lavbulletinen* 2008(2): 82.
- Westberg, M., Millanes, A.M. & Wedin, M. 2008b. *Tremella candelariellae* - en ny lavparasiterande basidsvamp för Sverige. *Lavbulletinen* 2008(2): 74-77.
- Westberg, M., Arup, U. & Fröberg, L. 2008c. Några rödlistade kalkstenslavar på Gotland. *Lavbulletinen* 2008(2): 69-73.
- Westberg, M., Millanes, A.M. & Wedin, M. 2009. *Squamarina degelii* discovered in Sweden. *Graphis Scripta* 21: 53-56.
- Westberg, M., Ahti, T. & Thell, A. 2011a. *Hypogymnia*. In: A. Thell & R. Moberg (eds) *Nordic Lichen Flora* 4: 56-62, 139-140.
- Westberg, M., Crewe, A.T., Purvis, O.W. & Wedin, M. 2011b. *Silobia*, a new genus for the *Acarospora smaragdula* complex (Acarosporales) and a revision of the group in Sweden. *Lichenologist* 43: 7-25.
- Westberg, M., Morse, C.A. & Wedin, M. 2011c. Two new species of *Candelariella* and a key to the *Candelariales* in North America. *Bryologist* 114: 325-334.
- Westberg, M., Svensson, M., Arup, U., Henriksson, J. & Persson, J. 2011d. Västlig kolvlav *Pilophorus strumaticus* återfunnen i Sverige. *Lavbulletinen* 2011(1): 17-20.
- Westberg, M., Timdal, E., Asplund, J., Bendiksby, M., Haugan, R., Jonsson, F., Larsson, P., Odolvik, G., Wedin, M. & Millanes, A.M. 2015a. New records of lichenized and lichenicolous fungi in Scandinavia. *MycKeys* 11: 33-61.
- Westberg, M., Prieto, M. & Košuthová, A. 2015b. Nya lokaler för några jordlavar. *Lavbulletinen* 2015(1): 27-33.
- Westberg, M., Arup, U., Berglund, T., Ekman, S., Nordin, A., Prieto, M. & Svensson, M. 2016. New and interesting records of lichens from Pältsan (Mt Bealccan) in northernmost Sweden. *Graphis Scripta* 28: 22-32.
- Westberg, M., von Hirschheydt, G. & Gustavsson, N. 2019. SLF:s höstexkursion 2018 till Gästrikland. *Lavbulletinen* 2019(1): 14-22.
- Westman, L. 1973. Notes on the taxonomy and ecology of an arctic lichen: *Lecanora symmicta* var. *sorediosa*. *Lichenologist* 5: 457-460.
- Wetmore, C.M. 1960. The lichen genus *Nephroma* in North and Middle America. *Publs. Mus., Michigan State Univ., Biol. Ser.* 1(11): 369-452.
- Wetmore, C.M. 1968. Lichens of the Black Hills. *Publs. Mus., Michigan State Univ., Biol. Ser.* 3(4): 212-464.

- Wetmore, C.M. 1971. The lichen family Heppiaceae in North America. *Ann. Missouri Bot. Garden* 57: 158-209.
- Wetmore, C.M. 1994. The lichen genus *Caloplaca* with brown or black apothecia, key, n. sp., North America, Central America. *Mycologia* 86: 813-838.
- Wetmore, C.M. 1996. The *Caloplaca sideritis* group in North and Central America. *Bryologist* 99: 292-314.
- Wetmore, C.M. 2001. The *Caloplaca citrina* group in North and Central America. *Bryologist* 104: 1-11.
- Vevle, O. 1975. *Stereocaulon coniphyllum* in Norway. *Norw. J. Bot.* 22: 133-137.
- Vězda, A. & Pisut, I. 1984. Zwei neue Arten der Flechtengattung *Absconditella* (lichenisierte Stictidaceae, Ostropales) in der Tschechoslowakei. *Nova Hedwigia* 40: 341-346.
- Vězda, A. & Poelt, J. 1974. Die Gattungen *Dimerella* und *Pachyphiale*. *Khumbu Himal* 6(2): 127-132.
- Vězda, A. & Poelt, J. 1991. Die Flechtengattung *Gyalidea*. Eine Übersicht mit Bestimmungsschlüssel. *Nova Hedwigia* 53: 99-113.
- Vězda, A. & Vivant, J. 1975. *Absconditella pauxilla*, un nouveau lichen des Pyrénées-Atlantiques. *Folia Geobot. Phytotax.* 10: 205-208.
- Vězda, A. 1958. Československe druhy rodu *Gyalecta* a *Pachyphiale* s klicem a prehledem evropských druhů. *Acta Univ. Agri. Sylvi. Brno* 1: 21-56 (sep. 1-36).
- Vězda, A. 1961a. *Lichenes novi vel rariores Sudetorum occidentalium*. *Preslia* 33: 365-368.
- Vězda, A. 1961b. Der Formenkreis der *Arthopyrenia conoidea* (Fr.) Zahlbr. in der Tschechoslowakei. *Acta Mus. Silesiae, ser. A* 10: 131-138.
- Vězda, A. 1965a. Flechtensystematischen studien I. Die Gattung *Petractis* Fr. *Preslia* 37: 127-143.
- Vězda, A. 1965b. Flechtensystematischen studien II. *Absconditella*, eine neue Flechtengattung. *Preslia* 37: 237-245.
- Vězda, A. 1966a. Flechtensystematischen studien III. Die Gattungen *Ramonia* Stiz. und *Gloeolecta* Lett. *Folia Geobot. Phytotax.* 1: 154-175.
- Vězda, A. 1966b. Flechtensystematischen studien IV. Die Gattung *Gyalidea* Lett. *Folia Geobot. Phytotax.* 1: 311-340.
- Vězda, A. 1966c. *Lichenes selecti exsiccati*. Fasc. 20 (no. 475-500): 1-7. *Inst. Bot. Acad. Scient. Cechoslovaciae*.
- Vězda, A. 1967a. Flechtensystematische Studien VI. Die Gattung *Sagiolechia* Massal. *Folia Geobot. Phytotax.* 2: 383-396.
- Vězda, A. 1967b. Flechtensystematische Studien V. Die Gattung *Ramonia* Stiz. Zusätze. *Folia Geobot. Phytotax.* 2: 311-317.
- Vězda, A. 1968. Taxonomische Revision der Gattung *Thelopsis* Nyl. *Folia Geobot. Phytotax.* 3: 363-406.
- Vězda, A. 1969a. *Leucocarpia* gen. nov., eine neue Gattung der Flechtenfamilie *Verrucariaceae*. *Herzogia* 1: 187-194.
- Vězda, A. 1969b. Beiträge zur Kenntnis der flechtenbewohnenden Pilze in der Tschechoslowakei. II. Zwei neue Arten: *Opegrapha rinodinae* sp. nov. und *Polycoccum galligenum* sp. nov. *Ceska Mykol.* 23: 104-109.
- Vězda, A. 1969c. Neue Taxa und Kombinationen in der Familie *Gyalectaceae* (Lichenisierte Fungi). *Folia Geobot. Phytotax.* 4: 443-446.
- Vězda, A. 1970a. Beiträge zur Kenntnis der flechtenbewohnenden Pilze in der Tschechoslowakei. III. *Ceska Mykol.* 24: 220-230.
- Vězda, A. 1970b. Neue und wenig bekannte Flechten in der Tschechoslowakei. I. *Folia Geobot. Phytotax.* 5: 307-337.

- Vězda, A. 1972. Flechtensystematischen studien VII. Gyalideopsis, eine neue Flechtengattung. Folia Geobot. Phytotax. 7: 203-215.
- Vězda, A. 1974. Lichenes selecti exsiccati. Fasc. 50 (no. 1226-1250): 1-8. Inst. Bot. Acad. Scient. Cechoslovacaec.
- Vězda, A. 1978a. Neue oder wenig bekannte Flechten in der Tschechoslowakei. II. Folia Geobot. Phytotax. 13: 397-420.
- Vězda, A. 1978b. Lichenes selecti exsiccati. Fasc. 62 (no. 1526-1550): 1-7. Inst. Bot. Acad. Scient. Cechoslovacaec.
- Vězda, A. 1979. Flechtensystematische Studien XI. Beiträge zur Kenntnis der Familie Asterothyriaceae. Folia Geobot. Phytotax. 14: 43-94.
- Vězda, A. 1986. Neue Gattungen der Familie Lecideaceae s. lat. (Lichense). Folia Geobot. Phytotax. 21: 199-219.
- Vězda, A. 1990. Bacidina genus novum familiae Lecideaceae s. lat. Folia Geobot. Phytotax. 25: 431-432.
- Vězda, A., Wirth, V. 1976. Zur Taxonomie der Flechtengattung *Micarea* Fr. em. Hedl. Folia Geobot. Phytotax. 11: 93-102.
- Vila, J. 2002. *Omphalina peltigerina* (Peck) P. Collin, un interessant fong liquenícola de catalunya. Revista Catalana de Micologia, vol. 24: 211-213.
- Vinuesa, M. de los A., Sanches-Puelles, J.M. & Tibell, L. 2001. Intraspecific variation in *Mycocalicium subtile* (Mycocaliciaceae) elucidated by morphology and the sequences of the ITS1-5.8S-ITS2 region of rDNA. Mycol. Res. 105: 323-330.
- Wirth, V. & Llimona, X. 1975. Das *Pertusarietum rupicolae* n. nova, eine Silikatflechten-Gesellschaft im Mittelmeerraum, mit Bemerkungen zur Taxonomie des *Pertusaria pseudocorallina* - Formenkreis. Herzogia 3: 335-346.
- Wirth, V. 1970. Studien zu den silicolen *Opegrapha*-Arten *O. horistica*, *O. zonata* und *O. gyrocarpa*. Herzogia 1: 469-475.
- Wirth, V. 1972. Die Silikatflechten-Gemeinschaften im ausseralpinen Zentraleuropa. Diss. Bot. 17: 1-306.
- Wirth, V. 1973. Über einige für Deutschland neue Flechten. Nova Hedwigia 24: 181-192.
- Wirth, V. 1987. Die Flechten Baden-Württembergs. Verlag Eugen Ulmer, Stuttgart.
- Wirth, V. 1990. Neufunde von Flechten in Baden-Württemberg und anderen Regionen Deutschlands. Herzogia 8: 305-334.
- Wirth, V. 1993. Trendwende bei der Ausbreitung der anthropogen geförderten Flechte *Lecanora conizaeoides*? Phytocoenologia 23: 625-636.
- Wirth, V. 1995. Die Flechten Baden-Württembergs, Ed. 2, Teil 1-2. Verlag Eugen Ulmer, 1006 pp.
- Vitikainen, O. 1985a. Three new species of *Peltigera* (lichenized Ascomycetes). Ann. Bot. Fennici 22: 291-298.
- Vitikainen, O. 1985b. *Paljakanpaisukarve* (*Hypogymnia oroarctica*), Suomelle uusi jäkäälälaji. Lutukka 1: 53-54.
- Vitikainen, O. 1987. *Lecanora salicicola* new to Norway. Graphis Scripta 1: 54-55.
- Vitikainen, O. 1989. Additions to the lichen flora of Finland. Graphis Scripta 2: 170-171.
- Vitikainen, O. 1994. Taxonomic revision of *Peltigera* (lichenized Ascomycotina) in Europe. Acta Bot. Fenn. 152: 1-96.
- Vitikainen, O. 2007a. Nephromaceae. In: Ahti et al. (eds), Nordic Lichen Flora 3: 91-95.
- Vitikainen, O. 2007b. Peltigeraceae. In: Ahti et al. (eds), Nordic Lichen Flora 3: 113-131, 146.
- Vitikainen, O., Ahti, T., Kuusinen, M., Lommi, S. & Ulvinen, T. 1997. Checklist of lichens and allied fungi of Finland. Norrlinna 6: 1-123.
- Wittmann, H. & Türk, R. 1987. Zur Flechtenflora Oberösterreichs – Neue und Bemerkenswerte Flechten und Flechtenparasiten. Linzer Biol. Beitr. 19: 389-399.

- von Brackel, W. & Berger, F. 2010. Gall-inducing species of *Polycoccum* on the lichen genus *Polycoccum*. *Herzogia* 23: 195-204.
- von Brackel, W. 2014. Kommentierter Katalog der flechtenbewohnenden Pilze Bayerns. *Biblioth. Lichenol.* 109: 1-476.
- von Hirschheydt, G., Ekman, S. & Westberg, M. 2021. Unik lavflora i Fiby urskog. *Fauna & Flora* 116(1): 2-18.
- von Keissler, K. 1923. Einige interessante Flechtenparasiten aus den Herbar Upsala. *Arkiv Bot.* 18(16): 1-24.
- von Keissler, K. 1930. Die Flechtenparasiten. *Rabenhorst's Krypt.-Fl.*, ed. 2, 8: 1-712.
- von Keissler, K. 1936. Pyrenulaceae, Trypetheliaceae, Pyrenidiaceae, Xanthopyreniaceae, Mycoporaceae und Coniocarpinae. *Rabenhorst's Krypt.-Fl.*, ed. 2, 9, 1(2), 1: 1-160.
- von Keissler, K. 1937a. Pyrenulaceae, Trypetheliaceae, Pyrenidiaceae, Xanthopyreniaceae, Mycoporaceae und Coniocarpinae. *Rabenhorst's Krypt.-Fl.*, ed. 2, 9, 1(2), 2: 161-320.
- von Keissler, K. 1937b. Pyrenulaceae, Trypetheliaceae, Pyrenidiaceae, Xanthopyreniaceae, Mycoporaceae und Coniocarpinae. *Rabenhorst's Krypt.-Fl.*, ed. 2, 9, 1(2), 3: 321-480.
- Vondrák, J., Frolov, I., Kosnar, J., Arup, U., Veselská, T., Halici, G., Malicek, J. & Søchting, U. 2019. Substrate switches, phenotypic innovations and allopatric speciation formed taxonomic diversity within the lichen genus *Blastenia*. *J. Syst. Evol.* online: doi: 10.1111/ise.12503.
- Vouaux, L. 1912. Synopsis des champignons parasites de lichens. *Bull. Soc. Mycol. France* 28: 177-256.
- Vouaux, L. 1913. Synopsis des champignons parasites de lichens. *Bull. Soc. Mycol. France* 29: 33-128, 399-494.
- Wunder, H. 1974. Schwarzfrüchtige, saxicole Sippen der Gattung *Caloplaca* in Mitteleuropa, dem Mittelmeergebiet und Vorderasien. *Biblioth. Lichenol.* 3: 1-186.
- Vänskä, H. 1984. The identity of the lichens *Lecanora frustulosa* and *L. argopholis*. *Ann. Bot. Fennici* 21: 391-402.
- Yoshimura, I. 1964. Distribution and ecology of *Phylliscum* (lichens). *Bull. Kochi Gakugei High School* 5: 65-78.
- Yoshimura, I. 1998. Vainio and *Lobaria*, old and modern concepts. In M.P. Marcelli, M.P. & T. Ahti (eds). *Recollecting Edvard August Vainio*: 85-94.
- Zakeri, Z., Divakar, P.K. & Otte, V. 2017. Taxonomy and phylogeny of *Aspiciliella*, a resurrected genus of *Megasporaceae*, including the new species *A. portosantana*. *Herzogia* 30: 166-176.
- Zakeri, Z., Sipman, H.J.M., Paukov, A. & Otte, V. 2019. Validation of the typifications of *Aspiciliella cupreoglaucula* and *Aspicilia reticulata*. *Lichenologist* 51: 493.
- Zamora, J.C., Pérez-Ortega, S. & Rico, V.J. 2011. *Tremella macrobasidiata* (Tremellaceae), a new lichenicolous fungus from the Iberian Peninsula. *Lichenologist* 43: 407-415.
- Zamora, J.C., Millanes, A.M., Wedin, M., Rico, V.J. & Pérez-Ortega, S. 2016. Understanding lichenicolous *Heterobasidiomycetes*: new taxa and reproductive innovations in *Tremella* s.l. *Mycologia* 108: 381-396.
- Zamora, J.C., Diederich, P., Millanes, A.M. & Wedin, M. 2017. An old familiar face: *Tremella anaptychia* sp. nov. (Tremellales, Basidiomycota). *Phytotaxa* 307: 254-262.
- Zamora, J.C., Millanes, A.M., Etayo, J. & Wedin, M. 2018. *Tremella mayrhoferi*, a new lichenicolous species on *Lecanora allophana*. *Herzogia* 31: 666-676.
- Zavarzin, A. & Alstrup, V. 2005. *Roselliniella pannariae* found on *Fuscopannaria confusa* in Central Norway. *Graphis Scripta* 17: 9-10.

- Zehetleitner, G. 1978. Über einige parasitische Arten der Flechtengattung *Verrucaria*. *Nova Hedwigia* 29: 683-734.
- Zhao, X. et al. 2016. Towards a revised generic classification of lecanoroid lichens (Lecanoraceae, Ascomycota) based on molecular, morphological and chemical evidence. *Fungal Diversity* 78: 293-304.
- Zhuang, W.-Y. & Korf, R.P. 1989. Notes on one lichenicolous and one fungicolous Discomycete. *Mycotaxon* 034: 647-653.
- Zhuang, W.-Y. 1988. A monograph of the genus *Unguiculariopsis* (Leotiaceae, Encoelioideae). *Mycotaxon* 032: 1-83.
- Zhurbenko, M.P. & Alstrup, V. 2004. Lichenicolous fungi on *Cladonia* mainly from the Arctic. *Symb. Bot. Upsal.* 34(1): 477-499.
- Zhurbenko, M.P. & Grube, M. 2010. *Arthonia pannariae* (Arthoniaceae), a new lichenicolous fungus from northern Holarctic. *Graphis Scripta* 22: 47-51.
- Zhurbenko, M.P. & Nordin, A. 2010. *Stigidium vezdae* new to Fennoscandia. *Graphis Scripta* 22: 29-30.
- Zhurbenko, M.P. & Ohmura, Y. 2018. Contributions to the knowledge of lichenicolous fungi on *Thamnolia*. *Opuscula Philolichenum* 17: 368-373.
- Zhurbenko, M.P. & Pino-Bodas, R. 2017. A revision of lichenicolous fungi growing on *Cladonia*, mainly from the Northern Hemisphere, with a worldwide key to the known species. *Opuscula Philolichenum* 16: 188-266.
- Zhurbenko, M.P. & Santesson, R. 1996. Lichenicolous fungi from the Russian Arctic. *Herzogia* 12: 147-161.
- Zhurbenko, M.P. & Thor, G. 2013. *Lichenochora inconspicua* new to Fennoscandia. *Graphis Scripta* 25: 30-32.
- Zhurbenko, M.P. & Triebel, D. 2003. *Cercidospora lecidomae*, a new lichenicolous fungus from the North Holarctic. *Biblioth. Lichenol.* 86: 205-214.
- Zhurbenko, M.P. & Triebel, D. 2005. *Lasiophaeriopsis pilophori* sp. nov. (Sordariales) and other lichenicolous fungi on *Pilophorus*. *Mycol. Progress* 4: 317-323.
- Zhurbenko, M.P. 2007. New lichenicolous fungi from Eurasia. *Graphis Scripta* 19: 1-9.
- Zhurbenko, M.P. 2010. Lichenicolous fungi and lichens growing on *Stereocaulon* from the Holarctic, with a key to the known species. *Opuscula Philolichenum* 8: 9-39.
- Zhurbenko, M.P. 2012. Lichenicolous fungi growing on *Thamnolia*, mainly from the Holarctic, with a worldwide key to the known species. *Lichenologist* 44: 147-177.
- Zhurbenko, M.P. 2021. Lichenicolous fungi from the Holarctic. Part IV: New reports and a key to species on *Dermatocarpon*. *Opuscula Philolichenum* 20: 44-53.
- Zopf, W. 1898. Untersuchungen über die durch parasitische Pilze hervorgerufenen Krankheiten der Flechten (Fortsetzung). *Nova Acta Keiserl. Leop.-Carol. Deuten. Akad. Naturf.* 70(4): 241-288.
- Zschacke, H. 1920. Die Mitteleuropäischen *Verrucariaceen* III. *Hedwigia* 62: 90-154.
- Zschacke, H. 1933a. *Epigloeaceae, Verrucariaceae, Dermatocarpaceae*. *Rabenhorst's Krypt.-Fl.*, ed. 2, 9, 1(1): 1-160.
- Zschacke, H. 1933b. *Epigloeaceae, Verrucariaceae, Dermatocarpaceae*. *Rabenhorst's Krypt.-Fl.*, ed. 2, 9, 1(1): 161-320.
- Zschacke, H. 1933c. *Epigloeaceae, Verrucariaceae, Dermatocarpaceae*. *Rabenhorst's Krypt.-Fl.*, ed. 2, 9, 1(1): 321-480.
- Zschacke, H. 1934. *Epigloeaceae, Verrucariaceae, Dermatocarpaceae*. *Rabenhorst's Krypt.-Fl.*, ed. 2, 9, 1(1): 481-695.
- Ågren, Å. 1994. Rättelse - ny lav för Sverige. *Väx* 1994(1): 30.

Ågren, Å. 1995. Nya lavar för Sverige. Väx 1995(2): 35.

Øiseth, K.B. & Aarvik, S. 1982. Laven *Bryoria implexa* ny for Noreg (Norge). *Blyttia* 40: 83-84.

Østhagen, H. & James, P.W. 1977. *Cladonia fragilissima*, a new lichen species from NW Europe. *Norw. J. Bot.* 24: 123-125.

Østhagen, H. 1971. *Cladonia deformis* and *C. gonecha* in Norway and Svalbard. *Norw. J. Bot.* 18: 87-92.

Østhagen, H. 1972. The chemical strains in *Cladonia luteoalba* Wils. et Wheld. and their distribution. *Norw. J. Bot.* 19: 37-41.

Østhagen, H. 1974. The macrolichen *Cladonia luteoalba* and *Tholurna dissimilis* new to Central Europe. *Norw. J. Bot.* 21: 161-164.

Østhagen, H. 1975. Om forekomsten av laven *Cladonia rei* (= *C. nemoxya*) i Norge. *Blyttia* 33: 223-227.

Østhagen, H. 1976. Nye utbredelsesdata for norske makrolav. *Blyttia* 34: 189-203.

Østhagen, H., Hovda, J.T. & Viereck, L.A. 1975. *Ramalina siliquosa*-komplekset i Norge. *Blyttia* 33: 27-33.

Øvstedal, D.O. 1979. Contribution to the lichen flora of Lindås and Austrheim, western Norway. Bergen, 22 pp.

Øvstedal, D.O. 1986. Nordisk lichenologisk forenings ekskursjon til Norge 1985. *Graphis Scripta* 1: 14-25.



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