

The Australian National University

Curriculum Vitae

Michael Douglas CRISP

Position: Professor (tenured)
Faculty of Science
School of Botany and Zoology (BoZo)
<<http://www.anu.edu.au/BoZo/Crisp/>>

Date of birth: 9 February 1950

Academic qualifications:

1970: B. Sc., University of Adelaide

1971: B. Sc. (Hons), First Class, University of Adelaide

1976: Ph. D., University of Adelaide

PhD thesis title:

“Long term change in arid zone vegetation at Koonamore, South Australia”.

Main Research Interests:

My research in systematics investigates the evolutionary origins and patterns of diversification of organisms, especially plants, in time and space. I use DNA sequences to construct phylogenies (evolutionary trees) as a framework for testing evolutionary hypotheses, and for classifying and naming organisms.

Present Appointment with the ANU:

Professor from January 2004 until retirement.

Previous Appointments:

2000-2003: Head, School of Botany and Zoology, ANU

1993 to present: Honorary Research Associate, Centre for Plant Biodiversity Research (CPBR), CSIRO, Canberra

1990-2003: Lecturer, Senior Lecturer and Reader in BoZo, ANU

November 1990: Research Scientist, Australian National Botanic Gardens, Canberra (ANBG)

August 1981 to September 1982: Australian Botanical Liaison Officer, Royal Botanic Gardens, Kew, United Kingdom

July 1975 to October 1990: Science 2 (Botanist), ANBG

Academic Awards and Distinctions:

1967: South Australian Leaving Bursary, providing University fees and a maintenance grant, (awarded 1965 to top 5% of students).

1969: Ernest Ayers Scholarship in Botany, 1969 (University of Adelaide).

1971: Australian Wool Board Postgraduate Research Scholarship, providing living allowance and research grant for PhD studies.

Research

External grants

16. Australian Research Council (ARC) Discovery scheme: \$295,000 in 2006-8 for “Australia's monsoon tropical flora: invader or relict?”
15. Australian Research Council (ARC) Network scheme: \$2.5 million in 2004-9 for Australia-New Zealand Vegetation Function Network (Mark Westoby et al.)
14. Royal Society of London: UK£700 in 2004 to attend a meeting on “Plant phylogeny and the origin of major biomes”.
13. Grains Research and Development Corporation (GRDC): \$259,064 in 2003-7 for “Lectureship in Plant-Microbe Interactions”.
12. Australian Research Council (ARC) Discovery scheme: \$240,572 in 2003-5 for “Were the Tertiary radiations of the Australian flora synchronous? A molecular phylogenetic approach”.
11. Australian Biological Resources Study (ABRS): \$82,500 in 2003-5 for “Phylogeny and biogeography of *Pouteria* (Sapotaceae) in Malesia and Australia”, supporting postgraduate research by Teguh Triono.
10. ABRS: \$60,300 in 2002-4 for “An investigation of generic level relationships in *Syzygium*”, supporting postgraduate research by Ed Biffin.
9. ABRS: \$66,000 in 2001-4 for “Systematics of *Rhodanthe* and allies (Asteraceae: Gnaphalieae)”, supporting postgraduate research by Ed Cross.
8. ABRS: \$50,000 in 2001-3 for “Taxonomic revision and phylogenetic analysis of *Aotus* and related genera (Leguminosae, Mirbelieae)”, with J.A. Chappill.
7. ARC Large Grant: \$97,000 in 2000-2 for “Evolutionary history and biogeography of the Australian bitter peas (*Daviesia*: Fabaceae)”.
6. ABRS: \$27,500 in 1997-2000 for “Revision of *Gastrolobium* (Fabaceae)”, supporting postgraduate research by Greg Chandler.
5. ARC large grant: \$165,000 in 1996-8 for “Molecular systematics of an Australian legume group”.
4. ABRS: \$58,124 in 1996-7 for “Revision of *Daviesia* (Fabaceae)”.
3. ABRS: \$75,267 in 1994-7 for “Systematics and biogeography of Pittosporaceae”, supporting postgraduate research by Lindy Cayzer.
2. Royal Society of London: UK£500 in 1992 to attend the Third International Legume Conference.
1. ABRS: \$107,551 in 1991-4 for “Revision of *Jacksonia* (Fabaceae: Mirbelieae)”, with J.A. Chappill.

Research Group

Staff

David Morris, an ARC-funded Postdoctoral Research Associate, works with me on molecular phylogenetics and macro-evolution of the Australian flora and fauna, and supervises students' lab work. He also does his own research on the biology of thrips insects.

Current students

Melita Baum, Ph.D., Phylogeography of *Telopea* and *Lomatia* species (Proteaceae), co-supervised by Maurizio Rossetto and Peter Weston (RBG, Sydney).

- Ed Biffin*, Ph.D., Phylogeny and evolution of fruits of *Syzygium* (Myrtaceae), co-supervised by Lyn Craven (CPBR) and Paul Gadek (JCU).
- Richard Carter*, Ph.D., Biogeography and radiation of the *Brachychiton* clade (Sterculiaceae), co-supervised by Pete Lockhart (Massey Univ, NZ), Lyn Cook (UQ) and Bernard Pfeil (CPBR).
- Robert Edwards*, Ph.D., Contemporary or ancient gene flow? Consequences for biological control, ecological theory and taxonomy in a complex of long-lived tropical trees (*Melaleuca leucadendra* group), based at UQ and co-supervised by Lyn Cook.
- Roberta Hitchcock*, Ph.D., Clarifying the taxonomy of the lightbrown apple moth group: revision of the genus *Epiphyas*, co-supervised by Marianne Horak (CSIRO), Andrew Mitchell (NSW Govt) and John Trueman (BoZo).
- Andrew Thornhill*, Ph.D., Pollen morphology of Myrtaceae and its significance for the systematics of extant and fossil taxa, co-supervised by Geoff Hope (ANU), Lyn Craven (CSIRO).
- Senilolia Tuiwawa*, M.Phil., Systematics and Biogeography of *Syzygium* (Myrtaceae) in Vanuatu, co-supervised by Lyn Craven (CPBR).

Past Students (year of completion)

- Melita Baum*, B.Sc. (Hons) (2007), Variation within the monotypic genus, *Howittia trilocularis*, using morphological and molecular data, co-supervised by Linda Broadhurst and Lyn Craven (CSIRO).
- Teguh Triono*, Ph.D. (under examination in 2007), Systematics of Sapotaceae in Australia, co-supervised by Judy West (CPBR). Now employed as a botanist by the Indonesian government.
- Andrea Leigh*, Ph.D. (2007), Comparative evolution of leaves of Proteaceae in Australia and South Africa, co-supervised by Adrienne Nicotra (BoZo) and William Stock (University of Cape Town). Now an academic at UTS Sydney.
- Robert Edwards*, B.Sc. (Hons) (2006), A phylogenetic study of the Melaleuceae alliance (Myrtaceae) using morphological and molecular data, co-supervised with Lyn Cook (BoZo) and Lyn Craven (CPBR). Now a PhD student.
- Ed Cross*, Ph.D. (2006), Systematics of the *Rhodanthe* (Asteraceae: Gnaphalieae: Angianthinae), a combined molecular and morphological approach, co-supervised by Randy Bayer (CPBR) and Chris Quinn (UNSW). Sadly deceased.
- Anna Monro*, Ph.D. (2004), Systematics of the Australian Polygalaceae sens. lat. Now employed at CPBR.
- Lindy Orthia*, B.Sc. (Hons) (2003), Systematics of *Pultenaea* (Fabaceae) – University Medallist, co-supervised by Lyn Cook (BoZo) and Judy West (CPBR). Now a PhD student in science communication at ANU.
- Scot Kelchner*, Ph.D. (2003), Phylogenetic structure, biogeography, and evolution of the Myoporaceae. Now an assistant professor at the Department of Biological Sciences, Idaho State University, USA.
- Bernard Pfeil*, Ph.D. (2002), Systematics of the Hibisceae (Malvaceae) in Australia. Now a post-doc with Jeff Doyle at Cornell University, USA.
- Rose Andrew*, B.Sc.(Hons) First Class (2001), The genetics and maintenance of morphological diversity in *Acacia aneura*. Now a Ph.D. student in the Foley lab, BoZo.

- Ed Biffin*, B.Sc.(Hons) First Class and University Medal (2001),
Biogeography of *Flindersia* (Rutaceae) in the Australian wet tropics.
Now a Ph.D. student with me.
- Simone Louwhoff*, Ph.D. (2000), The lichen genera *Hypotrachyna* and
Parmotrema in the Pacific Islands: taxonomy, phytochemistry and
distribution. Now a tenured curator at the Natural History Museum,
London.
- Greg Chandler*, Ph.D. (2001), Systematic studies in *Gastrolobium* (Fabaceae:
Mirbelieae). B.Sc. (Hons.) First Class (1995), A revision of the
Daviesia ulicifolia Andr. species complex. Now a tenure-track
academic at University of North Carolina, USA.
- Lina Juswara*, M.Phil. (2000), Systematics of *Goodyera* R.Br. sect.
Otosepalum Schltr. and related taxa (Orchidaceae). Now working as a
curator at the Indonesian National Herbarium, Bogor.
- Emma Lumb*, B.Sc.(Hons) 2A (2000), Is *Podolobium ilicifolium* (Fabaceae:
Mirbelieae) a species complex? Now working at the Australian Institute
of Environmental Health, Canberra.
- Scott Gilmore*, B.Sc.(Hons) First Class (1999). Is *Dicranoloma robustum*
conspecific with *D. billardierii*? Now a Ph.D. student at Research School
of Biological Sciences, ANU.
- Jim Mant*, B.Sc.(Hons) First Class (1998). A phylogeny of *Triodia* R.Br. and
related genera (Poaceae: Triodieae). Now a post-doc at the University of
Zurich, Switzerland.
- Lindy Cayzer*, Ph.D. (1997). Revision of the family Pittosporaceae in
Australia. B.Sc. (Hons.) 2A (1993). The investigation of phenotypic
variation within and between three eucalypt taxa occurring in the A.C.T.
Now working at the Australian National Botanic Gardens.
- Andrew Lyne*, Grad. Dip Sci. (1997). Analysis of the geographic variation
exhibited by *Leptospermum brevipes* F. Muell. Now working at the
Australian National Botanic Gardens.
- Ian Telford*, Grad. Dip Sci. (1997). Morphological variation in the *Sicyos*
australis Endl. complex (Cucurbitaceae) and a preliminary investigation
of the sectional classification of the genus. Now a Ph.D, student at the
University of New England.
- Anna Monro*, B.Sc. (Hons.) First Class (1997). Phylogeny and biogeography
of the *Mirbelia spinosa* group (Fabaceae: Mirbelieae). Now enrolled in
a Ph.D. with myself.
- Belinda Alvarez de Glasby*, Ph.D. (1996). The phylogenetic relationships of
the family Axinellidae (Porifera: Demospongiae). Now working at the
Northern Territory Museum.
- Susan Hoebee*, B.Sc. (Hons.) First Class (1996). Ecological and evolutionary
aspects of a *Daviesia* (Fabaceae) hybrid zone. Now a post-doc at the
Swiss Federal Institute WSL, Birmensdorf.
- Tracey Parrish*, B.Sc. (Hons.) First Class (1994). The systematics of two
species of Waratah, *Telopea mungaensis* F. Muell. and *T. oreades* Cheel
(Proteaceae). Ph.D., Netherlands Institute of Ecology, Utrecht
University (2002).
- Pam Flood*, B.Sc. (Hons) 2A (1994). Characterisation of a hybrid zone
between *Daviesia leptophylla* and *D. mimosoides*. Now working in the
Public Service.

Visiting fellows on sabbatical leave

Kevin Omland, University of Maryland, Baltimore County (2007)

Sara Hoot, University of Wisconsin (2002)

Susan Moyle Studlar, West Virginia University (2001)

Peter Linder, University of Cape Town (1994, 2000)

Gerry Allen, University of Victoria, Canada (1998-9)

David Morrison, University of Technology, Sydney (1994)

Teaching

Undergraduate courses

Courses taught 2000-7 under 8:8:8 system:

- “*Ecology, Evolution and Genetics*” (BIOL1003), 1st year. Contact: 9 hours lecturing. 250-250 students.
- “*Plant Diversity*” (BIOL2122), 2nd year. Contact: 13 hours lecturing; 25 hours practicals, field work and tutorials. 20-25 students.
- “*Biodiversity and Systematics*” (BIOL3134), 3rd year. Contact: 18 hours lecturing; 8 hours tutoring. 30-50 students.
- “*Botanical Internship*” (BIOL3124/3138), 3rd year inter-semester. Contact: 1.5 hours lecturing. (Course run by CPBR/CSIRO; my contribution is mainly administration and marking). 1-4 students.

Courses taught prior to 2000 under 8:6:6 system:

- “*Comparative Biology and Systematics*” (C21, BIOL3021), 3rd year. Contact: 18 hours lecturing; 18 hours practicals; 8 hours field trip. 30-40 students.
- “*Evolution*” (C12), 3rd year seminar course, 2 weeks per annum. Contact: 18 hours supervision of seminars and discussions (evenings); 12 hours tutorials (rehearsing student seminars). 30 students (quota).
- “*Plant Reproduction and Systematics*” (B22, B23, BIOL2023), 2nd year, 7 weeks per annum. Contact: 18 hours lecturing; 18 hours practicals; 1 weekend field trip. 20-30 students.

Also, I coordinate (administer) 2-3 courses per year, spend an hour per week on individual student consultations, and my marking totals about 1 week per semester.

Honours and postgraduate supervision

I supervise research students (listed above) in my main areas of interest (plant systematics, biogeography and comparative biology) and also in related areas with specialist co-supervisors (ecology and systematics of non-plant organisms).

Postgraduate course

In 1995 I organised, designed and ran a one-week course entitled ‘Cladistic Analysis: Morphological and Molecular’, with John Trueman (ANU) and David Morrison (UTS). Participants included honours and postgraduate students, academics, and technical staff and professionals from museums and herbaria. They came from all

over Australia and New Zealand. We received very positive comments from the participants at the end. Dr Trueman continued this course for several years.

University administration

Specific roles and responsibilities

Head, School of Botany and Zoology, 2000-3.

I was responsible for a large department with more than 100 staff and research students, including 15 tenured academic staff, 15 postdoctoral and research fellows, 13 university-funded general staff providing technical and administrative support, a large number of grant-funded support staff.

Curator of the GAUBA herbarium, ANU, 1991-present.

This museum collection is internationally recognised and listed in 'Index Herbariorum'.

Single course coordination

At different times I have coordinated all of the semester courses in which I teach.

Student advising, coordinating and enrolling

Departmental student advisor, 1997-9.

Whole program coordination

BoZo Honours course coordinator, 1993-5; 2005-7.

Specific contributions to the administration of the department

- Convener of seminar program, 1991-3; 2005-6.
- Selection committees for the appointment of academic staff, 1994, 1999 and 2000.

Membership of committees

Faculty of Science (monthly), 1992-3, 1998-9 and 2000-3.

Professional links to the wider community

Sabbatical leave

- 2008 based at UQ with Lyn Cook.
- 2004 based at ANU with visits to the UK and Switzerland, and extensive field work in western and northern Australia.
- 1996-7 at CSIRO Plant Industry with Judy West, and at the University of Cape Town with Peter Linder, research in biogeography.
- 1981-2 as Australian Botanical Liaison Officer, Royal Botanic Gardens, Kew, United Kingdom; research in legume systematics.

Editorships and peer reviews

- *Systematic Biology*, member of the Editorial Board, 1999-present.
- Edited special issue of *Australian Systematic Botany*, vol. 16, no. 1 (2003), 'Biology of *Acacia*. Advances in Legume Systematics Part 11'.

- Edited special issue of *Journal of Biogeography*, vol. 28, no. 2 (2001), ‘Historical biogeography and patterns of diversity in plants, algae and fungi’.
- Edited ‘Advances in Legume Systematics, Part 7, Phylogeny’ (1995), with J.J. Doyle.
- Reviews of manuscripts for a wide range of systematics and biogeography journals, including *Annals of Botany*, *Australian Systematic Botany*, *International Journal of Plant Sciences*, *Journal of Biogeography*, *Molecular Phylogenetics and Evolution*, *New Zealand Journal of Botany*, *Plant Systematics and Evolution*, *Proceedings of the Royal Society of London B*, *Systematic Biology*, *Taxon*.
- Referee of grant applications for Australian Biological Resources Study, Australian Research Council, South African National Research Foundation, and National Science Foundation (USA).

Conference participation/organisation (highlights)

- Invited speaker on ‘Australian biomes’ at a symposium on ‘Plant phylogeny and the origin of major biomes’ at the Royal Society in London on March 15-16, 2004.
- Principal convener of the Fourth International Legume Conference, held at ANU in July 2001.
- Co-organiser of a symposium on Biogeography at the International Botanical Conference at St Louis, USA, in 1999.
- Co-organiser of the Third International Legume Conference in London in 1992.

External collaborative links

- Honorary research associate at the Centre for Plant Biodiversity Research (CPBR), CSIRO. My research students have full access to the facilities there, as well as co-supervision by leading systematists such as Randy Bayer, Curt Brubaker, Jeremy Burdon, Chris Cargill, Lyn Craven and Judy West. Some of these staff also teach in my undergraduate courses.
- Research on radiation of the flora, biome assembly and historical biogeography in Australia and the southern hemisphere with Lyn Cook (UQ), Shawn Laffan (UNSW), Peter Linder (University of Zurich) and Peter Weston (Royal Botanic Gardens, Sydney).

Provision of advice and assistance to government agencies

- CSIRO Entomology, Australian National Insect Collection Fund Board of Governors, 2005-7.
- Australian Biological Resources Study: chair of Flora editorial committee 1999-2001.

Membership of learned societies

- Australian Systematic Botany Society: President, 1992-5; Vice President, 1989-91; Associate Editor, “ASBS Newsletter”, 1988-90; Public Officer, 1986-92; Councillor, 1985-9; Convener of Canberra Chapter, 1979-81.
- Society of Australian Systematic Biologists: co-founder; President 1998-9; Councillor 2001-7.
- International Association for Plant Taxonomy.
- Society of Systematic Biologists. Member of the Editorial Board, 1999-present.
- American Society of Plant Taxonomists.

Publications

Refereed articles

Submitted or in press

- Omland, K. E., Cook, L. G. and **Crisp, M. D.** (in review). Looking for ancestors in the treetops: how evolution is represented in 21st Century phylogenies. *Bioessays*
- Cook, L. G., Morris, D. C., Edwards, R. D. and **Crisp, M. D.** (in press). Reticulate evolution in the natural range of the invasive wetland tree species *Melaleuca quinquenervia*. *Molecular Phylogenetics and Evolution*.
- Chappill, J. A., Wilkins, C. F. and **Crisp, M. D.** (in press). Taxonomic revision of *Gompholobium* (Leguminosae: Mirbelieae). *Australian Systematic Botany*.
- Biffin, E., Craven, L. A., **Crisp, M. D.**, Gadek, P. A. and Harrington, M. A. (in press). Evolutionary relationships within *Syzygium* sens. lat. (Myrtaceae): molecular phylogeny and new insights on morphology. Proceedings 6th International Flora Malesiana Symposium, 2004.

Published

98. Chappill, J. A., Wilkins, C. F. and **Crisp, M. D.** (2007). Taxonomic revision of *Jacksonia* (Leguminosae: Mirbelieae). *Australian Systematic Botany* **20**, 473-623..
97. ***Crisp, M. D.** and Cook, L. G. (2007). A congruent molecular signature of vicariance across multiple plant lineages. *Molecular Phylogenetics and Evolution* **43**, 1106-1117.
96. Biffin, E., Harrington, M. G., **Crisp, M. D.**, Craven, L. A. and Gadek, P. A. (2007). Structural partitioning, paired-sites models and evolution of the ITS transcript in *Syzygium* and Myrtaceae. *Molecular Phylogenetics and Evolution* **43**, 124-139.
95. Cayzer, L. W., **Crisp, M. D.** and Donaldson, S. (2007). *Cheiranthra* (Pittosporaceae). *Australian Systematic Botany* **20**, 340-354.
94. Triono, T., Brown, A. H. D., West, J. G. and **Crisp, M. D.** (2007) A phylogeny of *Pouteria* (Sapotaceae) from Malesia and Australasia. *Australian Systematic Botany* **20**, 107-118.
93. **Crisp, M. D.** (2006). Assembly of biomes: what we know and what we need to know. *Journal of Biogeography* **33**, 1332-1333.
92. Biffin, E., Craven, L. A., **Crisp, M. D.** and Gadek, P. A. (2006). Molecular systematics of *Syzygium* and allied genera (Myrtaceae): evidence from the chloroplast genome. *Taxon* **55**, 79-94.
91. *Cook, L. G. and **Crisp, M. D.** (2005). Not so ancient: the extant crown group of *Nothofagus* represents a post-Gondwanan radiation. *Proceedings of the Royal Society of London, B. Biological Sciences* **272**, 2535-2544.
90. Biffin, E., Craven, L. A., Tuiawa, M., **Crisp, M. D.** and Gadek, P. A. (2005). South Pacific *Cleistocalyx* transferred to *Syzygium* (Myrtaceae). *Blumea* **50**, 383-388.
89. *Cook, L. G. and **Crisp, M. D.** (2005). Directional asymmetry of long distance dispersal and establishment could mislead reconstructions of biogeography. *Journal of Biogeography* **32**, 741-754.
88. ***Crisp, M. D.** and Cook, L. G. (2005). Do early branching lineages signify ancestral traits? *Trends in Ecology and Evolution* **20**, 122-126.
87. **Crisp, M. D.**, Cook, L. G. and Steane, D. A. (2005). Molecular dating and eucalypts: reply to Ladiges and Udovicic. *Australian Systematic Botany* **18**, 295-296.
86. Luckow, M., Hughes, C., Schrire, B., Winter, P., Fagg, C., Fortunato, R., Hurter, J., Rico, L., Breteler, F. J., Bruneau, A., Caccavari, M., Craven, L., **Crisp, M. D.**, S., A. D., Demissew, S., Doyle, J. J., Grether, R., Harris, S., Herendeen, P. S., Hernández, H. M., Hirsch, A. M., Jobson, R., Klitgaard, B. B., Labat, J.-N., Lock, J. M., MacKinder, B., Pfeil, B., Simpson, B. B., Smith, G. F., S., M. S., Timberlake, J., Maesen, J. G. v. d., Wyk, A. E. V., Vorster, P., Willis, C. K., Wieringa, J. J. & Wojciechowski, M. F. (2005). *Acacia*: the case against moving the type to Australia. *Taxon* **54**, 513-519.
85. Orthia, L. A., Cook, L. G. and **Crisp, M. D.** (2005). Generic delimitation and phylogenetic uncertainty: an example from a group that has undergone an explosive radiation. *Australian Systematic Botany* **18**, 41-47.
84. Orthia, L. A., **Crisp, M. D.**, Cook, L. G. and de Kok, R. P. J. (2005). Bush peas: a rapid radiation

- with no support for monophyly of *Pultenaea* (Fabaceae: Mirbelieae). *Australian Systematic Botany* **18**, 133-147
83. Orthia, L. A., de Kok, R. P. J. and **Crisp, M. D.** (2005). A revision of *Pultenaea* (Fabaceae: Mirbelieae): 4. Species occurring in Western Australia. *Australian Systematic Botany* **18**, 149-206
 82. Pfeil, B. E. and **Crisp, M. D.** (2005). What to do with *Hibiscus*? A proposed nomenclatural resolution for a large and well known genus of Malvaceae. *Australian Systematic Botany* **18**, 49-60.
 81. ***Crisp, M. D.**, Cook, L. G. and Steane, D. A. (2004). Radiation of the Australian flora: what can comparisons of molecular phylogenies across multiple taxa tell us about the evolution of diversity in present-day communities? *Philosophical Transactions of the Royal Society of London B, Biological Sciences* **359**, 1551-1571.
 80. Cayzer, L. W. and **Crisp, M. D.** (2004). Reinstatement and revision of *Marianthus* (Pittosporaceae). *Australian Systematic Botany* **17**, 127-144.
 79. Cayzer, L. W., **Crisp, M. D.** and Telford, I. R. H. (2004). Cladistic analysis and revision of *Billardiera* (Pittosporaceae). *Australian Systematic Botany* **17**, 83-125.
 78. Pfeil, B. E., Brubaker, C. L., Craven, L. A. and **Crisp, M. D.** (2004). Paralogy and orthology in the Malvaceae *rpb2* gene family: investigation of gene duplication in *Hibiscus*. *Molecular Biology and Evolution* **21**, 1428-1437
 77. **Crisp, M. D.** and Cook, L. G. (2003). Phylogeny and evolution of anomalous roots in *Daviesia* (Fabaceae: Mirbelieae). *International Journal of Plant Sciences* **164**, 603-612.
 76. **Crisp, M. D.** and Cook, L. G. (2003). Molecular evidence for definition of genera in the *Oxylobium* group (Fabaceae: Mirbelieae). *Systematic Botany* **28**, 705-713.
 75. **Crisp, M. D.** and Cook, L. G. (2003). Phylogeny and embryo sac evolution in the endemic Australasian papilionoid tribes Mirbelieae and Bossiaeeae. *Advances in Legume Systematics, Part 10. Higher Level Systematics* (Eds. B.B. Klitgaard and A. Bruneau) pp. 253-268. (Royal Botanic Gardens, Kew.)
 74. Hogbin, P. M. and **Crisp, M. D.** (2003). Evolution of the coastal neospecies *Zieria prostrata* (Rutaceae) and its relationship to the *Zieria smithii* species complex. *Australian Systematic Botany* **16**, 515-525.
 73. Andrew, R., Miller, J. T., Peakall, R., **Crisp, M. D.** and Bayer, R. J. (2003). Genetic, cytogenetic and morphological variation in a mixed mulga population: evidence for apomixis. *Australian Systematic Botany*, **16**, 69-80.
 72. *Laffan, S. W. and **Crisp, M. D.** (2003). Assessing endemism at multiple spatial scales, with an example from the Australian vascular flora. *Journal of Biogeography* **30**, 511-520.
 71. Chandler, G. T., **Crisp, M. D.**, Cayzer, L. W., and Bayer, R. J. (2002). Monograph of *Gastrolobium* (Fabaceae: Mirbelieae). *Australian Systematic Botany* **15**, 619-739.
 70. Pfeil, B. E., Brubaker, C. L., Craven, L. A., and **Crisp, M. D.** (2002). Phylogeny of *Hibiscus* and the tribe Hibisceae (Malvaceae) using chloroplast DNA sequences of *ndhF* and the *rpl16* intron. *Systematic Botany* **27**, 333-350.
 69. Chandler, G. T., Bayer, R. J., and **Crisp, M. D.** (2001). A molecular phylogeny of the endemic Australian genus *Gastrolobium* (Fabaceae: Mirbelieae) and allied genera using chloroplast and nuclear markers. *American Journal of Botany* **88**, 1675-1687.
 68. **Crisp, M. D.** (2001). Historical biogeography and patterns of diversity in plants, algae and fungi: Introduction. *Journal of Biogeography* **28**, 153-155.
 67. ***Crisp, M. D.**, Laffan, S., Linder, H. P., and Monro, A. (2001). Endemism in the Australian flora. *Journal of Biogeography* **28**, 183-198.
 66. Alvarez, B., **Crisp, M. D.**, Driver, F., Hooper, J. N. A., and Van Soest, R. W. M. (2000). Phylogenetic relationships of the family Axinellidae (Porifera: Demospongiae) using morphological and molecular data. *Zoologica Scripta* **29**, 169-198.
 65. Cayzer, L. W., **Crisp, M. D.**, and Telford, I. R. H. (2000). Revision of *Pittosporum* (Pittosporaceae) in Australia. *Australian Systematic Botany* **13**, 845-902.
 64. Cayzer, L. W., **Crisp, M. D.**, and Telford, I. R. H. (2000). *Auranticarpa*, a new genus of Pittosporaceae from northern Australia. *Australian Systematic Botany* **13**, 903-917.
 63. ***Crisp, M. D.**, Gilmore, S., and Van Wyk, B.-E. (2000). Molecular phylogeny of the genistoid tribes of papilionoid legumes. In 'Advances in Legume Systematics, Part 9'. (Eds P. S. Herendeen and A. Bruneau.) pp. 249-276. (Royal Botanic Gardens: Kew, UK.)
 62. Louwhoff, S. H. J. J., and **Crisp, M. D.** (2000). Phylogenetic analysis of *Parmotrema* (Parmeliaceae: lichenised Ascomycotina). *The Bryologist* **103**, 541-554.

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