

## META-ANALYSIS OF THE GLOBAL DIVERSITY AND SPATIAL PATTERNS OF APHID-ANT MUTUALISTIC RELATIONSHIPS

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**Abstract.** Mutualism is a fundamental relationship that can shape species communities through co-evolutionary adaptations and also has great ability to change ecosystem functions. Aphids and ants are common insect groups which are distributed widely across the world. The mutualistic relationships between them have gained much attention in history. However, very few studies have been carried out on the diversity of associated aphid and ant species pairs. In this study, we tried to gather available published data about the diversity of species pairs of aphids and ants to find out potential ecological and geographical patterns. The results showed that 284 species of aphids belonging to 83 genera and 9 subfamilies were mutualistically associated with 193 species of ants belonging to 38 genera and 4 subfamilies. In this report we elucidated a total of 972 aphid-ant interactions and 915 ant-aphid interactions (one aphid species may associate with many ant species and vice versa). Among these relationships, a highest number of ant species were associated with the aphid genus *Aphis*, while a highest number of aphids were associated with the ant genus *Formica*. Besides, an obvious geographical pattern was indicated that the subtropical region may have a higher diversity of aphid-ant associations. This global analysis of current knowledge about diversity and patterns of aphid-ant mutualistic relationships also indicates that more taxonomic and ecological studies are needed to enrich our understanding of these associations.

**Keywords:** *multispecies interaction, symbiosis, myrmecophiles, Hymenoptera, Formicidae*

### Introduction

Reciprocally beneficial associations (e.g. mutualism) support and promote biodiversity (Herre et al., 1999; Bascompte and Jordano, 2007; Ito and Gobin, 2009). These interactions are common and conspicuous in terrestrial communities from tropical to temperate regions (Buckley, 1987; Hölldobler and Wilson, 1990; Delabie, 2001; Styrsky and Eubanks, 2007). These associations trigger the dynamics of ecological communities by influencing the environmental variables, species evolution and survival rate (Bronstein, 2009; Hosseini et al., 2017). One classic example of mutualistic relationship are the interactions between aphids and ants (Darwin, 1859; Stadler and Dixon, 2005).

The aphids (Hemiptera: Aphididae) are a group with 24 subfamilies and more than 5000 species all over the world (Favret, 2018). The diversity of aphid species is far higher in the northern hemisphere temperate regions than anywhere else (Dixon et al., 1987; Heie, 1994; Huang et al., 2012). Some aphid species are destructive pests and voracious feeder of various crops, and also vectors of various plants diseases (Mittler, 1958;

Blackman and Eastop, 1984; Buruchara et al., 2010). The ants (Hymenoptera: Formicidae) are one of the most common insect group on the Earth, which is divided into 21 subfamilies with 497 genera and more than 26700 species (Ward, 2013). Ants usually are very diverse and economically important social insects mostly dominant in the tropical regions (Hölldobler and Wilson, 1990; Philpott and Armbrecht, 2006). Ants fulfill their dietary requirements by performing various roles like decomposers, pollinators, scavengers, predators, and herbivores (Blackman and Eastop, 1984). Ants also feed on honeydew secretions of hemipterans such as aphids, and have a symbiotic association among them (Jahn and Beardsley, 1996; Styrsky and Eubanks, 2007).

Mutualism is a fundamental element in aphid-ant communities and behavior through co-evolutionary adaptation (Herre et al., 1999; Carabalí-Banguero et al., 2013). These relationships can abundantly be found within various aphid-ant groups (Styrsky and Eubanks, 2007) and can shape the species richness, abundance, and distribution. There are two main groups of aphids; myrmecophilous (tended by ants) and non-myrmecophilous (untended by ants) (Novgorodova, 2002, 2005). Myrmecophilous aphids and ants share their habitats and build a strong bond by providing food and security. Ants collect honeydew produced by aphids, and in return they protect them from their predators, parasitoids, and adverse climatic conditions (Hölldobler and Wilson, 1990; Stadler and Dixon, 2005; Novgorodova and Ryabinin, 2017). Moreover, ants provide aphids protection from the sooty mold infestation by sanitation, which propagates in the presences of honeydew accumulation (Way, 1963; Hölldobler and Wilson, 1990; Stadler and Dixon, 2005; Novgorodova and Ryabinin, 2017). For example, the population of associated aphids increased due to these relationships, and they can damage host plants and reduce yield. Honeydew-producing hemipterans tended by ants have a wide range of host plants, including trees, shrubs, vines (Floate and Whitham, 1994; Rico-Gray and Castro, 1996; Styrsky and Eubanks, 2007), fobs and grasses (Moya-Ragoza and Nault, 2000). Besides, the degree of such protection was observed to differ among aphids attending by ants (Addicott, 1978; Katayama and Suzuki, 2003; Novgorodova and Gavrilyuk, 2012) and also depend on the aggressiveness of ants and honeydew collection approaches, in particular degree of specialty among foragers (Novgorodova and Gavrilyuk, 2012; Novgorodova, 2015). Due to the close aphid-ant interactions, complex networks of mutualistic interactions are formed between these insect groups of multispecies communities. The reason for their successful interaction is that they exist in a wide range of natural habitats (Buckley, 1987; Way and Khoo, 1992). However, ethological and ecological mechanisms of mutualism are still poorly understood.

The majority of previous studies have mainly focused on one or few pairs of aphid-ant species, while the general information of trophobiotic interactions among aphids and ants in most of regions are still limited. Besides, many review papers demonstrated the mutualistic ecology, cost and constraints, positive or negative mutualistic interactions of aphids and ants (Boucher et al., 1982; Buckley, 1987; Bronstein, 1994; Stadler and Dixon, 1998; Hoeksema and Bruna, 2000; Bronstein and Barbosa, 2002; Stadler and Dixon, 2005). However, there is a lack of the knowledge of diversity of aphid-ant species pairs which can provide complete information about their relationships in different ecological zones and can elaborate the patterns of these associations. A reason for this gap may be due to the lack of integration and meta-analysis of dispersed information on aphid-ant interactions in previous literature.

This study will generate an interest in quantifying the importance of aphid-ant interactions for global diversity patterns, distribution of species pairs and will also help

the examination of the interactions of aphid-ant species across different ecological zones. Furthermore, data on species pairs along with geographical information can be used to study aphid-ant interactions at regional and global scale. Therefore, there is a need to investigate the current state of knowledge about the diversity of aphid-ant species associations. Based on data from published literature, this paper aimed to depict the current state of the taxonomic diversity of aphid-ant species pairs as well as the spatial patterns of their interactions (Tylianakis et al., 2008; Gilman et al., 2010).

## **Materials and methods**

### ***Data collection of aphid-ant species pairs***

We collected species and distribution data from the available previously published researches (1906 to 2016) on species pairs of mutualistic aphids and ants (*Table A1* in the *Appendix*). Literature searching was done by using tools including Web of Science, Google Scholar and Goolge. The data such as names of subfamilies, tribes, genera, and species as well as locations of aphids and associated ants were extracted from published researches. Many articles contained only species names and location, so for getting more details about their higher taxa the databases of Aphid Species File (<http://aphid.speciesfile.org>) and AntWeb (<https://www.antweb.org>) were used. These databases provide the complete taxonomic hierarchy of aphids and ants. The validation of species names was also rechecked based on these taxonomic databases. The Aphid Species File contained comprehensive information about aphids from all over the world and provided the taxonomic keys, taxa hierarchy, bibliographic data of aphids from all parts of the world. The AntWeb provides taxonomic keys, taxa hierarchy, specimen records, and natural history information and distribution maps on ants. Up till now, all types of biodiversity data of almost all species has been updated on these databases. The data in these two databases are freely accessible. Other information was fetched from the available published researches in different journals. Distribution localities for available species pairs along with geographical coordinates were compiled and arranged into a database (Microsoft Excel). Species localities were identified from the descriptions of previous literature. The accurate locality data points were collected according to the literature description, google earth and by using the website ([www.findlatitudeandlongitude.com](http://www.findlatitudeandlongitude.com)).

### ***Geographical patterns of species associations***

Latitudes and longitudes of species pairs were plotted on the outline of the World map with the help of Arc Map 10.2 (Geographical Information System, GIS) software. The ecological zones were selected by using the coordinates of temperate (35-66.5°), subtropical (23.5-35°) and tropical (0-23.5°) zones. The coordinates of temperate, subtropical and tropical regions were separated from primary data set. Separated data was plotted according to the coordinates of temperate, tropical and subtropical regions to find out the diversity of aphid-ant interactions in different regions.

### ***Data analysis***

Data analysis was conducted by using correlation test. For percentage of ant-associated aphids, non-parametric Spearman's test (two-tail) was used while for percentage of aphid-associated ants parametric Pearson test (two-tail) was used. To calculate the percentages

of genera and their species, the genera and species of each subfamily was divided by the total genera and species in all subfamilies. The fundamental statistical analysis has been applied to find out the diversity of species pairs in different regions of the world. The bar graphs were developed in Microsoft Excel by using extracted data.

## Results

### *Taxonomic diversity*

#### *Aphid-associated ants*

The percentage of all species numbers failed the normality test, so the non-parametric Spearman's test was used (two-tailed  $P < 0.01$ ) for aphid associated ants. The results showed a positive correlation between the number of aphid species in relation with ant species ( $t = 0.983$ ,  $df = 8$ ,  $P < 0.001$ ). Their patterns can be seen in (Table 1). Subfamily Aphidinae with about 59.85% of total aphid species was found associated with four subfamilies of ants (Table 1). Out of total 83 genera, the genus *Aphis* of subfamily Aphidinae was chiefly associated with 70.5% of ant species (Table 1).

Out of nine genera of subfamily Calaphidinae, genus *Symydobius* were associated with maximum number of ant species from four genera. Among the four genera of subfamily Chaitophorinae, about 81.25% species of the genus *Chaitophorus* were associated with 16 genera of ants. Out of 10 genera of the subfamily Eriosomatinae, the genus *Pemphigus* (only one species) was found supremely associated with 11 genera of ants. Among the eight genera of subfamily Lachninae, about 74.57% species of ants were interacting with the genus *Cinara*. In subfamily Drepanosiphinae the genus *Drepanaphis* having more interactions with ants. Genus *Thelaxes* received more ants than other genera under the subfamily Thelaxinae. For subfamilies Anoeciinae and Saltusaphidinae, only one genus from each was associated with ants (Table 1). Except subfamilies Thelaxinae and Saltusaphidinae, all genera from the other 7 subfamilies were mainly associated with species of ant genus *Formica*.

**Table 1.** The diversity of ant-associated aphids, with the numbers and percentages of aphid genera and species in each subfamily. The information of associated ants for each aphid group are also provided

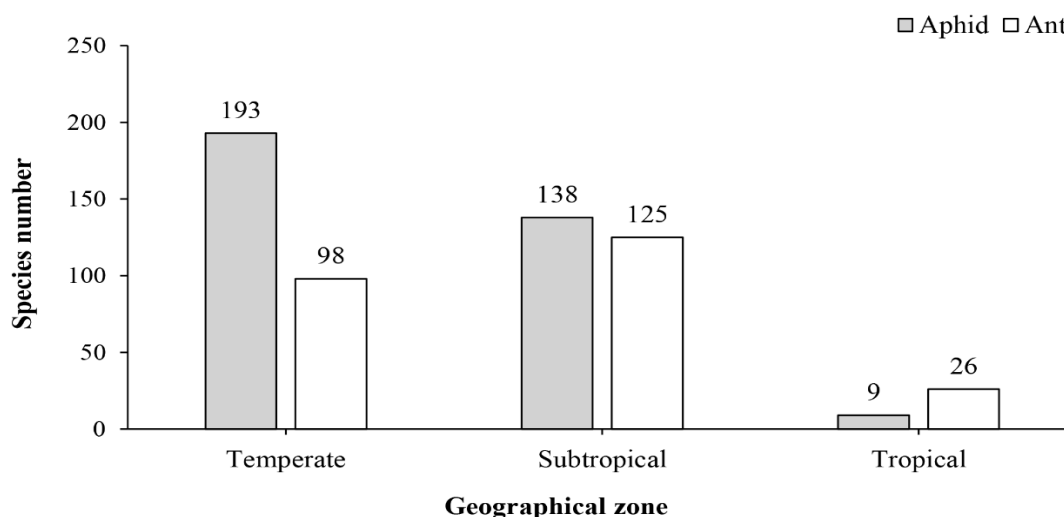
Subfamily name	Aphid				Aphid-associated ant		
	Genus	Genus %	Species	Species %	Subfamily	Genus	Species
Anoeciinae	1	1.204	1	0.352	1	1	2
Aphidinae	46	55.421	170	59.859	4	37	161
Calaphidinae	9	10.843	12	4.225	2	6	15
Chaitophorinae	4	4.819	29	10.211	3	16	53
Drepanosiphinae	2	2.409	3	1.0563	2	3	6
Eriosomatinae	10	12.048	11	3.873	3	11	23
Lachninae	8	9.638	53	18.661	3	14	59
Thelaxinae	2	2.409	4	1.408	3	7	13
Saltusaphidinae	1	1.204	1	0.352	2	2	2
Total	83		284				

### *Ant-associated aphids*

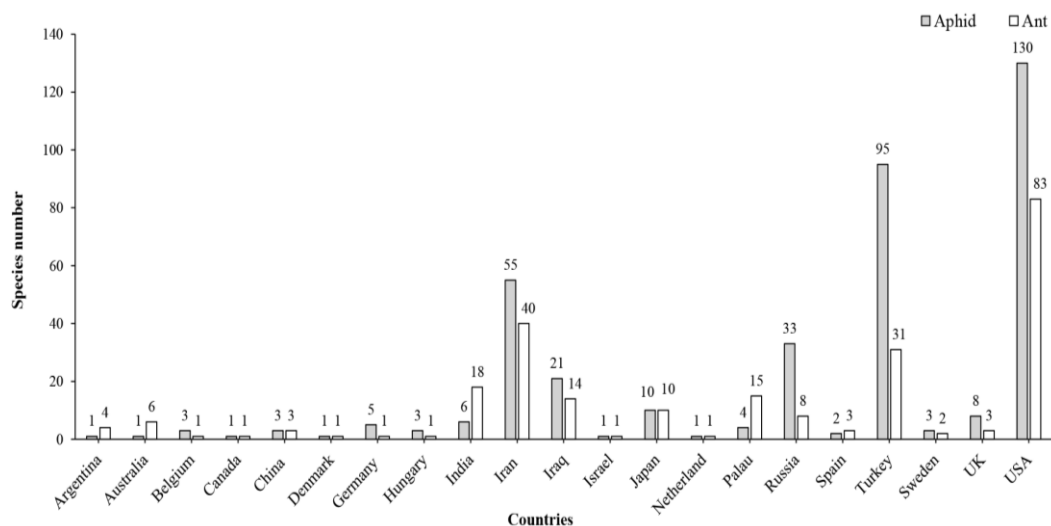
The data was found normal through the normality test, so the parametric Pearson's test was applied (two-tailed  $P < 0.01$ ) for ant-associated aphids. The results showed a positive correlation between the numbers of aphid species and that of ant species ( $t = 0.983$ ,  $df = 3$ ,  $P = 0.009$ ). The data presented graphically in *Table 2*. Out of four ant subfamilies, the Formicinae had maximum associations (66.84% of all) with all nine aphid subfamilies. The genus *Formica* was found highly associated with a maximum number of aphid species. Subfamily Myrmicinae contributes 29.53% of all associations with aphids, and out of the 16 genera associated with aphids, genus *Myrmica* tended maximum aphid species. Genus *Tapinoma* of subfamily Dolichoderinae found higher associations with aphids out of 6 other genera. Only genus *Tetraponera* of subfamily Pseudomyrmecinae interacted with only one species of ant (*Table 2*). Genus *Aphis* was found highly associated with almost all genera of all ant subfamilies.

### *Geographical diversity*

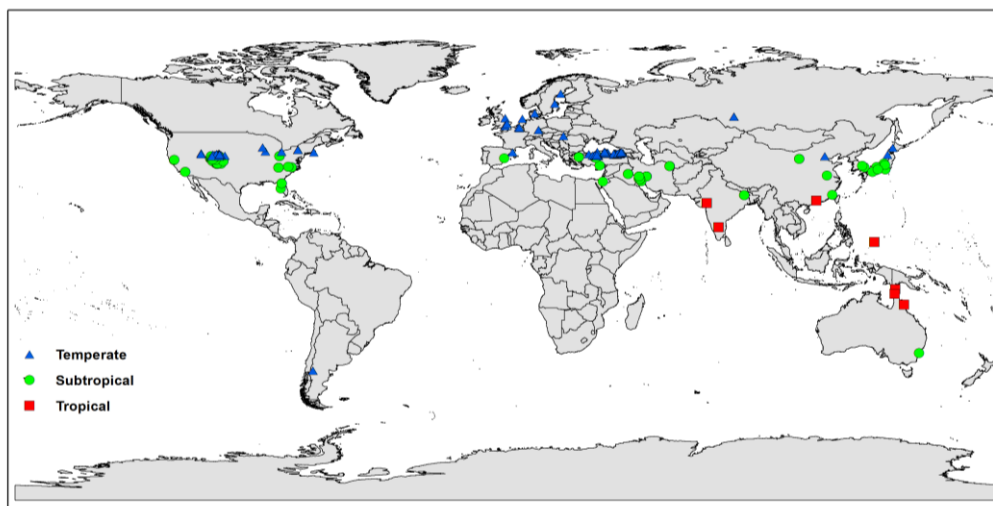
Geographical diversity of species pairs varies in different geographical zones. *Figure 1* showed that the maximum aphid-ant species pairs were in the subtropical region. The ratios of species numbers of aphid to ant in these geographical zones were measured as 1.9:1 in the temperate, 1:2.8 in tropical while nearly equal associations with the ratio 1.1:1 in the subtropical region. In the temperate zone, eight subfamilies of aphids and three subfamilies of ants were associated. Only two aphid subfamilies and three ant subfamilies were associated in the tropical area. Higher associations were found in the subtropical region with eight aphid subfamilies and four ant subfamilies (*Table 3*). All collected information was extracted from 21 countries and the aphid-ant species pairs in each country were measured. In the current database, the USA contained a maximum number of species pairs in both temperate and subtropical zones. The second highest number of species pairs was recorded in Turkey (*Fig. 2*). However, equally associated species pairs were documented from subtropical areas of the world. Overall the patterns of aphid-ant interactions in different ecological zones can be seen in the *Figure 3*.



**Figure 1.** Aphid-ant species pairs in different geographical zones, with the values above bars indicating species numbers of each partner



**Figure 2.** Aphid-ant species pairs in different countries, with the numbers above bars indicating species numbers



**Figure 3.** Distribution map of reported aphid-ant associations. The red square, green circle, and blue triangle indicate associations in the tropical, subtropical and temperate regions, respectively

**Table 2.** The diversity of aphid-associated ants, with the numbers and percentages of ant genera and species in each subfamily. The information of associated aphids for each ant group are also provided

Subfamily name	Ant				Ant-associated aphid		
	Genus	Genus %	Species	Species %	Subfamily	Genus	Species
Dolichoderinae	6	15.789	15	7.772	5	23	50
Formicinae	15	39.473	122	63.212	9	76	261
Myrmicinae	16	42.105	55	28.497	8	30	84
Pseudomyrmecinae	1	2.631	1	0.518	1	1	1
Total	38		193				

**Table 3.** Associated aphid and ant subfamilies in different geographical zones

Tropical		Subtropical		Temperate	
Aphid subfamily	Ant subfamily	Aphid subfamily	Ant subfamily	Aphid subfamily	Ant subfamily
Aphidinae	Dolichoderinae	Aphidinae	Dolichoderinae	Anoeciinae	Dolichoderinae
Eriosomatinae	Formicinae	Calaphidinae	Formicinae	Aphidinae	Formicinae
	Myrmicinae	Chaitophorinae	Myrmicinae	Calaphidinae	Myrmicinae
		Drepanosiphinae	Pseudomyrmecinae	Chaitophorinae	
		Eriosomatinae		Drepanosiphinae	
		Lachninae		Eriosomatinae	
		Saltusaphidinae		Lachninae	
		Theanaxinae		Theanaxinae	

## Discussion

Our data showed that among the 24 subfamilies of Aphididae (Favret, 2018), only nine are myrmecophilous (Table 1). The aphid subfamily Aphidinae has maximum number of associations with ant species, which corresponds well to the total species diversity of this aphid subfamily. Their maximum associations might be due to some ecological traits and population dynamics (Stadler and Dixon, 2005). A large variety of biological components have been projected to account for population-level variance in aphid-ant interactions including local species abundance and composition of aphids (Horvitz and Schemske, 1984). There are total 23 subfamilies of ants, but only six of them are associated with hemipteran insects (Styrsky and Eubanks, 2007). According to previous statistics, only the subfamilies Dolichoderinae, Formicinae and Myrmicinae harvest honeydew from aphids (Nixon, 1951; Stadler and Dixon, 2005). According to this study, four ant subfamilies, Dolichoderinae, Formicinae, Myrmicinae, and Pseudomyrmecinae (Table 2), are involved in aphid-ant interactions. Styrsky and Eubank (2007) indicated that 89% of ants from Formicinae and Myrmicinae involved in ant-hemipteran relationships. In the data we compiled, it is observed that about 92% species of ants from Formicinae and Myrmicinae are associated with aphids. According to the Novgorodova and Gavrilyuk (2012) these subfamilies also have maximum trophobiotic interactions with aphids that have a significant effect on aphido-fauna. However, according to the results of this study few species of subfamilies Dolichoderinae and Pseudomyrmecinae were associated in trophobiotic relationships with aphid. The diversity of the mutualistic interaction of subfamily Formicinae might be due to their abundance and ecological dominance. Some subfamilies were less associated with aphids that might be due to less attention paid on these genera of ants.

Diversity and richness of aphid species was higher than ants in the temperate zone (Dixon et al., 1987; Clua et al., 2004), an aphid-ant species ratio of 1.2:1 indicated their abundance in this region (Figure 1). In the temperate region, one aphid species tended by many ant species such as the Novgorodova and Ryabinin (2017) documented that the aphid species *Symydobius oblongus*, *Chaitophorus populeti*, *Glyphina betulae*, *Aphis fabae*, *A. farinosa*, *A. urticata*, *Rhopalosiphum padi* were associated with 7 to 18 species of ants from temperate areas of Russia. In contrast, ants are exclusively abundant in the tropical zone (Hölldobler and Wilson, 1990; Sarnat et al., 2015). According to current study the aphid-ant species ratios in tropical areas were 1:2.8,

which indicated that the ants are more than half of the aphid species in these regions. For example, a tropical aphid *Cerataphis fransseni* attended by various species of ants (Stadler and Dixon, 2005) indicated the dominance of ants in the tropical region. On the other hand, the aphid-ant species ratio was 1.1:1 in subtropical region, which shows that the diversity of species pairs relatively higher in subtropical than the temperate and tropical regions (*Figure 1*). Most likely the aphids and ants might interact more in subtropical regions which have more favorable conditions for both groups.

The subtropical region consists of a typical warm humid climate with diverse vegetations (e.g. semi-evergreen or semi-deciduous forests, savannah, hardwood forests, pastures, warm temperate moist forests, semi-desert and nemoral deciduous forests) (Prentice et al., 1992; Webb, 2015), which supports the insect and plant biodiversity. Considering aphids are abundant in the temperate zone while ants are most diverse in the tropical, it is suggested that there should be more diverse aphid-ant associations because both groups can interact more in the subtropical zone located between temperate and tropical zones. Geographical species distribution patterns found linear on the borders of temperate and subtropics (*Figure 3*). There might be two possibilities, 1) the diversity of species pairs higher than other regions, and 2) the studies recorded aphid-ant interactions vastly carried out in these regions. However, the current data may also indicate the research on diversity of aphid-ant interactions is still inadequate, which causes an imbalance of information. Therefore, we suggest more future studies should be undertaken to record more associated species of aphids and ants and then we can understand more about their mutualistic relationships.

## Conclusion

Based on a meta-analysis of currently available records of aphid-ant interactions, this study reports that 284 species belonging to the 83 genera of eight aphid subfamilies have mutualistic association with 193 species belonging to 38 genera of four subfamilies of ants. These species support a total of 972 aphid-ant interactions and 915 ant-aphid interactions (one aphid species may associate with many ant species and vice versa). The aphid genus *Aphis* has a highest number of associations with ant species while highest number of aphids are associated with the ant genus *Formica*. Geographically, maximum aphid-ant species pairs were found in subtropical areas of the world. Our results provide a base for identifying general patterns of aphid-ant species pairs in different ecological zones. Besides, more taxonomic and ecological studies are needed to enrich our understanding of the aphid-ant associations.

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**Author contribution.** J.A.S., X. H. conceived and designed the study. J.A.S. performed all the formal analysis. J.L. performed the distribution mapping. J.A.S. and X.Z. collected and compiled the data. X.H. and I.B. reviewed and edited the manuscript.

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## APPENDIX

**Table A1.** Species pairs of mutualistic aphids and ants

Aphid	Associated ant	Reference
<b>Subfamily Aphidinae</b>		
<b>Tribe Aphidini</b>		
<i>Aphis acetosae</i>	<i>Formica cunicularia</i>	Mortazavi et al. (2015)
<i>Aphis aiddletonii</i>	<i>Formica argentea</i>	Jones (1927)
<i>Aphis asclepiadis</i>	<i>Camponotus vicinus</i>	Jones (1927)
	<i>Formica argentea</i>	Jones (1927)
	<i>Formica aserva</i>	Addicott (1979a)
	<i>Formica canadensis</i>	Jones (1927)
	<i>Formica cinerea</i>	Jones (1927), Addicott (1979a)
	<i>Formica fusca</i>	Jones (1927), Addicott (1979a)
	<i>Formica integroides</i>	Addicott (1979a)
	<i>Formica lasioides</i>	Addicott (1979a)
	<i>Formica lepida</i>	Jones (1927)
	<i>Formica montana</i>	Jones (1927)
	<i>Formica neorufibarbis</i>	Addicott (1979a)
	<i>Formica obscuripes</i>	Addicott (1979a)
	<i>Formica opaciventris</i>	Jones (1927)
	<i>Formica podzolica</i>	Mooney and Agrawal (2008), Nielsen et al. (2009), Nielsen et al. (2009), Abdala-Roberts et al. (2012)
	<i>Myrmica incompleta</i>	Jones (1927)
	<i>Myrmica scabrinodis</i>	Jones (1927)
	<i>Myrmica whymperi</i>	Jones (1927)
<i>Pheidole bicarinata</i>	Jones (1927)	
<i>Tapinoma sessile</i>	Jones (1927), Addicott (1979a)	
<i>Aphis aurantii</i>	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)

	<i>Lasius alienus</i>	Akyildirim et al. (2014)
	<i>Lasius turcicus</i>	Akyildirim et al. (2014)
	<i>Plagiolepis taurica</i>	Akyildirim et al. (2014)
<i>Aphis brassicae</i>	<i>Pheidole sp.</i>	Kataria and Kumar (2013)
	<i>Camponotus saxatilis</i>	Novgorodova (2005)
<i>Aphis brohmeri</i>	<i>Formica aquilonia</i>	Novgorodova (2005)
	<i>Formica polyctena</i>	Novgorodova (2005)
	<i>Camponotus aethiops</i>	Özdemir et al. (2008)
<i>Aphis brotericola</i>	<i>Camponotus piceus</i>	Özdemir et al. (2008)
	<i>Formica cunicularia</i>	Akyürek et al. (2016)
<i>Aphis brunellae</i>	<i>Lasius turcicus</i>	Akyürek et al. (2016)
<i>Aphis chloris</i>	<i>Camponotus piceus</i>	Özdemir et al. (2008)
<i>Aphis cinara</i>	<i>Formica lugubris</i>	Sudd (1983)
	<i>Camponotus vitreus</i>	Carver et al. (2003)
	<i>Iridomyrmex hartmeyeri</i>	Carver et al. (2003)
<i>Aphis clerodendri</i>	<i>Notoncus capitatus</i>	Carver et al. (2003)
	<i>Paratrechina vaga</i>	Carver et al. (2003)
	<i>Technomyrmex albipes</i>	Carver et al. (2003)
	<i>Crematogaster lineolata</i>	Favret et al. (2010)
	<i>Formica subsericea</i>	Favret et al. (2010)
<i>Aphis coreopsidis</i>	<i>Linepithema humile</i>	Altfeld and Stiling (2009)
	<i>Paratrechina longicornis</i>	Favret et al. (2010)
	<i>Paratrechina parvula</i>	Favret et al. (2010)
<i>Aphis cornifoliae</i>	<i>Prenolepis imparis</i>	Favret et al. (2010)
<i>Aphis craccae</i>	<i>Lasius niger</i>	Novgorodova (2005)
	<i>Camponotus compressus</i>	Kataria and Kumar (2013), Rakhshan and Ahmad (2015)
	<i>Camponotus invidus</i>	Rakhshan and Ahmad (2015)
	<i>Camponotus kurdistanicus</i>	Sary (1969)
	<i>Camponotus libanicus</i>	Shiran et al. (2013)
	<i>Camponotus oasisium</i>	Shiran et al. (2013)
	<i>Camponotus piceus</i>	Özdemir et al. (2008)
	<i>Cataglyphis aenescens</i>	Özdemir et al. (2008)
	<i>Crematogaster antaris</i>	Shiran et al. (2013)
	<i>Crematogaster inermis</i>	Mortazavi et al. (2015)
<i>Aphis craccivora</i>	<i>Crematogaster schmidti</i>	Mortazavi et al. (2015)
	<i>Crematogaster subdentata</i>	Mortazavi et al. (2015)
	<i>Formica aquilonia</i>	Novgorodova (2005)
	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
	<i>Formica cunicularia</i>	Özdemir et al. (2008), Mortazavi et al. (2015)
	<i>Formica fusca</i>	Akyürek et al. (2016)
	<i>Formica glauca</i>	Özdemir et al. (2008)
	<i>Formica polyctena</i>	Novgorodova (2005)
	<i>Formica pratensis</i>	Novgorodova (2005)
	<i>Lasius brunneus</i>	Akyürek et al. (2016)

	<i>Lasius japonicus</i>	Suzuki (2004), Katayama et al. (2013)
	<i>Lasius niger</i>	Novgorodova (2005), Kataria and Kumar (2013)
	<i>Lasius paralienus</i>	Özdemir et al. (2008), Shiran et al. (2013)
	<i>Lasius turcicus</i>	Akyildirim et al. (2014), Mortazavi et al. (2015)
	<i>Lepisiota bipartite</i>	Shiran et al. (2013)
	<i>Lepisiota frauenfeldi</i>	Rakhshan and Ahmad (2015)
	<i>Meranoplus bicolor</i>	Rakhshan and Ahmad (2015)
	<i>Monomorium destructor</i>	Shiran et al. (2013)
	<i>Monomorium latinode</i>	Rakhshan and Ahmad (2015)
	<i>Monomorium mayri</i>	Shiran et al. (2013)
	<i>Monomorium minimum</i>	Kataria and Kumar (2013)
	<i>Monomorium nitidiventre</i>	Mortazavi et al. (2015)
	<i>Monomorium pharaonis</i>	Rakhshan and Ahmad (2015)
	<i>Nylanderia fulva</i>	Sharma and Buss (2013)
	<i>Paratrechina longicornis</i>	Shiran et al. (2013), Rakhshan and Ahmad (2015)
	<i>Pheidole teneriffana</i>	Shiran et al. (2013)
	<i>Plagiolepis pallelescens</i>	Özdemir et al. (2008), Shiran et al. (2013)
	<i>Plagiolepis pygmaea</i>	Mortazavi et al. (2015)
	<i>Polyrhachis hauxwelli</i>	Rakhshan and Ahmad (2015)
	<i>Polyrhachis lacteipennis</i>	Shiran et al. (2013)
	<i>Pristomyrmex punctatus</i>	Katayama et al. (2013)
	<i>Tapinoma erraticum</i>	Mortazavi et al. (2015)
	<i>Tapinoma simrothi</i>	Sztybel (1969), Shiran et al. (2013)
	<i>Tetramorium chefteki</i>	Özdemir et al. (2008), Mortazavi et al. (2015)
	<i>Tetramorium forte</i>	Özdemir et al. (2008)
	<i>Tetramorium tsushimae</i>	Suzuki (2004), Katayama et al. (2013), Hayashi et al. (2015), Hayashi et al. (2016)
	<i>Tetraoponera rufonigra</i>	Rakhshan and Ahmad (2015)
<i>Aphis davletshinae</i>	<i>Pheidole pallidula</i>	Shiran et al. (2013)
	<i>Tapinoma simrothi</i>	Shiran et al. (2013)
<i>Aphis esulae</i>	<i>Formica fusca</i>	Akyürek et al. (2016)
<i>Aphis euphorbiae</i>	<i>Camponotus piceus</i>	Özdemir et al. (2008)
<i>Aphis evonymi</i>	<i>Formica aquilonia</i>	Novgorodova (2005)
	<i>Formica polyctena</i>	Novgorodova (2005)
<i>Aphis fabae</i>	<i>Camponotus aethiops</i>	Akyürek et al. (2016)
	<i>Camponotus compressus</i>	Kataria and Kumar (2013)
	<i>Camponotus piceus</i>	Özdemir et al. (2008)
	<i>Camponotus saxatilis</i>	Novgorodova (2005)
	<i>Cataglyphis lividus</i>	Shiran et al. (2013)
	<i>Cremastogaster scutellaris</i>	Akyürek et al. (2016)
	<i>Crematogaster lineolata</i>	Favret et al. (2010)
	<i>Formica aquilonia</i>	Novgorodova (2005)
	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)

	<i>Formica cunicularia</i>	Akyürek et al. (2016)
	<i>Formica fusca</i>	Akyildirim et al. (2014)
	<i>Formica polyctena</i>	Novgorodova (2005)
	<i>Lasius alienus</i>	Akyildirim et al. (2014), Akyürek et al. (2016)
	<i>Lasius brunneus</i>	Akyürek et al. (2016)
	<i>Lasius emarginatus</i>	Akyildirim et al. (2014)
	<i>Lasius niger</i>	Liepert and Dettner (1993), Volkl et al. (1999), Offenberg (2001), Woodring et al. (2004), Fischer et al. (2005), Detrain et al. (2010), Sanders et al. (2010), Tegelaar et al. (2012), Tegelaar et al. (2013), Fischer et al. (2015), Tegelaar (2015), Vantaux et al. (2015)
	<i>Lasius paralienus</i>	Özdemir et al. (2008), Shiran et al. (2013)
	<i>Lasius turcicus</i>	Akyildirim et al. (2014), Akyürek et al. (2016)
	<i>Lepisiota bipartite</i>	Shiran et al. (2013)
	<i>Lepisiota nigra</i>	Mortazavi et al. (2015)
	<i>Monomorium libanicum</i>	Shiran et al. (2013)
	<i>Monomorium mayri</i>	Shiran et al. (2013)
	<i>Monomorium minimum</i>	Kataria and Kumar (2013)
	<i>Monomorium qarahe</i>	Shiran et al. (2013)
	<i>Myrmica ruginodis</i>	Akyildirim et al. (2014)
	<i>Plagiolepis pallescens</i>	Shiran et al. (2013)
	<i>Plagiolepis pygmaea</i>	Akyürek et al. (2016)
	<i>Prenolepis imparis</i>	Favret et al. (2010)
	<i>Tapinoma erraticum</i>	Mortazavi et al. (2015)
	<i>Tapinoma simrothi</i>	Sary (1969), Shiran et al. (2013)
	<i>Tetramorium caespitum</i>	Shiran et al. (2013), Akyildirim et al. (2014)
	<i>Tetramorium tsushimae</i>	Hayashi et al. (2015)
	<i>Formica glauca</i>	Özdemir et al. (2008)
<i>Aphis farinosa</i>	<i>Crematogaster antaris</i>	Shiran et al. (2013)
	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
	<i>Formica fusca</i>	Jones (1927)
	<i>Formica gagates</i>	Akyildirim et al. (2014)
	<i>Formica integroides</i>	Addicott (1978)
	<i>Lasius turcicus</i>	Akyildirim et al. (2014)
	<i>Myrmica whymperi</i>	Jones (1927)
	<i>Tetramorium caespitum</i>	Akyildirim et al. (2014)
<i>Aphis forbesi</i>	<i>Formica cinerea</i>	Jones (1927)
	<i>Myrmecina graminicola</i>	Jones (1927)
	<i>Myrmica scabrinodis</i>	Jones (1927)
<i>Aphis frangulae</i>	<i>Camponotus oasisium</i>	Shiran et al. (2013)
	<i>Cataglyphis nodus</i>	Shiran et al. (2013)
	<i>Crematogaster antaris</i>	Shiran et al. (2013)
	<i>Lasius paralienus</i>	Shiran et al. (2013)
	<i>Lepisiota bipartite</i>	Shiran et al. (2013)
	<i>Monomorium destructor</i>	Shiran et al. (2013)

	<i>Monomorium libanicum</i>	Shiran et al. (2013)
	<i>Monomorium mayri</i>	Shiran et al. (2013)
	<i>Monomorium qarahe</i>	Shiran et al. (2013)
	<i>Pheidole pallidula</i>	Shiran et al. (2013)
	<i>Plagiolepis pallescens</i>	Shiran et al. (2013)
	<i>Polyrhachis lacteipennis</i>	Shiran et al. (2013)
	<i>Tapinoma simrothi</i>	Shiran et al. (2013)
<i>Aphis galliiscabri</i>	<i>Formica glauca</i>	Özdemir et al. (2008)
	<i>Lasius alienus</i>	Özdemir et al. (2008)
	<i>Lasius paralienus</i>	Özdemir et al. (2008)
<i>Aphis gerardianae</i>	<i>Plagiolepis pygmaea</i>	Akyürek et al. (2016)
<i>Aphis gossypii</i>	<i>Anoplolepis gracilipes</i>	Idechiil et al. (2007)
	<i>Camponotus compressus</i>	Vergheze and Tandon (1987), Kataria and Kumar (2013), Lokeshwari et al. (2015)
	<i>Camponotus parius</i>	Lokeshwari et al. (2015)
	<i>Camponotus reticulatus</i>	Idechiil et al. (2007)
	<i>Cataglyphis nodus</i>	Sztybel (1969)
	<i>Crematogaster inermis</i>	Mortazavi et al. (2015)
	<i>Crematogaster lineolata</i>	Favret et al. (2010)
	<i>Formica argentea</i>	Jones (1927)
	<i>Formica cinerea</i>	Jones (1927)
	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
	<i>Formica fusca</i>	Jones (1927)
	<i>Iridomyrmex anceps</i>	Idechiil et al. (2007)
	<i>Lasius alienus</i>	Akyildirim et al. (2014), Akyürek et al. (2016)
	<i>Lasius emarginatus</i>	Akyildirim et al. (2014)
	<i>Lasius niger</i>	Kaneko (2003)
	<i>Lasius paralienus</i>	Özdemir et al. (2008)
	<i>Lasius turcicus</i>	Akyildirim et al. (2014), Akyürek et al. (2016)
	<i>Lepisiota nigra</i>	Mortazavi et al. (2015)
	<i>Linepithema humile</i>	Powell and Silverman (2010), Tena et al. (2013), LeVan and Holway (2015)
	<i>Lophomyrmex quadrispinosus</i>	Lokeshwari et al. (2015)
	<i>Monomorium floricola</i>	Idechiil et al. (2007)
	<i>Monomorium minimum</i>	Kataria and Kumar (2013)
	<i>Monomorium monomorium</i>	Idechiil et al. (2007)
	<i>Myrmica incompleta</i>	Jones (1927)
	<i>Myrmica brunnea</i>	Lokeshwari et al. (2015)
	<i>Paratrechina bourbonica</i>	Idechiil et al. (2007)
	<i>Paratrechina longicornis</i>	Idechiil et al. (2007), Lokeshwari et al. (2015)
	<i>Pheidole fervens</i>	Idechiil et al. (2007)
	<i>Plagiolepis pygmaea</i>	Akyürek et al. (2016)
	<i>Pristomyrmex pungens</i>	Kaneko (2003)
	<i>Solenopsis geminata</i>	Idechiil et al. (2007), Lokeshwari et al. (2015)
	<i>Tapinoma erraticum</i>	Mortazavi et al. (2015)

	<i>Tapinoma indicum</i>	Lokeshwari et al. (2015)
	<i>Tapinoma melanocephalum</i>	Idechiil et al. (2007), Lokeshwari et al. (2015)
	<i>Tapinoma sessile</i>	Powell and Silverman (2010)
	<i>Tapinoma simrothi</i>	Stary (1969)
	<i>Technomyrmex albipes</i>	Idechiil et al. (2007), Lokeshwari et al. (2015)
	<i>Tetramorium bicarinatum</i>	Idechiil et al. (2007)
	<i>Tetramorium caespitum</i>	Akyildirim et al. (2014)
<i>Aphis helianthi</i>	<i>Formica fusca</i>	Mooney et al. (2015)
	<i>Formica rufa</i>	Mooney et al. (2015)
	<i>Tapinoma sessile</i>	Mooney et al. (2015)
<i>Aphis hermistonii</i>	<i>Formica fusca</i>	Jones (1927)
<i>Aphis hillerislambersi</i>	<i>Lasius brunneus</i>	Akyürek et al. (2016)
<i>Aphis idaei</i>	<i>Lasius alienus</i>	Stary (1969)
	<i>Lasius niger</i>	Novgorodova (2005)
<i>Aphis illinoisensis</i>	<i>Myrmica punctiventris</i>	Favret et al. (2010)
<i>Aphis impatientis</i>	<i>Lasius emarginatus</i>	Akyildirim et al. (2014)
<i>Aphis jacobaeae</i>	<i>Formica aquilonia</i>	Novgorodova (2005)
	<i>Formica polyctena</i>	Novgorodova (2005)
	<i>Lasius niger</i>	Vrieling et al. (1991), Müller and Godfray (1999)
	<i>Myrmica ruginodis</i>	Müller and Godfray (1999)
<i>Aphis longituba</i>	<i>Lasius emarginatus</i>	Akyildirim et al. (2014)
<i>Aphis lugentis</i>	<i>Camponotus herculeanus</i>	Jones (1927)
	<i>Camponotus modoc</i>	Jones (1927)
	<i>Dorymyrmex pyramicus</i>	Jones (1927)
	<i>Formica argentea</i>	Jones (1927)
	<i>Formica canadensis</i>	Jones (1927)
	<i>Formica efiniventris</i>	Jones (1927)
	<i>Formica fusca</i>	Jones (1927)
	<i>Myrmica punctiventris</i>	Favret et al. (2010)
	<i>Tapinoma sessile</i>	Favret et al. (2010)
<i>Aphis maculatae</i>	<i>Formica fusca</i>	Jones (1927)
<i>Aphis maidiradicis</i>	<i>Lasius alienus</i>	Forbes (1906)
<i>Aphis medicaginis</i>	<i>Formica argentea</i>	Jones (1927)
	<i>Formica canadensis</i>	Jones (1927)
	<i>Formica cinerea</i>	Jones (1927)
	<i>Formica fusca</i>	Jones (1927)
	<i>Formica opaciventris</i>	Jones (1927)
	<i>Formica rufa</i>	Jones (1927)
	<i>Myrmica incompleta</i>	Jones (1927)
<i>Aphis middletonii</i>	<i>Lasius brunneus</i>	Akyürek et al. (2016)
<i>Aphis molluginis</i>	<i>Lasius alienus</i>	Akyildirim et al. (2014)
<i>Aphis nasturtii</i>	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
	<i>Formica cunicularia</i>	Akyürek et al. (2016)
	<i>Lasius alienus</i>	Özdemir et al. (2008)



	<i>Lasius brunneus</i>	Akyürek et al. (2016)
	<i>Lasius emarginatus</i>	Akyildirim et al. (2014)
	<i>Lepisiota bipartite</i>	Shiran et al. (2013)
	<i>Tapinoma simrothi</i>	Shiran et al. (2013)
<i>Aphis nerii</i>	<i>Camponotus compressus</i>	Kataria and Kumar (2013)
	<i>Iridomyrmex humilis</i>	Bristow (1991)
	<i>Lepisiota bipartite</i>	Shiran et al. (2013)
	<i>Linepithema humile</i>	Pringle et al. (2014)
	<i>Monomorium gracillimum</i>	Sary (1969)
	<i>Monomorium mayri</i>	Shiran et al. (2013)
	<i>Monomorium minimum</i>	Kataria and Kumar (2013)
	<i>Pheidole pallidula</i>	Sary (1969)
	<i>Tapinoma simrothi</i>	Shiran et al. (2013)
<i>Aphis oenotherae</i>	<i>Formica fusca</i>	Jones (1927)
	<i>Myrmica whympersi</i>	Jones (1927)
<i>Aphis oregonensis</i>	<i>Formica montana</i>	Jones (1927)
<i>Aphis parietariae</i>	<i>Lepisiota bipartite</i>	Shiran et al. (2013)
<i>Aphis polygonata</i>	<i>Monomorium mayri</i>	Shiran et al. (2013)
<i>Aphis pomi</i>	<i>Cremastogaster scutellaris</i>	Akyürek et al. (2016)
	<i>Formica aquilonia</i>	Novgorodova (2005)
	<i>Formica canadensis</i>	Jones (1927)
	<i>Formica cinerea</i>	Jones (1927)
	<i>Formica cunicularia</i>	Novgorodova (2005)
	<i>Formica fusca</i>	Jones (1927)
	<i>Formica polyctena</i>	Novgorodova (2005)
	<i>Formica rufibarbis</i>	Akyildirim et al. (2014)
	<i>Lasius alienus</i>	Akyürek et al. (2016)
	<i>Lasius brunneus</i>	Akyürek et al. (2016)
	<i>Lasius niger</i>	Novgorodova (2005)
	<i>Lasius turcicus</i>	Akyürek et al. (2016)
	<i>Myrmica incompleta</i>	Jones (1927)
	<i>Tapinoma erraticum</i>	Mortazavi et al. (2015)
	<i>Tapinoma simrothi</i>	Sary (1969)
<i>Aphis populicola</i>	<i>Myrmica incompleta</i>	Jones (1927)
<i>Aphis pseudocardui</i>	<i>Crematogaster inermis</i>	Mortazavi et al. (2015)
	<i>Crematogaster schmidti</i>	Mortazavi et al. (2015)
	<i>Lasius alienus</i>	Akyürek et al. (2016)
<i>Aphis punicae</i>	<i>Lepisiota bipartite</i>	Shiran et al. (2013)
	<i>Tapinoma simrothi</i>	Sary (1969)
<i>Aphis rumicis</i>	<i>Lasius paralienus</i>	Özdemir et al. (2008)
	<i>Tetramorium chefteki</i>	Özdemir et al. (2008)
	<i>Tetramorium forte</i>	Özdemir et al. (2008)
	<i>Myrmica incompleta</i>	Jones (1927)
	<i>Myrmica whympersi</i>	Jones (1927)
	<i>Tapinoma simrothi</i>	Shiran et al. (2013)

<i>Aphis salicariae</i>	<i>Camponotus herculeanus</i>	Addicott (1979a)
	<i>Formica aserva</i>	Addicott (1979a)
	<i>Formica cinerea</i>	Addicott (1979a)
	<i>Formica fusca</i>	Addicott (1979a), Mooney et al. (2015)
	<i>Formica integroides</i>	Addicott (1979a)
	<i>Formica lasioides</i>	Addicott (1979a)
	<i>Formica neorufibarbis</i>	Addicott (1979a)
	<i>Formica obscuripes</i>	Addicott (1979a)
	<i>Formica puberula</i>	Addicott (1979a)
	<i>Formica rufa</i>	Mooney et al. (2015)
	<i>Tapinoma erraticum</i>	Mortazavi et al. (2015)
	<i>Tapinoma sessile</i>	Addicott (1979a), Mooney et al. (2015)
<i>Aphis salviae</i>	<i>Camponotus aethiops</i>	Özdemir et al. (2008)
	<i>Camponotus piceus</i>	Özdemir et al. (2008)
	<i>Tetramorium caespitum</i>	Akyürek et al. (2016)
<i>Aphis sambuci</i>	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
	<i>Lasius turcicus</i>	Akyildirim et al. (2014)
<i>Aphis sambucifolii</i>	<i>Formica argentea</i>	Jones (1927)
<i>Aphis serpylli</i>	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
<i>Aphis solanella</i>	<i>Formica cunicularia</i>	Akyürek et al. (2016)
	<i>Lasius alienus</i>	Akyürek et al. (2016)
<i>Aphis spiraecola</i>	<i>Camponotus lateralis</i>	Akyürek et al. (2016)
	<i>Cremastogaster scutellaris</i>	Akyürek et al. (2016)
	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
	<i>Formica cunicularia</i>	Akyürek et al. (2016)
	<i>Formica rufibarbis</i>	Akyürek et al. (2016)
	<i>Lasius brunneus</i>	Akyürek et al. (2016)
	<i>Lasius emarginatus</i>	Akyildirim et al. (2014)
	<i>Lasius turcicus</i>	Akyildirim et al. (2014), Akyürek et al. (2016)
	<i>Linepithema humile</i>	Tena et al. (2013)
	<i>Plagiolepis pygmaea</i>	Akyürek et al. (2016)
	<i>Plagiolepis taurica</i>	Akyildirim et al. (2014)
<i>Tetramorium caespitum</i>	Akyürek et al. (2016)	
<i>Aphis subnitidae</i>	<i>Formica aquilonia</i>	Novgorodova (2005)
	<i>Formica polyctena</i>	Novgorodova (2005)
<i>Aphis ulmariae</i>	<i>Formica argentea</i>	Jones (1927)
<i>Aphis umbrella</i>	<i>Lasius paralienus</i>	Shiran et al. (2013)
	<i>Lepisiota bipartite</i>	Shiran et al. (2013)
	<i>Pheidole pallidula</i>	Shiran et al. (2013)
	<i>Pheidole teneriffana</i>	Shiran et al. (2013)
	<i>Tapinoma simrothi</i>	Shiran et al. (2013)
<i>Aphis urticata</i>	<i>Lasius alienus</i>	Akyürek et al. (2016)
<i>Aphis valerianae</i>	<i>Camponotus herculeanus</i>	Jones (1927)
	<i>Camponotus vicinus</i>	Jones (1927)
	<i>Formica canadensis</i>	Jones (1927)

	<i>Formica podzolica</i>	Petry et al. (2012)
	<i>Formica rufa</i>	Jones (1927)
<i>Aphis vandergooti</i>	<i>Lasius niger</i>	Woodring et al. (2004)
	<i>Camponotus herculeanus</i>	Addicott (1979a)
	<i>Formica aserva</i>	Addicott (1979a)
	<i>Formica cinerea</i>	Addicott (1978), Addicott (1979a), Breton and Addicott (1992)
	<i>Formica fusca</i>	Addicott (1978), Addicott (1979a), Mooney et al. (2015)
<i>Aphis varians</i>	<i>Formica integroides</i>	Addicott (1978), Addicott (1979a)
	<i>Formica lasioides</i>	Addicott (1978), Addicott (1979a)
	<i>Formica neorufibarbis</i>	Addicott (1979a)
	<i>Formica obscuripes</i>	Addicott (1978), Addicott (1979a)
	<i>Formica puberula</i>	Addicott (1979a)
	<i>Formica rufa</i>	Mooney et al. (2015)
	<i>Tapinoma sessile</i>	Addicott (1979a), Mooney et al. (2015)
	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
<i>Aphis verbasci</i>	<i>Lasius alienus</i>	Özdemir et al. (2008), Akyürek et al. (2016)
<i>Aphis vernoniae</i>	<i>Nylanderia fulva</i>	Sharma and Buss (2013)
	<i>Formica aquilonia</i>	Novgorodova (2005)
<i>Aphis viburni</i>	<i>Lasius niger</i>	Novgorodova (2005)
<i>Brachyonguis harmalae</i>	<i>Tapinoma simrothi</i>	Shiran et al. (2013)
<i>Brachyonguis tamaricophilus</i>	<i>Tapinoma simrothi</i>	Shiran et al. (2013)
<i>Brachyunguis tamaricis</i>	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
<i>Brachyunguis tetrapteralis</i>	<i>Formica fusca</i>	Jones (1927)
	<i>Formica argentea</i>	Jones (1927)
<i>Braggia eriogoni</i>	<i>Formica fusca</i>	Jones (1927)
	<i>Lepisiota nigra</i>	Mortazavi et al. (2015)
<i>Hyalopterus amygdali</i>	<i>Monomorium mayri</i>	Shiran et al. (2013)
	<i>Plagiolepis pallelescens</i>	Shiran et al. (2013)
	<i>Lasius brunneus</i>	Akyürek et al. (2016)
	<i>Lasius paralienus</i>	Shiran et al. (2013)
<i>Hyalopterus pruni</i>	<i>Lepisiota bipartite</i>	Shiran et al. (2013)
	<i>Pogonomyrmex occidentalis</i>	Jones (1927)
	<i>Tapinoma simrothi</i>	Stary (1969)
	<i>Camponotus navigator</i>	Idechiil et al. (2007)
<i>Hysteroneura setariae</i>	<i>Tapinoma melanocephalum</i>	Idechiil et al. (2007)
	<i>Technomyrmex albipes</i>	Idechiil et al. (2007)
	<i>Camponotus vicinus</i>	Jones (1927)
	<i>Formica cinerea</i>	Jones (1927)
<i>Protaphis middletonii</i>	<i>Formica fusca</i>	Jones (1927)
	<i>Myrmica incompleta</i>	Jones (1927)
<i>Protaphis terricola</i>	<i>Lasius turcicus</i>	Özdemir et al. (2008)
<i>Rhopalosiphum cerasifoliae</i>	<i>Lasius alienus</i>	Favret et al. (2010)
<i>Rhopalosiphum maidis</i>	<i>Formica cinerea</i>	Jones (1927)

	<i>Formica fusca</i>	Jones (1927)
	<i>Lasius alienus</i>	Barton and Ives (2014)
	<i>Lepisiota bipartite</i>	Shiran et al. (2013)
	<i>Monomorium mayri</i>	Shiran et al. (2013)
	<i>Monomorium qarahe</i>	Shiran et al. (2013)
	<i>Myrmica incompleta</i>	Jones (1927)
	<i>Polyrhachis lacteipennis</i>	Shiran et al. (2013)
	<i>Prenolepis imparis</i>	Barton and Ives (2014)
	<i>Tapinoma simrothi</i>	Stary (1969)
<i>Rhopalosiphum nymphaeae</i>	<i>Formica argentea</i>	Jones (1927)
	<i>Formica aserva</i>	Jones (1927)
	<i>Formica bradleyi</i>	Jones (1927)
	<i>Formica coloradensis</i>	Jones (1927)
	<i>Formica gnava</i>	Jones (1927)
	<i>Formica incerta</i>	Jones (1927)
	<i>Formica integroides</i>	Jones (1927)
	<i>Formica lasioides</i>	Jones (1927)
	<i>Formica lepida</i>	Jones (1927)
	<i>Formica limata</i>	Jones (1927)
	<i>Formica munda</i>	Jones (1927)
	<i>Formica neoclara</i>	Jones (1927)
	<i>Formica neogagates</i>	Jones (1927)
	<i>Formica neorufibarbis</i>	Jones (1927)
	<i>Formica obscuripes</i>	Jones (1927)
	<i>Formica oreas</i>	Jones (1927)
	<i>Formica puberula</i>	Jones (1927)
	<i>Formica ravidia</i>	Jones (1927)
	<i>Formica rubicunda</i>	Jones (1927)
	<i>Formica rufa</i>	Jones (1927)
	<i>Formica sanguinea</i>	Jones (1927)
	<i>Formica subaenescens</i>	Jones (1927)
	<i>Formica subintegra</i>	Jones (1927)
	<i>Formica subsericea</i>	Jones (1927)
	<i>Formica ulkei</i>	Jones (1927)
	<i>Lasius alienus</i>	Jones (1927)
	<i>Lasius claviger</i>	Jones (1927)
	<i>Lasius latipes</i>	Jones (1927)
	<i>Lasius nearcticus</i>	Jones (1927)
	<i>Lasius neoniger</i>	Jones (1927)
	<i>Lasius pallitarsis</i>	Jones (1927)
	<i>Leptothorax muscorum</i>	Jones (1927)
<i>Liometopum luctuosum</i>	Jones (1927)	
<i>Liometopum occidentale</i>	Jones (1927)	
<i>Monomorium minimum</i>	Jones (1927)	
<i>Rhopalosiphum padi</i>	<i>Formica aquilonia</i>	Novgorodova (2005)

	<i>Formica polyctena</i>	Novgorodova (2005)
	<i>Lepisiota bipartite</i>	Shiran et al. (2013)
	<i>Tapinoma simrothi</i>	Shiran et al. (2013)
<i>Sanbornia juniperi</i>	<i>Nylanderia fulva</i>	Sharma and Buss (2013)
<i>Schizaphis gramina</i>	<i>Formica aquilonia</i>	Novgorodova (2005)
	<i>Formica polyctena</i>	Novgorodova (2005)
<i>Schizaphis graminum</i>	<i>Camponotus herculeanus</i>	Jones (1927)
<i>Schizaphis miscanthi</i>	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
<i>Schizaphis nigerrima</i>	<i>Lepisiota nigra</i>	Mortazavi et al. (2015)
<i>Schizaphis pyri</i>	<i>Formica aquilonia</i>	Novgorodova (2005)
	<i>Formica polyctena</i>	Novgorodova (2005)
	<i>Lasius brunneus</i>	Akyürek et al. (2016)
<b>Tribe Macrosiphini</b>		
<i>Acyrtosiphon gossypii</i>	<i>Crematogaster inermis</i>	Mortazavi et al. (2015)
	<i>Lasius turcicus</i>	Mortazavi et al. (2015)
<i>Acyrtosiphon pisum</i>	<i>Crematogaster inermis</i>	Mortazavi et al. (2015)
	<i>Formica cunicularia</i>	Mortazavi et al. (2015)
	<i>Lasius turcicus</i>	Akyildirim et al. (2014), Akyürek et al. (2016)
	<i>Lepisiota dolabellae</i>	Mortazavi et al. (2015)
	<i>Plagiolepis pallelescens</i>	Mortazavi et al. (2015)
<i>Acyrtosiphon rubi</i>	<i>Formica cunicularia</i>	Mortazavi et al. (2015)
<i>Anuraphis subterranea</i>	<i>Formica argentea</i>	Jones (1927)
	<i>Formica fusca</i>	Jones (1927)
<i>Aphthargelia symphoricarpi</i>	<i>Formica cinerea</i>	Addicott (1978)
<i>Artemisaphis artemisicola</i>	<i>Formica fusca</i>	Jones (1927)
	<i>Myrmica incompleta</i>	Jones (1927)
<i>Aulacorthum solani</i>	<i>Formica subsericea</i>	Favret et al. (2010)
<i>Bipersona torticauda</i>	<i>Camponotus vicinus</i>	Jones (1927)
	<i>Formica altipetens</i>	Jones (1927)
	<i>Formica argentea</i>	Jones (1927)
	<i>Formica cinerea</i>	Jones (1927)
	<i>Formica fusca</i>	Jones (1927)
	<i>Tapinoma sessile</i>	Jones (1927)
<i>Brachcaudus helicrysi</i>	<i>Camponotus aethiops</i>	Özdemir et al. (2008)
<i>Brachycaudus amygdalinus</i>	<i>Lasius turcicus</i>	Mortazavi et al. (2015)
	<i>Proformica pilosiscapa</i>	Mortazavi et al. (2015)
	<i>Tapinoma erraticum</i>	Mortazavi et al. (2015)
<i>Brachycaudus cardui</i>	<i>Brachymyrmex patagonica</i>	Lescano et al. (2015)
	<i>Camponotus aethiops</i>	Özdemir et al. (2008), Akyürek et al. (2016)
	<i>Crematogaster sordidula</i>	Özdemir et al. (2008), Mortazavi et al. (2015)
	<i>Dorymyrmex tener</i>	Lescano et al. (2015)
	<i>Dorymyrmex wolffuegeli</i>	Lescano et al. (2015)
	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
	<i>Formica fusca</i>	Jones (1927), Akyildirim et al. (2014)

	<i>Formica glauca</i>	Özdemir et al. (2008)
	<i>Formica rufa</i>	Jones (1927)
	<i>Lasius alienus</i>	Akyürek et al. (2016)
	<i>Lasius brunneus</i>	Akyürek et al. (2016)
	<i>Lasius emarginatus</i>	Akyildirim et al. (2014)
	<i>Lasius niger</i>	Volkl et al. (1999), Müller and Godfray (1999), Woodring et al. (2004)
	<i>Lasius paralienus</i>	Özdemir et al. (2008)
	<i>Lasius turcicus</i>	Akyildirim et al. (2014), Akyürek et al. (2016)
	<i>Myrmica incompleta</i>	Jones (1927)
	<i>Myrmica ruginodis</i>	Müller and Godfray (1999), Akyildirim et al. (2014)
	<i>Plagiolepis pygmaea</i>	Akyürek et al. (2016)
	<i>Solenopsis richteri</i>	Lescano et al. (2015)
	<i>Tapinoma sessile</i>	Jones (1927)
	<i>Tapinoma simrothi</i>	Stary (1969)
	<i>Tetramorium caespitum</i>	Akyürek et al. (2016)
	<i>Tetramorium forte</i>	Akyildirim et al. (2014)
<i>Brachycaudus helichrysi</i>	<i>Aphaenogaster kurdica</i>	Mortazavi et al. (2015)
	<i>Formica cinerea</i>	Jones (1927)
	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
	<i>Lasius turcicus</i>	Akyürek et al. (2016)
	<i>Lepisiota nigra</i>	Mortazavi et al. (2015)
	<i>Myrmica scabrinodis</i>	Akyildirim et al. (2014)
	<i>Tapinoma simrothi</i>	Shiran et al. (2013)
<i>Brachycaudus lychnidis</i>	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
<i>Brachycaudus persicae</i>	<i>Formica fusca</i>	Jones (1927)
	<i>Myrmica scabrinodis</i>	Jones (1927)
<i>Brachycaudus prunicola</i>	<i>Myrmica incompleta</i>	Jones (1927)
<i>Brachycaudus schwartzi</i>	<i>Lasius emarginatus</i>	Akyildirim et al. (2014)
	<i>Crematogaster inermis</i>	Mortazavi et al. (2015)
	<i>Formica cunicularia</i>	Mortazavi et al. (2015)
	<i>Lepisiota dolabellae</i>	Mortazavi et al. (2015)
	<i>Lepisiota nigra</i>	Mortazavi et al. (2015)
	<i>Plagiolepis pallescens</i>	Mortazavi et al. (2015)
	<i>Tapinoma erraticum</i>	Mortazavi et al. (2015)
	<i>Formica glauca</i>	Özdemir et al. (2008)
<i>Capitophorus elaeagni</i>	<i>Crematogaster lineolata</i>	Favret et al. (2010)
	<i>Prenolepis imparis</i>	Favret et al. (2010)
<i>Capitophorus hippophaes</i>	<i>Lasius alienus</i>	Özdemir et al. (2008)
<i>Capitophorus inulae</i>	<i>Tapinoma simrothi</i>	Shiran et al. (2013)
<i>Ceruraphis viburnicola</i>	<i>Formica fusca</i>	Jones (1927)
<i>Chaetosiphon tetraerhodum</i>	<i>Lasius turcicus</i>	Akyildirim et al. (2014)
<i>Colorado absinthiella</i>	<i>Tapinoma simrothi</i>	Shiran et al. (2013)

<i>Cryptomyzus ribis</i>	<i>Formica argentea</i>	Jones (1927)
	<i>Formica fusca</i>	Jones (1927)
	<i>Myrmica scabrinodis</i>	Jones (1927)
<i>Diuraphis calamagrostis</i>	<i>Formica cinerea</i>	Jones (1927)
<i>Dysaphis devectora</i>	<i>Formica rufibarbis</i>	Akyürek et al. (2016)
<i>Dysaphis foeniculus</i>	<i>Lasius alienus</i>	Akyürek et al. (2016)
<i>Dysaphis plantaginea</i>	<i>Lasius brunneus</i>	Akyürek et al. (2016)
	<i>Lasius niger</i>	Nagy et al. (2015)
<i>Dysaphis pyri</i>	<i>Lasius alienus</i>	Akyildirim et al. (2014)
<i>Dysaphis sorbi</i>	<i>Formica fusca</i>	Jones (1927)
	<i>Tapinoma sessile</i>	Jones (1927)
<i>Hyadaphis foeniculi</i>	<i>Lasius paralienus</i>	Özdemir et al. (2008)
<i>Hyadaphis hofmanni</i>	<i>Camponotus piceus</i>	Özdemir et al. (2008)
<i>Hyperomyzus lactucae</i>	<i>Formica argentea</i>	Jones (1927)
<i>Hyperomyzus nabali</i>	<i>Formica subsericea</i>	Favret et al. (2010)
<i>Macrosiphon rosae</i>	<i>Lepisiota nigra</i>	Mortazavi et al. (2015)
<i>Macrosiphoniella pulvera</i>	<i>Formica cunicularia</i>	Novgorodova (2005)
	<i>Formica polyctena</i>	Novgorodova (2005)
<i>Macrosiphoniella sanborni</i>	<i>Tetramorium caespitum</i>	Akyildirim et al. (2014)
<i>Macrosiphum chrysothamni</i>	<i>Camponotus vicinus</i>	Jones (1927)
	<i>Formica fusca</i>	Jones (1927)
	<i>Formica montana</i>	Jones (1927)
<i>Macrosiphum euphorbiae</i>	<i>Cataglyphis aenescens</i>	Mortazavi et al. (2015)
	<i>Formica argentea</i>	Jones (1927)
<i>Macrosiphum rosae</i>	<i>Formica cunicularia</i>	Akyürek et al. (2016)
<i>Macrosiphum valerianae</i>	<i>Camponotus vicinus</i>	Jones (1927)
<i>Metopeurum fuscoviride</i>	<i>Lasius niger</i>	Volkl et al. (1999), Fischer et al. (2002), Woodring et al. (2004)
<i>Microsiphoniella artemisiae</i>	<i>Formica sp.</i>	Jones (1927)
<i>Myzaphis rosarum</i>	<i>Formica argentea</i>	Jones (1927)
	<i>Formica fusca</i>	Jones (1927)
<i>Myzus cerasi</i>	<i>Lasius alienus</i>	Akyürek et al. (2016)
	<i>Lasius emarginatus</i>	Akyildirim et al. (2014)
	<i>Lasius turcicus</i>	Akyildirim et al. (2014), Akyürek et al. (2016)
	<i>Proformica kobachidzei</i>	Akyildirim et al. (2014)
	<i>Formica fusca</i>	Jones (1927)
<i>Myzus lythri</i>	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
	<i>Lasius emarginatus</i>	Akyildirim et al. (2014)
	<i>Lasius turcicus</i>	Akyildirim et al. (2014)
	<i>Tetramorium caespitum</i>	Akyürek et al. (2016)
<i>Myzus oenotherae</i>	<i>Formica fusca</i>	Jones (1927)
<i>Myzus ornatus</i>	<i>Formica rufibarbis</i>	Akyürek et al. (2016)
<i>Myzus padellus</i>	<i>Formica rufibarbis</i>	Akyürek et al. (2016)
<i>Myzus persicae</i>	<i>Camponotus compressus</i>	Kataria and Kumar (2013)

	<i>Cataglyphis cinnamomeus</i>	Shiran et al. (2013)
	<i>Crematogaster antaris</i>	Shiran et al. (2013)
	<i>Formica argentea</i>	Jones (1927)
	<i>Lasius paralienus</i>	Shiran et al. (2013)
	<i>Lepisiota bipartite</i>	Shiran et al. (2013)
	<i>Linepithema humile</i>	Powell and Silverman (2010)
	<i>Monomorium mayri</i>	Shiran et al. (2013)
	<i>Pheidole pallidula</i>	Shiran et al. (2013)
	<i>Pogonomyrmex occidentalis</i>	Jones (1927)
	<i>Solenopsis invicta</i>	Zhou (2014), Zhou (2012)
	<i>Tapinoma melanocephalum</i>	Zhou et al. (2015)
	<i>Tapinoma sessile</i>	Powell and Silverman (2010)
	<i>Tapinoma simrothi</i>	Shiran et al. (2013)
<i>Myzus varians</i>	<i>Lasius turcicus</i>	Akyürek et al. (2016)
<i>Nasonovia houghtonensis</i>	<i>Formica fusca</i>	Jones (1927)
<i>Nearctaphis bakeri</i>	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
	<i>Formica rufa</i>	Jones (1927)
	<i>Prenolepis imparis</i>	Favret et al. (2010)
	<i>Tapinoma simrothi</i>	Shiran et al. (2013)
<i>Neomyzus circumflexum</i>	<i>Formica subsericea</i>	Favret et al. (2010)
<i>Obtusicauda frigidae</i>	<i>Camponotus herculeanus</i>	Jones (1927)
	<i>Formica efiniventris</i>	Jones (1927)
	<i>Formica fusca</i>	Jones (1927)
<i>Ovatus crataegarius</i>	<i>Formica sp.</i>	Jones (1927)
<i>Pleotrichophorus glandulosus</i>	<i>Formica montana</i>	Jones (1927)
	<i>Formica cinerea</i>	Addicott (1978)
<i>Pleotrichophorus utensis</i>	<i>Formica obscuripes</i>	Billick et al. (2007)
<i>Pseudoepameibaphis tridentatae</i>	<i>Formica montana</i>	Jones (1927)
<i>Pterocomma bicolor</i>	<i>Formica fusca</i>	Jones (1927)
	<i>Myrmica incompleta</i>	Jones (1927)
<i>Pterocomma pilosum</i>	<i>Lasius fuliginosus</i>	Molnar et al. (2000)
<i>Pterocomma populeum</i>	<i>Camponotus herculeanus</i>	Jones (1927)
	<i>Lasius brunneus</i>	Akyürek et al. (2016)
	<i>Lasius turcicus</i>	Akyürek et al. (2016)
<i>Pterocomma rufipes</i>	<i>Crematogaster scutellaris</i>	Akyürek et al. (2016)
	<i>Lasius fuliginosus</i>	Molnar et al. (2000)
<i>Pterocomma salicis</i>	<i>Formica fusca</i>	Jones (1927)
	<i>Myrmica incompleta</i>	Jones (1927)
<i>Pterocomma smithiae</i>	<i>Formica argentea</i>	Jones (1927)
<i>Sitobion fragariae</i>	<i>Lasius brunneus</i>	Akyürek et al. (2016)
<i>Staegeriella necopinata</i>	<i>Camponotus piceus</i>	Özdemir et al. (2008)
	<i>Plagiolepis vindobonensis</i>	Özdemir et al. (2008)
<i>Uroleucon ambrosiae ambrosiae</i>	<i>Formica argentea</i>	Jones (1927)
	<i>Formica canadensis</i>	Jones (1927)



	<i>Formica cinerea</i>	Jones (1927)
	<i>Formica fusca</i>	Jones (1927)
	<i>Myrmica incompleta</i>	Jones (1927)
<i>Uroleucon Dactynotus</i>	<i>Monomorium gracillimum</i>	Stary (1969)
	<i>Formica argentea</i>	Jones (1927)
<i>Uroleucon erigeronense</i>	<i>Formica cinerea</i>	Jones (1927)
	<i>Formica fusca</i>	Jones (1927)
<i>Uroleucon escalantii</i>	<i>Formica obscuripes</i>	Billick et al. (2007)
<i>Uroleucon kashmiricum</i>	<i>Lasius brunneus</i>	Akyürek et al. (2016)
<i>Uroleucon kikioense</i>	<i>Formica fusca</i>	Akyildirim et al. (2014)
<i>Uroleucon nigrotuberculatum</i>	<i>Formica japonica</i>	Ando and Ohgushi (2008)
<i>Uroleucon pieloui</i>	<i>Formica subsericea</i>	Favret et al. (2010)
<i>Uroleucon solidaginis</i>	<i>Formica argentea</i>	Jones (1927)
<i>Uroleucon sonchellum</i>	<i>Prenolepis imparis</i>	Favret et al. (2010)
<i>Uroleucon sonchi</i>	<i>Tetramorium forte</i>	Akyürek et al. (2016)
<i>Uroleucon taraxaci</i>	<i>Formica argentea</i>	Jones (1927)
<i>Wahlgreniella nervata</i>	<i>Myrmica incompleta</i>	Jones (1927)
<b>Subfamily Calaphidinae</b>		
<b>Tribe Calaphidini</b>		
	<i>Camponotus saxatilis</i>	Novgorodova (2005)
<i>Callipterinella tuberculata</i>	<i>Formica aquilonia</i>	Novgorodova (2005)
	<i>Formica polyctena</i>	Novgorodova (2005)
	<i>Lasius niger</i>	Novgorodova (2005)
<i>Neobetulaphis pusilla</i>	<i>Lasius alienus</i>	Akyildirim et al. (2014)
	<i>Lasius turcicus</i>	Akyildirim et al. (2014)
	<i>Camponotus saxatilis</i>	Novgorodova (2005)
	<i>Formica aquilonia</i>	Novgorodova (2005)
<i>Symydobius oblongus</i>	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
	<i>Formica polyctena</i>	Novgorodova (2005)
	<i>Formica pratensis</i>	Novgorodova (2005)
	<i>Lasius fuliginosus</i>	Novgorodova (2005)
	<i>Lasius niger</i>	Novgorodova (2005)
<b>Tribe Panaphidini</b>		
<i>Chromaphis obiensis</i>	<i>Lasius niger</i>	Novgorodova (2005)
<i>Myzocallis discolor</i>	<i>Formica argentea</i>	Jones (1927)
	<i>Formica fusca</i>	Jones (1927)
<i>Myzocallis kuricola</i>	<i>Lasius niger</i>	Sakata (1995)
<i>Shivaphis celti</i>	<i>Nylanderia fulva</i>	Sharma and Buss (2013)
<i>Pterocallis albidus</i>	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
<i>Pterocallis alni</i>	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
<i>Tinocallis platani</i>	<i>Plagiolepis pallelescens</i>	Shiran et al. (2013)
<i>Tuberculatus quercicola</i>	<i>Formica yessensis</i>	Yao and Akimoto (2001), Yao and Akimoto (2009), Yao and Akimoto (2009)
<i>Tuberculatus maximus</i>	<i>Crematogaster subdentata</i>	Mortazavi et al. (2015)

<b>Subfamily Chaitophorinae</b>		
<b>Tribe Chaitophorini</b>		
<i>Chaitophorous populialbae</i>	<i>Polyrhachis simplex</i>	Degen et al. (1986)
<i>Chaitophorus albitorosus</i>	<i>Formica aquilonia</i>	Novgorodova (2005)
	<i>Formica polyctena</i>	Novgorodova (2005)
<i>Chaitophorus albus</i>	<i>Camponotus saxatilis</i>	Novgorodova (2005)
	<i>Formica aquilonia</i>	Novgorodova (2005)
	<i>Formica cunicularia</i>	Novgorodova (2005)
	<i>Formica polyctena</i>	Novgorodova (2005)
	<i>Lasius niger</i>	Novgorodova (2005)
<i>Chaitophorus euphraticus</i>	<i>Lepisiota bipartite</i>	Shiran et al. (2013)
	<i>Monomorium destructor</i>	Shiran et al. (2013)
	<i>Monomorium mayri</i>	Shiran et al. (2013)
<i>Chaitophorus hillerislambersi</i>	<i>Lasius turcicus</i>	Mortazavi et al. (2015)
<i>Chaitophorus israeliticus</i>	<i>Crematogaster inermis</i>	Mortazavi et al. (2015)
	<i>Crematogaster schmidtii</i>	Mortazavi et al. (2015)
	<i>Lepisiota nigra</i>	Mortazavi et al. (2015)
	<i>Messor orientalis</i>	Mortazavi et al. (2015)
	<i>Tapinoma erraticum</i>	Mortazavi et al. (2015)
<i>Chaitophorus kapuri</i>	<i>Lasius alienus</i>	Akyildirim et al. (2014)
<i>Chaitophorus longisetosus</i>	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
	<i>Lasius emarginatus</i>	Akyildirim et al. (2014)
	<i>Lasius paralienus</i>	Akyildirim et al. (2014)
<i>Chaitophorus macrostachyae</i>	<i>Formica fusca</i>	Jones (1927)
	<i>Myrmica incompleta</i>	Jones (1927)
<i>Chaitophorus melanosiphon</i>	<i>Crematogaster scutellaris</i>	Akyürek et al. (2016)
<i>Chaitophorus nassonowi</i>	<i>Formica pratensis</i>	Novgorodova (2005)
<i>Chaitophorus nigrae</i>	<i>Camponotus novaeboracensis</i>	Jones (1927)
	<i>Formica argentea</i>	Jones (1927)
<i>Chaitophorus populeti</i>	<i>Camponotus saxatilis</i>	Novgorodova (2005)
	<i>Formica aquilonia</i>	Novgorodova (2005)
	<i>Formica cunicularia</i>	Novgorodova (2005)
	<i>Formica fusca</i>	Novgorodova (2005)
	<i>Formica polyctena</i>	Novgorodova (2005)
	<i>Formica pratensis</i>	Novgorodova (2005)
	<i>Formica sanguinea</i>	Akyürek et al. (2016)
	<i>Lasius fuliginosus</i>	Novgorodova (2005)
	<i>Lasius niger</i>	Fischer and Shingleton (2001), Novgorodova (2005)
<i>Chaitophorus populialbae</i>	<i>Lasius paralienus</i>	Shiran et al. (2013)
	<i>Camponotus saxatilis</i>	Novgorodova (2005)
	<i>Formica aquilonia</i>	Novgorodova (2005)

	<i>Formica cunicularia</i>	Novgorodova (2005)
	<i>Formica fusca</i>	Novgorodova (2005)
	<i>Formica polyctena</i>	Novgorodova (2005)
	<i>Lasius niger</i>	Fischer and Shingleton (2001), Novgorodova (2005)
	<i>Lasius paralienus</i>	Shiran et al. (2013)
<i>Chaitophorus populicola</i>	<i>Camponotus herculeanus</i>	Jones (1927)
	<i>Camponotus pennsylvanicus</i>	Jones (1927)
	<i>Formica argentea</i>	Jones (1927)
	<i>Formica dakotensis</i>	Jones (1927)
	<i>Formica montana</i>	Jones (1927)
	<i>Formica propinqua</i>	Wimp and Whitham (2001)
	<i>Linepithema humile</i>	Mondor and Addicott (2007)
	<i>Myrmica incompleta</i>	Jones (1927)
	<i>Tapinoma sessile</i>	Jones (1927)
<i>Chaitophorus populifolii</i>	<i>Camponotus herculeanus</i>	Jones (1927)
	<i>Camponotus vicinus</i>	Jones (1927)
	<i>Formica argentea</i>	Jones (1927)
	<i>Formica aterrima</i>	Jones (1927)
	<i>Formica canadensis</i>	Jones (1927)
	<i>Formica fusca</i>	Jones (1927)
	<i>Formica rufa</i>	Jones (1927)
<i>Tapinoma sessile</i>	Jones (1927)	
<i>Chaitophorus remaudierei</i>	<i>Lasius paralienus</i>	Shiran et al. (2013)
<i>Chaitophorus salicti</i>	<i>Formica aquilonia</i>	Novgorodova (2005)
	<i>Formica polyctena</i>	Novgorodova (2005)
	<i>Lasius turcicus</i>	Akyildirim et al. (2014)
<i>Chaitophorus saliniger</i>	<i>Camponotus japonicus</i>	Hembry et al. (2006)
	<i>Formica japonica</i>	Hembry et al. (2006)
	<i>Lasius japonicus</i>	Hembry et al. (2006)
<i>Chaitophorus tremulae</i>	<i>Camponotus saxatilis</i>	Novgorodova (2005)
	<i>Lasius niger</i>	Novgorodova (2005)
<i>Chaitophorus truncates</i>	<i>Crematogaster antaris</i>	Shiran et al. (2013)
	<i>Lasius paralienus</i>	Shiran et al. (2013)
	<i>Lepisiota bipartite</i>	Shiran et al. (2013)
<i>Chaitophorus viminalis</i>	<i>Camponotus vicinus</i>	Jones (1927)
	<i>Formica argentea</i>	Jones (1927)
	<i>Formica fusca</i>	Jones (1927)
	<i>Myrmecina graminicola</i>	Jones (1927)
	<i>Myrmica whymperi</i>	Jones (1927)
	<i>Tapinoma sessile</i>	Jones (1927)
<i>Chaitophorus viminicola</i>	<i>Crematogaster lineolata</i>	Favret et al. (2010)
	<i>Nylanderia fulva</i>	Sharma and Buss (2013)
<i>Chaitophorus vitellinae</i>	<i>Lasius fuliginosus</i>	Molnar et al. (2000)
<i>Periphyllus aceris</i>	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)

	<i>Lasius brunneus</i>	Akyürek et al. (2016)
	<i>Lasius emarginatus</i>	Akyildirim et al. (2014)
<i>Periphyllus bulgaricus</i>	<i>Crematogaster subdentata</i>	Mortazavi et al. (2015)
	<i>Lasius alienus</i>	Mortazavi et al. (2015)
	<i>Lepisiota nigra</i>	Mortazavi et al. (2015)
<i>Periphyllus negundinis</i>	<i>Dorymyrmex pyramicus</i>	Jones (1927)
	<i>Formica argentea</i>	Jones (1927)
	<i>Formica fusca</i>	Jones (1927)
<b>Tribe Siphini</b>		
<i>Sipha maydis</i>	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
	<i>Formica cunicularia</i>	Akyürek et al. (2016)
	<i>Lasius alienus</i>	Akyürek et al. (2016)
<b>Subfamily Drepanosiphinae</b>		
<i>Drepanaphis acerifoliae</i>	<i>Formica argentea</i>	Jones (1927)
	<i>Formica canadensis</i>	Jones (1927)
	<i>Myrmica scabrinodis</i>	Jones (1927)
<i>Drepanaphis nigricans</i>	<i>Camponotus subbarbatus</i>	Favret et al. (2010)
	<i>Myrmica punctiventris</i>	Favret et al. (2010)
<i>Drepanosiphum braggii</i>	<i>Formica canadensis</i>	Jones (1927)
	<i>Formica fusca</i>	Jones (1927)
<b>Subfamily Eriosomatinae</b>		
<b>Tribe Eriosomatini</b>		
<i>Eriosoma americanum</i>	<i>Formica cinerea</i>	Jones (1927)
<i>Eriosoma crataegi</i>	<i>Myrmica incompleta</i>	Jones (1927)
<i>Tetraneura sp.</i>	<i>Technomyrmex albipes</i>	Idechiil et al. (2007)
<b>Tribe Fordini</b>		
<i>Forda marginata</i>	<i>Lasius americanus</i>	Cockerell (1903)
	<i>Lasius claviger</i>	Cockerell (1903)
	<i>Lasius flavus</i>	Cockerell (1903)
<i>Geoica sp.</i>	<i>Formica fusca</i>	Jones (1927)
<i>Paracletus cimiciformis</i>	<i>Tetramorium semilaeve</i>	Salazar et al. (2015)
<b>Tribe Pemphigini</b>		
<i>Pachypappa sacculi</i>	<b><i>Formica sp.</i></b>	Jones (1927)
<i>Pemphigus lasii</i>	<i>Lasius americanus</i>	Cockerell (1903), Palmer (1952)
<i>Pemphigus populiramulorum</i>	<i>Pheidole pilifera</i>	Jones (1927)
<i>Pentalonia nigronevosa</i>	<i>Anoplolepis gracilipes</i>	Idechiil et al. (2007)
	<i>Camponotus reticulatus</i>	Idechiil et al. (2007)
	<i>Cardiocondyla emeryi</i>	Idechiil et al. (2007)
	<i>Cardiocondyla wroughtonii</i>	Idechiil et al. (2007)
	<i>Paratrechina bourbonica</i>	Idechiil et al. (2007)
	<i>Tapinoma melanocephalum</i>	Idechiil et al. (2007)
	<i>Technomyrmex albipes</i>	Idechiil et al. (2007)
	<i>Tetramorium bicarinatum</i>	Idechiil et al. (2007)

<i>Prociphilus fraxinifolii</i>	<i>Formica argentea</i>	Jones (1927)
	<i>Formica cinerea</i>	Jones (1927)
<i>Thecabius populimonilis</i>	<i>Camponotus sansabeanus</i>	Jones (1927)
	<i>Camponotus vicinus</i>	Jones (1927)
	<i>Pheidole bicarinata</i>	Jones (1927)
<b>Subfamily Lachninae</b>		
<b>Tribe Eulachnini</b>		
<i>Cinara acutirostris</i>	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
<i>Cinara apini</i>	<i>Camponotus herculeanus</i>	Jones (1927)
	<i>Camponotus maculatus</i>	Jones (1927)
	<i>Formica argentea</i>	Jones (1927)
	<i>Formica comata</i>	Jones (1927)
	<i>Formica dakotensis</i>	Jones (1927)
	<i>Myrmica rubra</i>	Jones (1927)
<i>Cinara atlantica</i>	<i>Formica subsericea</i>	Favret et al. (2010)
	<i>Lasius alienus</i>	Favret et al. (2010)
	<i>Tapinoma sessile</i>	Favret et al. (2010)
<i>Cinara boernerii</i>	<i>Formica aquilonia</i>	Novgorodova (2005)
	<i>Formica cunicularia</i>	Novgorodova (2005)
	<i>Formica fusca</i>	Novgorodova (2005)
	<i>Formica polycтена</i>	Novgorodova (2005)
	<i>Formica pratensis</i>	Novgorodova (2005)
	<i>Lasius fuliginosus</i>	Novgorodova (2005)
<i>Cinara brevispinosa</i>	<i>Formica fusca</i>	Jones (1927)
	<i>Myrmica scabrinodis</i>	Jones (1927)
<i>Cinara cedri</i>	<i>Lasius brunneus</i>	Akyürek et al. (2016)
	<i>Tapinoma simrothi</i>	Shiran et al. (2013)
<i>Cinara coloradensis</i>	<i>Camponotus pennsylvanicus</i>	Jones (1927)
	<i>Formica cinerea</i>	Jones (1927)
<i>Cinara cupressi</i>	<i>Formica cinerea</i>	Jones (1927)
	<i>Lasius brunneus</i>	Akyürek et al. (2016)
	<i>Lasius turcicus</i>	Akyürek et al. (2016)
<i>Cinara edulis</i>	<i>Camponotus vicinus</i>	Jones (1927)
	<i>Creumatogaster lineolata</i>	Jones (1927)
	<i>Formica fusca</i>	Jones (1927)
<i>Cinara flexilis</i>	<i>Camponotus pennsylvanicus</i>	Jones (1927)
<i>Cinara hottesi</i>	<i>Camponotus herculeanus</i>	Jones (1927)
	<i>Formica cinerea</i>	Jones (1927)
<i>Cinara indica</i>	<i>Formica rufibarbis</i>	Akyürek et al. (2016)
<i>Cinara juniperivora</i>	<i>Nylanderia fulva</i>	Sharma and Buss (2013)
<i>Cinara laricis</i>	<i>Formica aquilonia</i>	Novgorodova (2005)
	<i>Formica fusca</i>	Novgorodova (2005)
	<i>Formica polycтена</i>	Novgorodova (2005)
	<i>Formica pratensis</i>	Novgorodova (2005)
	<i>Lasius fuliginosus</i>	Novgorodova (2005)

<i>Cinara maritimae</i>	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
<i>Cinara medispinosa</i>	<i>Formica montana</i>	Jones (1927)
<i>Cinara murrayanae</i>	<i>Crematogaster lineolata</i>	Jones (1927)
<i>Cinara occidentalis</i>	<i>Formica rufibarbis</i>	Akyürek et al. (2016)
<i>Cinara oregonensis</i>	<i>Camponotus vicinus</i>	Jones (1927)
	<i>Myrmica incompleta</i>	Jones (1927)
<i>Cinara palaestinensis</i>	<i>Lasius paralienus</i>	Shiran et al. (2013)
<i>Cinara palaestinesis</i>	<i>Cataglyphis emeryi</i>	LATIBARI et al. (2016)
	<i>Formica cunicularia</i>	LATIBARI et al. (2016)
	<i>Lasius alienus</i>	LATIBARI et al. (2016)
	<i>Lasius paralienus</i>	LATIBARI et al. (2016)
	<i>Pheidole pallidula</i>	LATIBARI et al. (2016)
<i>Cinara piceae</i>	<i>Formica aquilonia</i>	Novgorodova (2005), Gibb and Johansson (2010)
	<i>Formica polyctena</i>	Novgorodova (2005)
<i>Cinara piceicola</i>	<i>Formica aquilonia</i>	Gibb and Johansson (2010)
<i>Cinara pilicornis</i>	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
	<i>Formica fusca</i>	Akyildirim et al. (2014)
	<i>Lasius turcicus</i>	Akyildirim et al. (2014)
	<i>Tetramorium forte</i>	Akyildirim et al. (2014)
<i>Cinara pinea</i>	<i>Formica aquilonia</i>	Novgorodova (2005)
	<i>Formica fusca</i>	Novgorodova (2005)
	<i>Formica polyctena</i>	Novgorodova (2005)
	<i>Formica pratensis</i>	Novgorodova (2005)
	<i>Lasius fuliginosus</i>	Novgorodova (2005)
<i>Cinara pineti</i>	<i>Tapinoma sessile</i>	Jones (1927)
<i>Cinara pini</i>	<i>Camponotus saxatilis</i>	Novgorodova (2005)
	<i>Cardiocondyla shalbergi</i>	LATIBARI et al. (2016)
	<i>Cataglyphis aenescens</i>	LATIBARI et al. (2016)
	<i>Cataglyphis emeryi</i>	LATIBARI et al. (2016)
	<i>Cataglyphis nodus</i>	LATIBARI et al. (2016)
	<i>Crematogaster subdentata</i>	LATIBARI et al. (2016)
	<i>Formica aquilonia</i>	Novgorodova (2005)
	<i>Formica cunicularia</i>	Novgorodova (2005)
	<i>Formica fusca</i>	Novgorodova (2005)
	<i>Formica polyctena</i>	Novgorodova (2005)
	<i>Formica pratensis</i>	Novgorodova (2005)
	<i>Lasius alienus</i>	LATIBARI et al. (2016)
	<i>Lasius emarginatus</i>	Akyildirim et al. (2014)
	<i>Lasius niger</i>	Novgorodova (2005)
	<i>Lasius paralienus</i>	LATIBARI et al. (2016)
	<i>Lasius turcicus</i>	Akyildirim et al. (2014)
	<i>Lepisiota nigra</i>	LATIBARI et al. (2016)
<i>Tapinoma erraticum</i>	LATIBARI et al. (2016)	
<i>Cinara pinihabitans</i>	<i>Camponotus saxatilis</i>	Novgorodova (2005)

<i>Cinara pinivora</i>	<i>Formica subsericea</i>	Favret et al. (2010)
<i>Cinara ponderosae</i>	<i>Camponotus vicinus</i>	Jones (1927)
	<i>Crematogaster laeviuscula</i>	Jones (1927)
	<i>Formica argentea</i>	Jones (1927)
	<i>Tapinoma sessile</i>	Jones (1927)
<i>Cinara pruinosa</i>	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
<i>Cinara pseudotsugae</i>	<i>Camponotus herculeanus</i>	Jones (1927)
	<i>Camponotus vicinus</i>	Jones (1927)
	<i>Formica canadensis</i>	Jones (1927)
	<i>Formica cinerea</i>	Jones (1927)
	<i>Formica fusca</i>	Jones (1927)
	<i>Formica montana</i>	Jones (1927)
<i>Cinara schwarzii</i>	<i>Camponotus novaeboracensis</i>	Jones (1927)
	<i>Camponotus vicinus</i>	Jones (1927)
	<i>Crematogaster lineolata</i>	Jones (1927)
	<i>Formica comata</i>	Jones (1927)
<i>Cinara sibiricae</i>	<i>Camponotus vicinus</i>	Jones (1927)
<i>Cinara splendens</i>	<i>Camponotus herculeanus</i>	Jones (1927)
	<i>Formica comata</i>	Jones (1927)
<i>Cinara strobi</i>	<i>Camponotus pennsylvanicus</i>	Favret et al. (2010)
<i>Cinara tujafilina</i>	<i>Lasius brunneus</i>	Akyürek et al. (2016)
	<i>Lasius turcicus</i>	Akyürek et al. (2016)
<i>Cinara vandykei</i>	<i>Camponotus herculeanus</i>	Jones (1927)
<i>Eulachnus tuberculostemmatum</i>	<i>Camponotus turkestanicus</i>	Mortazavi et al. (2015)
<i>Eulachnus tuberculostommata</i>	<i>Tapinoma simrothi</i>	Shiran et al. (2013)
<i>Schizolachnus pineti</i>	<i>Formica cinereofusca</i>	Akyildirim et al. (2014)
<b>Tribe Lachnini</b>		
<i>Lachnus ater</i>	<i>Crematogaster lineolata</i>	Jones (1927)
<i>Lachnus glaber</i>	<i>Formica argentea</i>	Jones (1927)
<i>Lachnus roboris</i>	<i>Camponotus aethiops</i>	Akyürek et al. (2016)
	<i>Lasius brunneus</i>	Akyürek et al. (2016)
	<i>Lasius grandis</i>	Paris and Espadaler (2009)
	<i>Lasius neglectus</i>	Paris and Espadaler (2009)
	<i>Proformica kobachidzei</i>	Akyildirim et al. (2014)
<i>Lachnus solitarius</i>	<i>Camponotus novaeboracensis</i>	Jones (1927)
	<i>Camponotus vicinus</i>	Jones (1927)
<i>Lachnus tropicalis</i>	<i>Lasius fuliginosus</i>	Zhang et al. (2015)
	<i>Lasius niger</i>	Sakata (1995)
<i>Pterochloroides persicae</i>	<i>Cataglyphis aenescens</i>	Mortazavi et al. (2015)
	<i>Cataglyphis nodus</i>	Mortazavi et al. (2015)
	<i>Lasius paralienus</i>	Shiran et al. (2013)
	<i>Lasius turcicus</i>	Akyildirim et al. (2014)

	<i>Lepisiota bipartite</i>	Shiran et al. (2013)
	<i>Lepisiota frauenfeldi</i>	Mortazavi et al. (2015)
	<i>Lepisiota nigra</i>	Mortazavi et al. (2015)
	<i>Tapinoma simrothi</i>	Sary (1969)
<i>Stomaphis hirukawai</i>	<i>Lasius productus</i>	Matsuura and Yashiro (2006)
<i>Stomaphis japonica</i>	<i>Lasius fuliginosus</i>	Zhang et al. (2015)
<i>Stomaphis quercus</i>	<i>Lasius fuliginosus</i>	Novgorodova (2005)
<i>Stomaphis yanonis</i>	<i>Lasius fuji</i>	Endo and Itino (2013)
<b>Tribe Tramini</b>		
<i>Trama troglodytes</i>	<i>Lasius niger</i>	Woodring et al. (2004)
<b>Tribe Tuberolachnini</b>		
<i>Tuberolachnus salignus</i>	<i>Formica canadensis</i>	Jones (1927)
	<i>Formica fusca</i>	Jones (1927)
	<i>Formica rufibarbis</i>	Akyürek et al. (2016)
<b>Subfamily Thelaxinae</b>		
<b>Tribe Thelaxini</b>		
<i>Glyphina betulae</i>	<i>Camponotus saxatilis</i>	Novgorodova (2005)
	<i>Formica aquilonia</i>	Novgorodova (2005)
	<i>Formica polycтена</i>	Novgorodova (2005)
<i>Thelaxes californica</i>	<i>Crematogaster schmidtii</i>	Akyildirim et al. (2014)
	<i>Lasius emarginatus</i>	Akyildirim et al. (2014)
<i>Thelaxes suberi</i>	<i>Camponotus aethiops</i>	Akyürek et al. (2016)
	<i>Lasius brunneus</i>	Akyürek et al. (2016)
<i>Thelaxes suberis</i>	<i>Camponotus gestroi</i>	Sary (1969)
	<i>Camponotus kurdistanicus</i>	Sary (1969)
	<i>Crematogaster auberti</i>	Sary (1969)
	<i>Crematogaster sordidula</i>	Sary (1969)
	<i>Pheidole pallidula</i>	Sary (1969)
	<i>Tapinoma simrothi</i>	Sary (1969)
<b>Subfamily Saltusaphidinae</b>		
<b>Tribe Thripsaphidini</b>		
<i>Callaphis juglandis</i>	<i>Crematogaster inermis</i>	Mortazavi et al. (2015)
	<i>Plagiolepis pallescens</i>	Mortazavi et al. (2015)

**Table A2.** Species interactions of aphid-associated ants

Ants	Associated aphids	Reference
<b>Subfamily Dolichoderinae</b>		
<b>Tribe Leptomyrmecini</b>		
<i>Dorymyrmex pyramicus</i>	<i>Aphis lugentis</i>	Jones (1927)
	<i>Periphyllus negundinis</i>	Jones (1927)
<i>Dorymyrmex tener</i>	<i>Brachycaudus cardui</i>	Lescano et al. (2015)
<i>Dorymyrmex wolffuegeli</i>	<i>Brachycaudus cardui</i>	Lescano et al. (2015)
<i>Iridomyrmex anceps</i>	<i>Aphis gossypii</i>	Idechiil et al. (2007)



<i>Iridomyrmex humilis</i>	<i>Aphis nerii</i>	Bristow (1991)
<i>Iridomyrmex hartmeyeri</i>	<i>Aphis clerodendri</i>	Carver et al. (2003)
<i>Linepithema humile</i>	<i>Aphis coreopsidis</i>	Altfeld and Stiling (2009)
	<i>Aphis gossypii</i>	Powell and Silverman (2010), Tena et al. (2013), LeVan and Holway (2015)
	<i>Aphis nerii</i>	Pringle et al. (2014)
	<i>Aphis spiraeicola</i>	Tena et al. (2013)
	<i>Chaitophorus populicola</i>	Mondor and Addicott (2007)
	<i>Myzus persicae</i>	Powell and Silverman (2010)
<b>Tribe Tapinomini</b>		
<i>Liometopum luctuosum</i>	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Liometopum occidentale</i>	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Tapinoma erraticum</i>	<i>Aphis craccivora</i>	Mortazavi et al. (2015)
	<i>Aphis fabae</i>	Mortazavi et al. (2015)
	<i>Aphis gossypii</i>	Mortazavi et al. (2015)
	<i>Aphis pomi</i>	Mortazavi et al. (2015)
	<i>Aphis salicariae</i>	Mortazavi et al. (2015)
	<i>Brachycaudus amygdalinus</i>	Mortazavi et al. (2015)
	<i>Brachycaudus tragopogonis</i>	Mortazavi et al. (2015)
	<i>Chaitophorus israeliticus</i>	Mortazavi et al. (2015)
	<i>Cinara pini</i>	LATIBARI et al. (2016)
<i>Tapinoma indicum</i>	<i>Aphis gossypii</i>	Lokeshwari et al. (2015)
<i>Tapinoma melanocephalum</i>	<i>Aphis gossypii</i>	Idechiil et al. (2007), Lokeshwari et al. (2015)
	<i>Hysteroneura setariae</i>	Idechiil et al. (2007)
	<i>Myzus persicae</i>	Zhou et al. (2015)
	<i>Pentalonia nigronervosa</i>	Idechiil et al. (2007)
<i>Tapinoma sessile</i>	<i>Aphis asclepiadis</i>	Addicott (1979a), Jones (1927)
	<i>Aphis gossypii</i>	Powell and Silverman (2010)
	<i>Aphis helianthi</i>	Mooney et al. (2015)
	<i>Aphis lugentis</i>	Favret et al. (2010)
	<i>Aphis salicariae</i>	Addicott (1979a), Mooney et al. (2015)
	<i>Aphis varians</i>	Addicott (1979a), Mooney et al. (2015)
	<i>Bipersona torticauda</i>	Jones (1927)
	<i>Brachycaudus cardui</i>	Jones (1927)
	<i>Chaitophorus populicola</i>	Jones (1927)
	<i>Chaitophorus populifolii</i>	Jones (1927)
	<i>Chaitophorus viminalis</i>	Jones (1927)
	<i>Cinara atlantica</i>	Favret et al. (2010)
	<i>Cinara pineti</i>	Jones (1927)
	<i>Cinara ponderosae</i>	Jones (1927)
	<i>Dysaphis sorbi</i>	Jones (1927)
	<i>Myzus persicae</i>	Powell and Silverman (2010)
<i>Tapinoma simrothi</i>	<i>Aphis craccivora</i>	Stary (1969), Shiran et al. (2013)
	<i>Aphis davletshinae</i>	Shiran et al. (2013)

	<i>Aphis fabae</i>	Sтары (1969), Shiran et al. (2013)
	<i>Aphis frangulae</i>	Shiran et al. (2013)
	<i>Aphis gossypii</i>	Sтары (1969)
	<i>Aphis nasturtii</i>	Shiran et al. (2013)
	<i>Aphis nerii</i>	Shiran et al. (2013)
	<i>Aphis pomi</i>	Sтары (1969)
	<i>Aphis punicae</i>	Sтары (1969)
	<i>Aphis rumicis</i>	Shiran et al. (2013)
	<i>Aphis umbrella</i>	Shiran et al. (2013)
	<i>Brachycaudus cardui</i>	Sтары (1969)
	<i>Brachycaudus helichrysi</i>	Shiran et al. (2013)
	<i>Brachyonguis harmalae</i>	Shiran et al. (2013)
	<i>Brachyonguis tamaricophilus</i>	Shiran et al. (2013)
	<i>Capitophorus inulae</i>	Shiran et al. (2013)
	<i>Cinara cedri</i>	Shiran et al. (2013)
	<i>Colorado absinthiella</i>	Shiran et al. (2013)
	<i>Eulachnus tuberculostommata</i>	Shiran et al. (2013)
	<i>Hyalopterus pruni</i>	Sтары (1969)
	<i>Myzus persicae</i>	Shiran et al. (2013)
	<i>Nearctaphis bakeri</i>	Shiran et al. (2013)
	<i>Pterochloroides persicae</i>	Sтары (1969)
	<i>Rhopalosiphum maidis</i>	Sтары (1969)
	<i>Rhopalosiphum padi</i>	Shiran et al. (2013)
	<i>Thelaxes suberis</i>	Sтары (1969)
<i>Technomyrmex albipes</i>	<i>Aphis clerodendri</i>	Carver et al. (2003)
	<i>Aphis gossypii</i>	Idechiil et al. (2007), Lokeshwari et al. (2015)
	<i>Hysteroneura setariae</i>	Idechiil et al. (2007)
	<i>Pentalonia nigronervosa</i>	Idechiil et al. (2007)
<b>Subfamily Formicinae</b>		
<b>Tribe Camponotini</b>		
<i>Camponotus aethiops</i>	<i>Aphis brotericola</i>	Özdemir et al. (2008)
	<i>Aphis fabae</i>	Akyürek et al. (2016)
	<i>Aphis salviae</i>	Özdemir et al. (2008)
	<i>Brachcaudus helicyrsi</i>	Özdemir et al. (2008)
	<i>Brachycaudus cardui</i>	Özdemir et al. (2008), Akyürek et al. (2016)
	<i>Lachnus roboris</i>	Akyürek et al. (2016)
	<i>Thelaxes suberi</i>	Akyürek et al. (2016)
<i>Camponotus compressus</i>	<i>Aphis craccivora</i>	Kataria and Kumar (2013), Rakhshan and Ahmad (2015)
	<i>Aphis fabae</i>	Kataria and Kumar (2013)
	<i>Aphis gossypii</i>	Vergheese and Tandon (1987), Kataria and Kumar (2013), Lokeshwari et al. (2015)
	<i>Aphis nerii</i>	Kataria and Kumar (2013)

	<i>Myzus persicae</i>	Kataria and Kumar (2013)
<i>Camponotus gestroi</i>	<i>Thelaxes suberis</i>	Sary (1969)
<i>Camponotus herculeanus</i>	<i>Aphis lugentis</i>	Jones (1927)
	<i>Aphis salicariae</i>	Addicott (1979a)
	<i>Aphis valerianae</i>	Jones (1927)
	<i>Aphis varians</i>	Addicott (1979a)
	<i>Chaitophorus populicola</i>	Jones (1927)
	<i>Chaitophorus populifolii</i>	Jones (1927)
	<i>Cinara apini</i>	Jones (1927)
	<i>Cinara hottesi</i>	Jones (1927)
	<i>Cinara pseudotsugae</i>	Jones (1927)
	<i>Cinara splendens</i>	Jones (1927)
	<i>Cinara vandykei</i>	Jones (1927)
	<i>Obtusicauda frigidae</i>	Jones (1927)
	<i>Pterocomma populeum</i>	Jones (1927)
	<i>Schizaphis graminum</i>	Jones (1927)
<i>Camponotus invidus</i>	<i>Aphis craccivora</i>	Rakhshan and Ahmad (2015)
<i>Camponotus japonicus</i>	<i>Chaitophorus saliniger</i>	Hembry et al. (2006)
<i>Camponotus kurdistanicus</i>	<i>Thelaxes suberis</i>	Sary (1969)
	<i>Aphis craccivora</i>	Sary (1969)
<i>Camponotus lateralis</i>	<i>Aphis spiraecola</i>	Akyürek et al. (2016)
<i>Camponotus libanicus</i>	<i>Aphis craccivora</i>	Shiran et al. (2013)
<i>Camponotus maculatus</i>	<i>Cinara apini</i>	Jones (1927)
<i>Camponotus modoc</i>	<i>Aphis lugentis</i>	Jones (1927)
<i>Camponotus navigator</i>	<i>Hysteroneura setariae</i>	Idechiil et al. (2007)
<i>Camponotus novaeboracensis</i>	<i>Chaitophorus nigrae</i>	Jones (1927)
	<i>Cinara schwarzii</i>	Jones (1927)
	<i>Lachnus solitarius</i>	Jones (1927)
<i>Camponotus oasium</i>	<i>Aphis craccivora</i>	Shiran et al. (2013)
	<i>Aphis frangulae</i>	Shiran et al. (2013)
<i>Camponotus parius</i>	<i>Aphis gossypii</i>	Lokeshwari et al. (2015)
<i>Camponotus pennsylvanicus</i>	<i>Chaitophorus populicola</i>	Jones (1927)
	<i>Cinara coloradensis</i>	Jones (1927)
	<i>Cinara flexilis</i>	Jones (1927)
	<i>Cinara strobi</i>	Favret et al. (2010)
<i>Camponotus piceus</i>	<i>Aphis brotericola</i>	Özdemir et al. (2008)
	<i>Aphis chloris</i>	Özdemir et al. (2008)
	<i>Aphis craccivora</i>	Özdemir et al. (2008)
	<i>Aphis euphorbiae</i>	Özdemir et al. (2008)
	<i>Aphis fabae</i>	Özdemir et al. (2008)
	<i>Aphis salviae</i>	Özdemir et al. (2008)
	<i>Hyadaphis hofmanni</i>	Özdemir et al. (2008)
	<i>Staegeriella necopinata</i>	Özdemir et al. (2008)
<i>Camponotus reticulatus</i>	<i>Aphis gossypii</i>	Idechiil et al. (2007)
	<i>Pentalonia nigronervosa</i>	Idechiil et al. (2007)

<i>Camponotus sansabeanus</i>	<i>Thecabius populimonilis</i>	Jones (1927)
<i>Camponotus saxatilis</i>	<i>Aphis brohmeri</i>	Novgorodova (2005)
	<i>Aphis fabae</i>	Novgorodova (2005)
	<i>Callipterinella tuberculata</i>	Novgorodova (2005)
	<i>Chaitophorus albus</i>	Novgorodova (2005)
	<i>Chaitophorus populeti</i>	Novgorodova (2005)
	<i>Chaitophorus populialbae</i>	Novgorodova (2005)
	<i>Chaitophorus tremulae</i>	Novgorodova (2005)
	<i>Cinara pini</i>	Novgorodova (2005)
	<i>Cinara pinihabitans</i>	Novgorodova (2005)
	<i>Glyphina betulae</i>	Novgorodova (2005)
	<i>Symydobius oblongus</i>	Novgorodova (2005)
<i>Camponotus subbarbatus</i>	<i>Drepanaphis nigricans</i>	Favret et al. (2010)
<i>Camponotus turkestanicus</i>	<i>Eulachnus tuberculostemmatu</i>	Mortazavi et al. (2015)
<i>Camponotus vicinus</i>	<i>Aphis asclepiadis</i>	Jones (1927)
	<i>Aphis valeriana</i>	Jones (1927)
	<i>Bipersona torticauda</i>	Jones (1927)
	<i>Chaitophorus populifolii</i>	Jones (1927)
	<i>Chaitophorus viminalis</i>	Jones (1927)
	<i>Cinara edulis</i>	Jones (1927)
	<i>Cinara oregonensis</i>	Jones (1927)
	<i>Cinara ponderosae</i>	Jones (1927)
	<i>Cinara pseudotsugae</i>	Jones (1927)
	<i>Cinara schwarzii</i>	Jones (1927)
	<i>Cinara sibiricae</i>	Jones (1927)
	<i>Lachnus solitarius</i>	Jones (1927)
	<i>Macrosiphum chrysothammi</i>	Jones (1927)
	<i>Macrosiphum valeriana</i>	Jones (1927)
	<i>Protaphis middletonii</i>	Jones (1927)
	<i>Thecabius populimonilis</i>	Jones (1927)
	<i>Aphis clerodendri</i>	Carver et al. (2003)
<i>Polyrhachis hauxwelli</i>	<i>Aphis craccivora</i>	Rakhshan and Ahmad (2015)
<i>Polyrhachis lacteipennis</i>	<i>Aphis craccivora</i>	Shiran et al. (2013)
	<i>Aphis frangulae</i>	Shiran et al. (2013)
	<i>Rhopalosiphum maidis</i>	Shiran et al. (2013)
<i>Polyrhachis simplex</i>	<i>Chaitophorous populialbae</i>	Degen et al. (1986)
<i>Prenolepis imparis</i>	<i>Aphis cornifoliae</i>	Favret et al. (2010)
	<i>Aphis fabae</i>	Favret et al. (2010)
	<i>Capitophorus elaeagni</i>	Favret et al. (2010)
	<i>Nearctaphis bakeri</i>	Favret et al. (2010)
	<i>Rhopalosiphum maidis</i>	Barton and Ives (2014)
<i>Uroleucon sonchellum</i>	Favret et al. (2010)	
<b>Tribe Formicini</b>		
<i>Cataglyphis aenescens</i>	<i>Aphis craccivora</i>	Özdemir et al. (2008)

	<i>Cinara pini</i>	LATIBARI et al. (2016)
	<i>Macrosiphum euphorbiae</i>	Mortazavi et al. (2015)
	<i>Pterochloroides persicae</i>	Mortazavi et al. (2015)
<i>Cataglyphis cinnamomeus</i>	<i>Myzus persicae</i>	Shiran et al. (2013)
<i>Cataglyphis emeryi</i>	<i>Cinara palaestinesis</i>	LATIBARI et al. (2016)
	<i>Cinara pini</i>	LATIBARI et al. (2016)
<i>Cataglyphis livida</i>	<i>Subcryptosiphon sp.</i>	Sary (1969)
<i>Cataglyphis lividus</i>	<i>Aphis fabae</i>	Shiran et al. (2013)
<i>Cataglyphis nodus</i>	<i>Aphis frangulae</i>	Shiran et al. (2013)
	<i>Aphis gossypii</i>	Sary (1969)
	<i>Chaitophorus sp.</i>	Sary (1969)
	<i>Cinara pini</i>	LATIBARI et al. (2016)
	<i>Pterochloroides persicae</i>	Mortazavi et al. (2015)
<i>Cataglyphis protuberata</i>	<i>Lachnus sp.</i>	Sary (1969)
<i>Formica altipetens</i>	<i>Bipersona torticauda</i>	Jones (1927)
<i>Formica aquilonia</i>	<i>Aphis brohmeri</i>	Novgorodova (2005)
	<i>Aphis craccivora</i>	Novgorodova (2005)
	<i>Aphis evonymi</i>	Novgorodova (2005)
	<i>Aphis fabae</i>	Novgorodova (2005)
	<i>Aphis jacobaeae</i>	Novgorodova (2005)
	<i>Aphis pomi</i>	Novgorodova (2005)
	<i>Aphis subnitidae</i>	Novgorodova (2005)
	<i>Aphis viburni</i>	Novgorodova (2005)
	<i>Callipterinella tuberculata</i>	Novgorodova (2005)
	<i>Chaitophorus albitorosus</i>	Novgorodova (2005)
	<i>Chaitophorus albus</i>	Novgorodova (2005)
	<i>Chaitophorus populeti</i>	Novgorodova (2005)
	<i>Chaitophorus populialbae</i>	Novgorodova (2005)
	<i>Chaitophorus salicti</i>	Novgorodova (2005)
	<i>Cinara boernerii</i>	Novgorodova (2005)
	<i>Cinara laticis</i>	Novgorodova (2005)
	<i>Cinara piceae</i>	Novgorodova (2005), Gibb and Johansson (2010)
	<i>Cinara piceicola</i>	Gibb and Johansson (2010)
	<i>Cinara pinea</i>	Novgorodova (2005)
	<i>Cinara pini</i>	Novgorodova (2005)
	<i>Glyphina betulae</i>	Novgorodova (2005)
	<i>Rhopalosiphum padi</i>	Novgorodova (2005)
<i>Schizaphis gramina</i>	Novgorodova (2005)	
<i>Schizaphis pyri</i>	Novgorodova (2005)	
<i>Symydobius oblongus</i>	Novgorodova (2005)	
<i>Formica argentea</i>	<i>Anuraphis subterranea</i>	Jones (1927)
	<i>Aphis aiddletonii</i>	Jones (1927)
	<i>Aphis asclepiadis</i>	Jones (1927)
	<i>Aphis gossypii</i>	Jones (1927)

	<i>Aphis lugentis</i>	Jones (1927)
	<i>Aphis medicaginis</i>	Jones (1927)
	<i>Aphis sambucifolii</i>	Jones (1927)
	<i>Aphis ulmariae</i>	Jones (1927)
	<i>Bipersona torticauda</i>	Jones (1927)
	<i>Braggia eriogoni</i>	Jones (1927)
	<i>Chaitophorus nigrae</i>	Jones (1927)
	<i>Chaitophorus populicola</i>	Jones (1927)
	<i>Chaitophorus populifolii</i>	Jones (1927)
	<i>Chaitophorus viminalis</i>	Jones (1927)
	<i>Cinara apini</i>	Jones (1927)
	<i>Cinara ponderosae</i>	Jones (1927)
	<i>Cryptomyzus ribis</i>	Jones (1927)
	<i>Drepanaphis acerifoliae</i>	Jones (1927)
	<i>Hyperomyzus lactucae</i>	Jones (1927)
	<i>Lachnus glaber</i>	Jones (1927)
	<i>Macrosiphum euphorbiae</i>	Jones (1927)
	<i>Myzaphis rosarum</i>	Jones (1927)
	<i>Myzocallis discolor</i>	Jones (1927)
	<i>Myzus persicae</i>	Jones (1927)
	<i>Periphyllus negundinis</i>	Jones (1927)
	<i>Prociphilus fraxinifolii</i>	Jones (1927)
	<i>Pterocomma smithiae</i>	Jones (1927)
	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
	<i>Uroleucon ambrosiae</i>	Jones (1927)
	<i>Uroleucon erigeronense</i>	Jones (1927)
	<i>Uroleucon solidaginis</i>	Jones (1927)
	<i>Uroleucon taraxaci</i>	Jones (1927)
<i>Formica aserva</i>	<i>Aphis asclepiadis</i>	Addicott (1979a)
	<i>Aphis salicariae</i>	Addicott (1979a)
	<i>Aphis varians</i>	Addicott (1979a)
	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Formica aterrima</i>	<i>Chaitophorus populifolii</i>	Jones (1927)
<i>Formica bradleyi</i>	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Formica canadensis</i>	<i>Aphis asclepiadis</i>	Jones (1927)
	<i>Aphis lugentis</i>	Jones (1927)
	<i>Aphis medicaginis</i>	Jones (1927)
	<i>Aphis pomi</i>	Jones (1927)
	<i>Aphis valerianae</i>	Jones (1927)
	<i>Chaitophorus populifolii</i>	Jones (1927)
	<i>Cinara pseudotsugae</i>	Jones (1927)
	<i>Drepanaphis acerifoliae</i>	Jones (1927)
	<i>Drepanosiphum braggii</i>	Jones (1927)
	<i>Tuberolachnus salignus</i>	Jones (1927)
	<i>Uroleucon ambrosiae</i>	Jones (1927)

<i>Formica cinerea</i>	<i>Aphis asclepiadis</i>	Jones (1927)
	<i>Aphis forbesi</i>	Jones (1927)
	<i>Aphis gossypii</i>	Jones (1927)
	<i>Aphis medicaginis</i>	Jones (1927)
	<i>Aphis pomi</i>	Jones (1927)
	<i>Aphis varians</i>	Addicott (1978), Breton and Addicott (1992)
	<i>Aphthargelia symphoricarpi</i>	Addicott (1978)
	<i>Bipersona torticauda</i>	Jones (1927)
	<i>Brachycaudus helichrysi</i>	Jones (1927)
	<i>Cinara coloradensis</i>	Jones (1927)
	<i>Cinara cupressi</i>	Jones (1927)
	<i>Cinara hottesi</i>	Jones (1927)
	<i>Cinara pseudotsugae</i>	Jones (1927)
	<i>Diuraphis calamagrostis</i>	Jones (1927)
	<i>Eriosoma americanum</i>	Jones (1927)
	<i>Pleotrichophorus quadritrichus</i>	Addicott (1978)
	<i>Prociphilus fraxinifolii</i>	Jones (1927)
	<i>Protaphis middletonii</i>	Jones (1927)
	<i>Rhopalosiphum maidis</i>	Jones (1927)
<i>Uroleucon ambrosiae</i>	Jones (1927)	
<i>Uroleucon erigeronense</i>	Jones (1927)	
<i>Formica cinerea lepida</i>	<i>Aphis asclepiadis</i>	Addicott (1979a)
	<i>Aphis salicariae</i>	Addicott (1979a)
	<i>Aphis varians</i>	Addicott (1979a)
<i>Formica cinereofusca</i>	<i>Aphis craccivora</i>	Akyildirim et al. (2014)
	<i>Aphis fabae</i>	Akyildirim et al. (2014)
	<i>Aphis farinosa</i>	Akyildirim et al. (2014)
	<i>Aphis gossypii</i>	Akyildirim et al. (2014)
	<i>Aphis nasturtii</i>	Akyildirim et al. (2014)
	<i>Aphis sambuci</i>	Akyildirim et al. (2014)
	<i>Aphis serpylli</i>	Akyildirim et al. (2014)
	<i>Aphis spiraeicola</i>	Akyildirim et al. (2014)
	<i>Aphis verbasci</i>	Akyildirim et al. (2014)
	<i>Brachycaudus cardui</i>	Akyildirim et al. (2014)
	<i>Brachycaudus helichrysi</i>	Akyildirim et al. (2014)
	<i>Brachycaudus lychnidis</i>	Akyildirim et al. (2014)
	<i>Brachyunguis tamaricis</i>	Akyildirim et al. (2014)
	<i>Chaitophorus longisetosus</i>	Akyildirim et al. (2014)
	<i>Cinara acutirostris</i>	Akyildirim et al. (2014)
	<i>Cinara maritimae</i>	Akyildirim et al. (2014)
	<i>Cinara pilicornis</i>	Akyildirim et al. (2014)
	<i>Cinara pruinosa</i>	Akyildirim et al. (2014)
	<i>Myzus lythri</i>	Akyildirim et al. (2014)
<i>Nearctaphis bakeri</i>	Akyildirim et al. (2014)	

	<i>Periphyllus aceris</i>	Akyildirim et al. (2014)
	<i>Pterocallis albidus</i>	Akyildirim et al. (2014)
	<i>Pterocallis alni</i>	Akyildirim et al. (2014)
	<i>Schizaphis miscanthi</i>	Akyildirim et al. (2014)
	<i>Schizolachnus pineti</i>	Akyildirim et al. (2014)
	<i>Sipha maydis</i>	Akyildirim et al. (2014)
	<i>Symydobius oblongus</i>	Akyildirim et al. (2014)
	<i>Toxoptera aurantii</i>	Akyildirim et al. (2014)
<i>Formica coloradensis</i>	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Formica comata</i>	<i>Cinara apini</i>	Jones (1927)
	<i>Cinara schwarzii</i>	Jones (1927)
	<i>Cinara splendens</i>	Jones (1927)
<i>Formica cunicularia</i>	<i>Aphis pomi</i>	Novgorodova (2005)
	<i>Chaitophorus albus</i>	Novgorodova (2005)
	<i>Chaitophorus populeti</i>	Novgorodova (2005)
	<i>Chaitophorus populialbae</i>	Novgorodova (2005)
	<i>Cinara boernerii</i>	Novgorodova (2005)
	<i>Cinara pini</i>	Novgorodova (2005)
	<i>Macrosiphoniella pulvera</i>	Novgorodova (2005)
<i>Formica cunicularia</i>	<i>Acyrtosiphon pisum</i>	Mortazavi et al. (2015)
	<i>Acyrtosiphon rubi</i>	Mortazavi et al. (2015)
	<i>Aphis acetosae</i>	Mortazavi et al. (2015)
	<i>Aphis brotericola</i>	Akyürek et al. (2016)
	<i>Aphis craccivora</i>	Özdemir et al. (2008), Mortazavi et al. (2015)
	<i>Aphis fabae</i>	Akyürek et al. (2016)
	<i>Aphis nasturtii</i>	Akyürek et al. (2016)
	<i>Aphis solanella</i>	Akyürek et al. (2016)
	<i>Aphis spiraeicola</i>	Akyürek et al. (2016)
	<i>Brachycaudus tragopogonis</i>	Mortazavi et al. (2015)
	<i>Cinara palaestinesis</i>	LATIBARI et al. (2016)
	<i>Macrosiphum rosae</i>	Akyürek et al. (2016)
	<i>Sipha maydis</i>	Akyürek et al. (2016)
<i>Formica dakotensis</i>	<i>Chaitophorus populicola</i>	Jones (1927)
	<i>Cinara apini</i>	Jones (1927)
<i>Formica efiniventris</i>	<i>Aphis lugentis</i>	Jones (1927)
	<i>Obtusicauda frigidae</i>	Jones (1927)
<i>Formica fusca</i>	<i>Anuraphis subterranea</i>	Jones (1927)
	<i>Aphis asclepiadis</i>	Jones (1927), Addicott (1979a)
	<i>Aphis craccivora</i>	Akyürek et al. (2016)
	<i>Aphis esulae</i>	Akyürek et al. (2016)
	<i>Aphis fabae</i>	Akyildirim et al. (2014)
	<i>Aphis farinosa</i>	Jones (1927)
	<i>Aphis gossypii</i>	Jones (1927)
<i>Aphis helianthi</i>	Mooney et al. (2015)	



<i>Aphis hermistonii</i>	Jones (1927)
<i>Aphis lugentis</i>	Jones (1927)
<i>Aphis maculatae</i>	Jones (1927)
<i>Aphis medicaginis</i>	Jones (1927)
<i>Aphis oenotherae</i>	Jones (1927)
<i>Aphis pomi</i>	Jones (1927)
<i>Aphis salicariae</i>	Addicott (1979a), Mooney et al. (2015)
<i>Aphis varians</i>	Addicott (1978), Addicott (1979a), Mooney et al. (2015)
<i>Artemisaphis artemisicola</i>	Jones (1927)
<i>Bipersona torticauda</i>	Jones (1927)
<i>Brachycaudus cardui</i>	Jones (1927), Akyildirim et al. (2014)
<i>Brachycaudus persicae</i>	Jones (1927)
<i>Brachyunguis tetrapteralis</i>	Jones (1927)
<i>Braggia eriogoni</i>	Jones (1927)
<i>Ceruraphis viburnicola</i>	Jones (1927)
<i>Chaitophorus macrostachyae</i>	Jones (1927)
<i>Chaitophorus populeti</i>	Novgorodova (2005)
<i>Chaitophorus populialbae</i>	Novgorodova (2005)
<i>Chaitophorus populifolii</i>	Jones (1927)
<i>Chaitophorus viminalis</i>	Jones (1927)
<i>Cinara boernerii</i>	Novgorodova (2005)
<i>Cinara brevispinosa</i>	Jones (1927)
<i>Cinara edulis</i>	Jones (1927)
<i>Cinara loricis</i>	Novgorodova (2005)
<i>Cinara pilicornis</i>	Akyildirim et al. (2014)
<i>Cinara pinea</i>	Novgorodova (2005)
<i>Cinara pini</i>	Novgorodova (2005)
<i>Cinara pseudotsugae</i>	Jones (1927)
<i>Cryptomyzus ribis</i>	Jones (1927)
<i>Drepanosiphum braggii</i>	Jones (1927)
<i>Dysaphis sorbi</i>	Jones (1927)
<i>Macrosiphum chrysothamni</i>	Jones (1927)
<i>Myzaphis rosarum</i>	Jones (1927)
<i>Myzocallis discolor</i>	Jones (1927)
<i>Myzus cerasi</i>	Jones (1927)
<i>Myzus oenotherae</i>	Jones (1927)
<i>Nasonovia houghtonensis</i>	Jones (1927)
<i>Obtusicauda frigidae</i>	Jones (1927)
<i>Periphyllus negundinis</i>	Jones (1927)
<i>Protaphis middletonii</i>	Jones (1927)
<i>Pterocomma bicolor</i>	Jones (1927)
<i>Pterocomma salicis</i>	Jones (1927)
<i>Rhopalosiphum maidis</i>	Jones (1927)

	<i>Tuberolachnus salignus</i>	Jones (1927)
	<i>Uroleucon ambrosiae</i>	Jones (1927)
	<i>Uroleucon erigeronense</i>	Jones (1927)
	<i>Uroleucon kikioense</i>	Akyildirim et al. (2014)
<i>Formica gagates</i>	<i>Aphis farinosa</i>	Akyildirim et al. (2014)
<i>Formica glauca</i>	<i>Aphis craccivora</i>	Özdemir et al. (2008)
	<i>Aphis fabae</i>	Özdemir et al. (2008)
	<i>Aphis galliiscabri</i>	Özdemir et al. (2008)
	<i>Brachycaudus (Appelia) tragopogonis</i>	Özdemir et al. (2008)
	<i>Brachycaudus cardui</i>	Özdemir et al. (2008)
<i>Formica gnava</i>	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Formica incerta</i>	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Formica integroides</i>	<i>Aphis farinosa</i>	Addicott (1978)
	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
	<i>Aphis asclepiadis</i>	Addicott (1979a)
	<i>Aphis salicariae</i>	Addicott (1979a)
	<i>Aphis varians</i>	Addicott (1978), Addicott (1979a)
<i>Formica japonica</i>	<i>Chaitophorus saliniger</i>	Hembry et al. (2006)
	<i>Uroleucon nigrotuberculatum</i>	Ando and Ohgushi (2008)
<i>Formica lasioides</i>	<i>Aphis asclepiadis</i>	Addicott (1979a)
	<i>Aphis salicariae</i>	Addicott (1979a)
	<i>Aphis varians</i>	Addicott (1978), Addicott (1979a)
	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Formica lepida</i>	<i>Aphis asclepiadis</i>	Jones (1927)
	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Formica limata</i>	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Formica lugubris</i>	<i>Cinara pini</i>	Sudd (1983)
<i>Formica montana</i>	<i>Aphis asclepiadis</i>	Jones (1927)
	<i>Aphis oregonensis</i>	Jones (1927)
	<i>Chaitophorus populicola</i>	Jones (1927)
	<i>Cinara medispinosa</i>	Jones (1927)
	<i>Cinara pseudotsugae</i>	Jones (1927)
	<i>Macrosiphum chrysothamni</i>	Jones (1927)
	<i>Pleotrichophorus glandulosus</i>	Jones (1927)
	<i>Pseudoepameibaphis tridentatae</i>	Jones (1927)
<i>Formica munda</i>	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Formica neoclara</i>	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Formica neogagates</i>	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Formica neorufibarbis</i>	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Formica neorufibarbis gelida</i>	<i>Aphis asclepiadis</i>	Addicott (1979a)
	<i>Aphis salicariae</i>	Addicott (1979a)
	<i>Aphis varians</i>	Addicott (1979a)

<i>Formica obscuripes</i>	<i>Aphis asclepiadis</i>	Addicott (1979a)
	<i>Aphis salicariae</i>	Addicott (1979a)
	<i>Aphis varians</i>	Addicott (1978), Addicott (1979a)
	<i>Pleotrichophorus utensis</i>	Billick et al. (2007)
	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
	<i>Uroleucon escalantii</i>	Billick et al. (2007)
<i>Formica opaciventris</i>	<i>Aphis asclepiadis</i>	Jones (1927)
	<i>Aphis medicaginis</i>	Jones (1927)
<i>Formica oreas</i>	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Formica podzolica</i>	<i>Aphis asclepiadis</i>	Mooney et al. (2008), Nielsen et al. (2009), Abdala-Roberts et al. (2012)
	<i>Aphis valerianae</i>	Petry et al. (2012)
<i>Formica polyctena</i>	<i>Aphis brohmeri</i>	Novgorodova (2005)
	<i>Aphis craccivora</i>	Novgorodova (2005)
	<i>Aphis evonymi</i>	Novgorodova (2005)
	<i>Aphis fabae</i>	Novgorodova (2005)
	<i>Aphis jacobaeae</i>	Novgorodova (2005)
	<i>Aphis pomi</i>	Novgorodova (2005)
	<i>Aphis subnitidae</i>	Novgorodova (2005)
	<i>Callipterinella tuberculata</i>	Novgorodova (2005)
	<i>Chaitophorus albitorosus</i>	Novgorodova (2005)
	<i>Chaitophorus albus</i>	Novgorodova (2005)
	<i>Chaitophorus populeti</i>	Novgorodova (2005)
	<i>Chaitophorus populialbae</i>	Novgorodova (2005)
	<i>Chaitophorus salicti</i>	Novgorodova (2005)
	<i>Cinara boernerii</i>	Novgorodova (2005)
	<i>Cinara laricis</i>	Novgorodova (2005)
	<i>Cinara piceae</i>	Novgorodova (2005)
	<i>Cinara pinea</i>	Novgorodova (2005)
	<i>Cinara pini</i>	Novgorodova (2005)
	<i>Glyphina betulae</i>	Novgorodova (2005)
	<i>Macrosiphoniella pulvera</i>	Novgorodova (2005)
<i>Rhopalosiphum padi</i>	Novgorodova (2005)	
<i>Schizaphis gramina</i>	Novgorodova (2005)	
<i>Schizaphis pyri</i>	Novgorodova (2005)	
<i>Symydobius oblongus</i>	Novgorodova (2005)	
<i>Formica pratensis</i>	<i>Aphis craccivora</i>	Novgorodova (2005)
	<i>Chaitophorus nassonowi</i>	Novgorodova (2005)
	<i>Chaitophorus populeti</i>	Novgorodova (2005)
	<i>Cinara boernerii</i>	Novgorodova (2005)
	<i>Cinara laricis</i>	Novgorodova (2005)
	<i>Cinara pinea</i>	Novgorodova (2005)
	<i>Cinara pini</i>	Novgorodova (2005)
<i>Symydobius oblongus</i>	Novgorodova (2005)	
<i>Formica propinqua</i>	<i>Chaitophorus populicola</i>	Wimp and Whitham (2001)

<i>Formica puberula</i>	<i>Aphis salicariae</i>	Addicott (1979a)
	<i>Aphis varians</i>	Addicott (1979a)
	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Formica ravidata</i>	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Formica rubicunda</i>	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Formica rufa</i>	<i>Aphis helianthi</i>	Mooney et al. (2015)
	<i>Aphis medicaginis</i>	Jones (1927)
	<i>Aphis salicariae</i>	Mooney et al. (2015)
	<i>Aphis valerianae</i>	Jones (1927)
	<i>Aphis varians</i>	Mooney et al. (2015)
	<i>Brachycaudus cardui</i>	Jones (1927)
	<i>Chaitophorus populifolii</i>	Jones (1927)
	<i>Nearctaphis bakeri</i>	Jones (1927)
	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Formica rufibarbis</i>	<i>Aphis pomi</i>	Akyildirim et al. (2014)
	<i>Aphis spiraecola</i>	Akyürek et al. (2016)
	<i>Cinara indica</i>	Akyürek et al. (2016)
	<i>Cinara occidentalis</i>	Akyürek et al. (2016)
	<i>Dysaphis devectora</i>	Akyürek et al. (2016)
	<i>Myzus ornatus</i>	Akyürek et al. (2016)
	<i>Myzus padellus</i>	Akyürek et al. (2016)
	<i>Tuberolachnus salignus</i>	Akyürek et al. (2016)
<i>Formica sanguinea</i>	<i>Chaitophorus populeti</i>	Akyürek et al. (2016)
	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Formica subaenescens</i>	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Formica subintegra</i>	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Formica subsericea</i>	<i>Aphis coreopsidis</i>	Favret et al. (2010)
	<i>Aulacorthum solani</i>	Favret et al. (2010)
	<i>Cinara atlantica</i>	Favret et al. (2010)
	<i>Cinara pinivora</i>	Favret et al. (2010)
	<i>Hyperomyzus nabali</i>	Favret et al. (2010)
	<i>Neomyzus circumflexum</i>	Favret et al. (2010)
	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
	<i>Uroleucon pieloui</i>	Favret et al. (2010)
<i>Formica ulkei</i>	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Formica yessensis</i>	<i>Tuberculatus quercicola</i>	Yao and Akimoto (2001), Yao and Akimoto (2009)
<i>Proformica kobachidzei</i>	<i>Lachnus roboris</i>	Akyildirim et al. (2014)
	<i>Myzus cerasi</i>	Akyildirim et al. (2014)
<i>Proformica piloscapa</i>	<i>Brachycaudus amygdalinus</i>	Mortazavi et al. (2015)
<b>Tribe Lasiini</b>		
<i>Lasius alienus</i>	<i>Aphis fabae</i>	Akyildirim et al. (2014), Akyürek et al. (2016)
	<i>Aphis galliiscabri</i>	Özdemir et al. (2008)
	<i>Aphis gossypii</i>	Akyildirim et al. (2014), Akyürek et al. (2016)

	<i>Aphis idaei</i>	Stary (1969)
	<i>Aphis maidi-radicis</i>	Forbes (1906)
	<i>Aphis molluginis</i>	Akyildirim et al. (2014)
	<i>Aphis nasturtii</i>	Özdemir et al. (2008)
	<i>Aphis pomi</i>	Akyürek et al. (2016)
	<i>Aphis pseudocardui</i>	Akyürek et al. (2016)
	<i>Aphis solanella</i>	Akyürek et al. (2016)
	<i>Aphis urticata</i>	Akyürek et al. (2016)
	<i>Aphis verbasci</i>	Özdemir et al. (2008), Akyürek et al. (2016)
	<i>Brachycaudus (Appelia) tragopogonis</i>	Özdemir et al. (2008)
	<i>Brachycaudus cardui</i>	Akyürek et al. (2016)
	<i>Capitophorus hippophaes</i>	Özdemir et al. (2008)
	<i>Chaitophorus kapuri</i>	Akyildirim et al. (2014)
	<i>Cinara atlantica</i>	Favret et al. (2010)
	<i>Cinara palaestinesis</i>	LATIBARI et al. (2016)
	<i>Cinara pini</i>	LATIBARI et al. (2016)
	<i>Dysaphis foeniculus</i>	Akyürek et al. (2016)
	<i>Dysaphis pyri</i>	Akyildirim et al. (2014)
	<i>Myzus cerasi</i>	Akyürek et al. (2016)
	<i>Neobetulaphis pusilla</i>	Akyildirim et al. (2014)
	<i>Periphyllus bulgaricus</i>	Mortazavi et al. (2015)
	<i>Rhopalosiphum cerasifoliae</i>	Favret et al. (2010)
	<i>Rhopalosiphum maidis</i>	Barton and Ives (2014)
	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
	<i>Sipha maydis</i>	Akyürek et al. (2016)
	<i>Toxoptera aurantii</i>	Akyildirim et al. (2014)
<i>Lasius americanus</i>	<i>Pemphigus lasii</i>	Palmer (1952), Cockerell (1903)
	<i>Forda marginata</i>	Cockerell (1903)
<i>Lasius brunneus</i>	<i>Aphis craccivora</i>	Akyürek et al. (2016)
	<i>Aphis fabae</i>	Akyürek et al. (2016)
	<i>Aphis hillerislambersi</i>	Akyürek et al. (2016)
	<i>Aphis middletonii</i>	Akyürek et al. (2016)
	<i>Aphis nasturtii</i>	Akyürek et al. (2016)
	<i>Aphis pomi</i>	Akyürek et al. (2016)
	<i>Aphis spiraecola</i>	Akyürek et al. (2016)
	<i>Brachycaudus cardui</i>	Akyürek et al. (2016)
	<i>Cinara cedri</i>	Akyürek et al. (2016)
	<i>Cinara cupressi</i>	Akyürek et al. (2016)
	<i>Cinara tujafilina</i>	Akyürek et al. (2016)
	<i>Dysaphis plantaginea</i>	Akyürek et al. (2016)
	<i>Hyalopterus pruni</i>	Akyürek et al. (2016)
	<i>Lachnus roboris</i>	Akyürek et al. (2016)
	<i>Periphyllus aceris</i>	Akyürek et al. (2016)
	<i>Pterocomma populeum</i>	Akyürek et al. (2016)

	<i>Schizaphis pyri</i>	Akyürek et al. (2016)
	<i>Sitobion fragariae</i>	Akyürek et al. (2016)
	<i>Thelexes suberi</i>	Akyürek et al. (2016)
	<i>Uroleucon kashmiricum</i>	Akyürek et al. (2016)
<i>Lasius claviger</i>	<i>Forda marginata</i>	Cockerell (1903)
	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Lasius emarginatus</i>	<i>Anoecia corni</i>	Akyildirim et al. (2014)
	<i>Aphis fabae</i>	Akyildirim et al. (2014)
	<i>Aphis gossypii</i>	Akyildirim et al. (2014)
	<i>Aphis impatientis</i>	Akyildirim et al. (2014)
	<i>Aphis longituba</i>	Akyildirim et al. (2014)
	<i>Aphis nasturtii</i>	Akyildirim et al. (2014)
	<i>Aphis spiraecola</i>	Akyildirim et al. (2014)
	<i>Brachycaudus cardui</i>	Akyildirim et al. (2014)
	<i>Brachycaudus schwartzi</i>	Akyildirim et al. (2014)
	<i>Chaitophorus longisetosus</i>	Akyildirim et al. (2014)
	<i>Cinara pini</i>	Akyildirim et al. (2014)
	<i>Myzus cerasi</i>	Akyildirim et al. (2014)
	<i>Myzus lythri</i>	Akyildirim et al. (2014)
	<i>Periphyllus aceris</i>	Akyildirim et al. (2014)
<i>Thelexes californica</i>	Akyildirim et al. (2014)	
<i>Lasius flavus</i>	<i>Forda marginata</i>	Cockerell (1903)
<i>Lasius fuji</i>	<i>Stomaphis yanonis</i>	Endo and Itino (2013)
<i>Lasius fuliginosus</i>	<i>Chaitophorus populeti</i>	Novgorodova (2005)
	<i>Chaitophorus vitellinae</i>	Molnar et al. (2000)
	<i>Cinara boernerii</i>	Novgorodova (2005)
	<i>Cinara laticis</i>	Novgorodova (2005)
	<i>Cinara pinea</i>	Novgorodova (2005)
	<i>Lachnus tropicalis</i>	Zhang et al. (2015)
	<i>Pterocomma pilosum</i>	Molnar et al. (2000)
	<i>Pterocomma rufipes</i>	Molnar et al. (2000)
	<i>Stomaphis japonica</i>	Zhang et al. (2015)
	<i>Stomaphis quercus</i>	Novgorodova (2005)
<i>Symydobius oblongus</i>	Novgorodova (2005)	
<i>Lasius grandis</i>	<i>Lachnus roboris</i>	Paris and Espadaler (2009)
<i>Lasius japonicus</i>	<i>Aphis craccivora</i>	Suzuki et al. (2004), Katayama et al. (2013)
	<i>Chaitophorus saliniger</i>	Hembry et al. (2006)
<i>Lasius latipes</i>	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Lasius nearcticus</i>	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
	<i>Lachnus roboris</i>	Paris and Espadaler (2009)
<i>Lasius neoniger</i>	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Lasius niger</i>	<i>Aphis cracciae</i>	Novgorodova (2005)
	<i>Aphis craccivora</i>	Novgorodova (2005), Kataria and Kumar (2013)
	<i>Aphis fabae</i>	Liepert and Dettner (1993), Volkl et al.

		(1999), Offenberg (2001), Woodring et al. (2004), Fischer et al. (2005), Detrain et al. (2010), Sanders and Frank (2010), Tegelaar et al. (2012), Tegelaar et al. (2013), Fischer et al. (2015), Tegelaar (2015), Vantaux et al. (2015),
	<i>Aphis gossypii</i>	Kaneko (2003)
	<i>Aphis idaei</i>	Novgorodova (2005)
	<i>Aphis jacobaeae</i>	Vrieling et al. (1991), Müller and Godfray (1999)
	<i>Aphis pomi</i>	Novgorodova (2005)
	<i>Aphis vanderghooti</i>	Woodring et al. (2004)
	<i>Aphis viburni</i>	Novgorodova (2005)
	<i>Brachycaudus cardui</i>	Volkl et al. (1999), Müller and Godfray (1999), Woodring et al. (2004)
	<i>Callipterinella tuberculata</i>	Novgorodova (2005)
	<i>Chaitophorus albus</i>	Novgorodova (2005)
	<i>Chaitophorus populeti</i>	Fischer and Shingleton (2001), Novgorodova (2005)
	<i>Chaitophorus populialbae</i>	Fischer and Shingleton (2001), Novgorodova (2005)
	<i>Chaitophorus tremulae</i>	Novgorodova (2005)
	<i>Chromaphis obiensis</i>	Novgorodova (2005)
	<i>Cinara pini</i>	Novgorodova (2005)
	<i>Dysaphis plantaginea</i>	Nagy et al. (2015)
	<i>Lachnus tropicalis</i>	Sakata (1995)
	<i>Metopeurum fuscoviride</i>	Volkl et al. (1999), Fischer et al. (2002), Woodring et al. (2004)
	<i>Myzocallis kuricola</i>	Sakata (1995)
	<i>Symydobius oblongus</i>	Novgorodova (2005)
	<i>Trama troglodytes</i>	Woodring et al. (2004)
<i>Lasius pallitarsis</i>	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Lasius paralienus</i>	<i>Aphis craccivora</i>	Özdemir et al. (2008), Shiran et al. (2013)
	<i>Aphis fabae</i>	Özdemir et al. (2008), Shiran et al. (2013)
	<i>Aphis frangulae</i>	Shiran et al. (2013)
	<i>Aphis galliiscabri</i>	Özdemir et al. (2008)
	<i>Aphis gossypii</i>	Özdemir et al. (2008)
	<i>Aphis rumicis</i>	Özdemir et al. (2008)
	<i>Aphis umbrella</i>	Shiran et al. (2013)
	<i>Brachycaudus cardui</i>	Özdemir et al. (2008)
	<i>Chaitophorus longisetosus</i>	Akyildirim et al. (2014)
	<i>Chaitophorus populeti</i>	Shiran et al. (2013)
	<i>Chaitophorus populialbae</i>	Shiran et al. (2013)
	<i>Chaitophorus remaudierei</i>	Shiran et al. (2013)
	<i>Chaitophorus truncates</i>	Shiran et al. (2013)
	<i>Cinara palaestinesis</i>	Shiran et al. (2013)
	<i>Cinara palaestinesis</i>	LATIBARI et al. (2016)

	<i>Cinara pini</i>	LATIBARI et al. (2016)
	<i>Hyadaphis foeniculi</i>	Özdemir et al. (2008)
	<i>Hyalopterus pruni</i>	Shiran et al. (2013)
	<i>Myzus persicae</i>	Shiran et al. (2013)
	<i>Pterochloroides persicae</i>	Shiran et al. (2013)
<i>Lasius productus</i>	<i>Stomaphis hirukawai</i>	Matsuura and Yashiro (2006)
	<i>Acyrtosiphon gossypii</i>	Mortazavi et al. (2015)
	<i>Acyrtosiphon pisum</i>	Akyildirim et al. (2014), Akyürek et al. (2016)
	<i>Anoecia corni</i>	Akyildirim et al. (2014)
	<i>Aphis brunellae</i>	Akyürek et al. (2016)
	<i>Aphis craccivora</i>	Özdemir et al. (2008), Mortazavi et al. (2015)
	<i>Aphis fabae</i>	Akyildirim et al. (2014), Akyürek et al. (2016)
	<i>Aphis farinosa</i>	Akyildirim et al. (2014)
	<i>Aphis gossypii</i>	Akyildirim et al. (2014), Akyürek et al. (2016)
	<i>Aphis pomi</i>	Akyürek et al. (2016)
	<i>Aphis sambuci</i>	Akyildirim et al. (2014)
	<i>Aphis spiraeicola</i>	Akyildirim et al. (2014), Akyürek et al. (2016)
	<i>Brachycaudus amygdalinus</i>	Mortazavi et al. (2015)
	<i>Brachycaudus cardui</i>	Akyildirim et al. (2014), Akyürek et al. (2016)
<i>Lasius turcicus</i>	<i>Brachycaudus helichrysi</i>	Akyürek et al. (2016)
	<i>Chaetosiphon tetraerhodum</i>	Akyildirim et al. (2014)
	<i>Chaitophorus hillerislamberti</i>	Mortazavi et al. (2015)
	<i>Chaitophorus salicti</i>	Akyildirim et al. (2014)
	<i>Cinara cupressi</i>	Akyürek et al. (2016)
	<i>Cinara pilicornis</i>	Akyildirim et al. (2014)
	<i>Cinara pini</i>	Akyildirim et al. (2014)
	<i>Cinara tujafilina</i>	Akyürek et al. (2016)
	<i>Myzus cerasi</i>	Akyildirim et al. (2014), Akyürek et al. (2016)
	<i>Myzus lythri</i>	Akyildirim et al. (2014)
	<i>Myzus varians</i>	Akyürek et al. (2016)
	<i>Neobetulaphis pusilla</i>	Akyildirim et al. (2014)
	<i>Phleomyzus passerini</i>	Akyildirim et al. (2014)
	<i>Protaphis terricola</i>	Özdemir et al. (2008)
	<i>Pterochloroides persicae</i>	Akyildirim et al. (2014)
	<i>Pterocomma populeum</i>	Akyürek et al. (2016)
	<i>Toxoptera aurantii</i>	Akyildirim et al. (2014)
<i>Nylanderia fulva</i>	<i>Aphis craccivora</i>	Sharma et al. (2013)
	<i>Aphis vernoniae</i>	Sharma et al. (2013)
	<i>Chaitophorus viminicola</i>	Sharma et al. (2013)



	<i>Cinara juniperivora</i>	Sharma et al. (2013)
	<i>Sanbornia juniperi</i>	Sharma et al. (2013)
	<i>Shivaphis celti</i>	Sharma et al. (2013)
<i>Paratrechina bourbonica</i>	<i>Aphis gossypii</i>	Idechiil et al. (2007)
	<i>Pentalonia nigronervosa</i>	Idechiil et al. (2007)
<i>Paratrechina longicornis</i>	<i>Aphis coreopsidis</i>	Favret et al. (2010)
	<i>Aphis craccivora</i>	Shiran et al. (2013), Rakhshan and Ahmad (2015)
	<i>Aphis gossypii</i>	Idechiil et al. (2007), Lokeshwari et al. (2015)
<i>Paratrechina parvula</i>	<i>Aphis coreopsidis</i>	Favret et al. (2010)
<i>Paratrechina vaga</i>	<i>Aphis clerodendri</i>	Carver et al. (2003)
<b>Tribe Melophorini</b>		
<i>Notoncus capitatus</i>	<i>Aphis clerodendri</i>	Carver et al. (2003)
<b>Tribe Myrmelachistini</b>		
<i>Brachymyrmex patagonica</i>	<i>Brachycaudus cardui</i>	Lescano et al. (2015)
<b>Tribe Plagiolepidini</b>		
<i>Acantholepis sp.</i>	<i>Aphis nerii</i>	Sary (1969)
	<i>Chaitophorus sp.</i>	Sary (1969)
	<i>Lachnus sp.</i>	Sary (1969)
	<i>Thelaxes suberis</i>	Sary (1969)
<i>Anoplolepis gracilipes</i>	<i>Aphis gossypii</i>	Idechiil et al. (2007)
	<i>Pentalonia nigronervosa</i>	Idechiil et al. (2007)
<i>Lepisiota bipartite</i>	<i>Aphis craccivora</i>	Shiran et al. (2013)
	<i>Aphis fabae</i>	Shiran et al. (2013)
	<i>Aphis frangulae</i>	Shiran et al. (2013)
	<i>Aphis nasturtii</i>	Shiran et al. (2013)
	<i>Aphis nerii</i>	Shiran et al. (2013)
	<i>Aphis parietariae</i>	Shiran et al. (2013)
	<i>Aphis punicae</i>	Shiran et al. (2013)
	<i>Aphis umbrella</i>	Shiran et al. (2013)
	<i>Chaitophorus euphraticus</i>	Shiran et al. (2013)
	<i>Chaitophorus truncates</i>	Shiran et al. (2013)
	<i>Hyalopterus pruni</i>	Shiran et al. (2013)
	<i>Myzus persicae</i>	Shiran et al. (2013)
	<i>Pterochloroides persicae</i>	Shiran et al. (2013)
	<i>Rhopalosiphum maidis</i>	Shiran et al. (2013)
<i>Rhopalosiphum padi</i>	Shiran et al. (2013)	
<i>Lepisiota dolabellae</i>	<i>Acyrtosiphon pisum</i>	Mortazavi et al. (2015)
	<i>Brachycaudus tragopogonis</i>	Mortazavi et al. (2015)
<i>Lepisiota frauenfeldi</i>	<i>Aphis craccivora</i>	Rakhshan and Ahmad (2015)
	<i>Pterochloroides persicae</i>	Mortazavi et al. (2015)
<i>Lepisiota nigra</i>	<i>Aphis fabae</i>	Mortazavi et al. (2015)
	<i>Aphis gossypii</i>	Mortazavi et al. (2015)
	<i>Brachycaudus helichrysi</i>	Mortazavi et al. (2015)

	<i>Brachycaudus tragopogonis</i>	Mortazavi et al. (2015)
	<i>Chaitophorus israeliticus</i>	Mortazavi et al. (2015)
	<i>Cinara pini</i>	LATIBARI et al. (2016)
	<i>Hyalopterus amygdali</i>	Mortazavi et al. (2015)
	<i>Macrosiphon rosae</i>	Mortazavi et al. (2015)
	<i>Periphyllus bulgaricus</i>	Mortazavi et al. (2015)
	<i>Pterochloroides persicae</i>	Mortazavi et al. (2015)
	<i>Schizaphis nigerrima</i>	Mortazavi et al. (2015)
	<i>Acyrtosiphon pisum</i>	Mortazavi et al. (2015)
<i>Plagiolepis pallescens</i>	<i>Aphis craccivora</i>	Özdemir et al. (2008), Shiran et al. (2013)
	<i>Aphis fabae</i>	Shiran et al. (2013)
	<i>Aphis frangulae</i>	Shiran et al. (2013)
	<i>Brachycaudus (Appelia) tragopogonis</i>	Özdemir et al. (2008)
	<i>Brachycaudus tragopogonis</i>	Mortazavi et al. (2015)
	<i>Callaphis juglandis</i>	Mortazavi et al. (2015)
	<i>Hyalopterus amygdali</i>	Shiran et al. (2013)
	<i>Tinocallis platani</i>	Shiran et al. (2013)
		<i>Aphis craccivora</i>
<i>Plagiolepis pygmaea</i>	<i>Aphis fabae</i>	Akyürek et al. (2016)
	<i>Aphis gerardianae</i>	Akyürek et al. (2016)
	<i>Aphis gossypii</i>	Akyürek et al. (2016)
	<i>Aphis spiraecola</i>	Akyürek et al. (2016)
	<i>Brachycaudus cardui</i>	Akyürek et al. (2016)
		<i>Aphis spiraecola</i>
<i>Plagiolepis taurica</i>	<i>Toxoptera aurantii</i>	Akyildirim et al. (2014)
	<i>Plagiolepis vindobonensis</i>	<i>Staegeriella necopinata</i>
<b>Subfamily Myrmicinae</b>		
<b>Tribe Attini</b>		
<i>Pheidole bicarinata</i>	<i>Aphis asclepiadis</i>	Jones (1927)
	<i>Thecabius populimonilis</i>	Jones (1927)
<i>Pheidole fervens</i>	<i>Aphis gossypii</i>	Idechiil et al. (2007)
<i>Pheidole pallidula</i>	<i>Aphis davletshinae</i>	Shiran et al. (2013)
	<i>Aphis frangulae</i>	Shiran et al. (2013)
	<i>Aphis umbrella</i>	Shiran et al. (2013)
	<i>Cinara palaestinesis</i>	LATIBARI et al. (2016)
	<i>Myzus persicae</i>	Shiran et al. (2013)
	<i>Aphis nerii</i>	Sary (1969)
	<i>Thelaxes suberis</i>	Sary (1969)
<i>Pheidole pilifera</i>	<i>Pemphigus populiramulorum</i>	Jones (1927)
<i>Pheidole teneriffana</i>	<i>Aphis craccivora</i>	Shiran et al. (2013)
	<i>Aphis umbrella</i>	Shiran et al. (2013)
<b>Tribe Crematogastrini</b>		
<i>Cardiocondyla emeryi</i>	<i>Pentalonia nigronervosa</i>	Idechiil et al. (2007)

<i>Cardiocondyla shalbergi</i>	<i>Cinara pini</i>	LATIBARI et al. (2016)
<i>Cardiocondyla wroughtonii</i>	<i>Pentalonia nigronervosa</i>	Idechiil et al. (2007)
<i>Crematogaster scutellaris</i>	<i>Aphis fabae</i>	Akyürek et al. (2016)
	<i>Aphis pomi</i>	Akyürek et al. (2016)
	<i>Aphis spiraeicola</i>	Akyürek et al. (2016)
	<i>Pterocomma rufipes</i>	Akyürek et al. (2016)
<i>Crematogaster antaris</i>	<i>Aphis craccivora</i>	Shiran et al. (2013)
	<i>Aphis farinosa</i>	Shiran et al. (2013)
	<i>Aphis frangulae</i>	Shiran et al. (2013)
	<i>Chaitophorus truncates</i>	Shiran et al. (2013)
	<i>Myzus persicae</i>	Shiran et al. (2013)
<i>Crematogaster auberti</i>	<i>Thelexes suberis</i>	Sary (1969)
<i>Crematogaster inermis</i>	<i>Acyrtosiphon gossypii</i>	Mortazavi et al. (2015)
	<i>Acyrtosiphon pisum</i>	Mortazavi et al. (2015)
	<i>Aphis craccivora</i>	Mortazavi et al. (2015)
	<i>Aphis gossypii</i>	Mortazavi et al. (2015)
	<i>Aphis pseudocardui</i>	Mortazavi et al. (2015)
	<i>Brachycaudus tragopogonis</i>	Mortazavi et al. (2015)
	<i>Callaphis juglandis</i>	Mortazavi et al. (2015)
<i>Chaitophorus israeliticus</i>	Mortazavi et al. (2015)	
<i>Crematogaster laeviuscula</i>	<i>Cinara ponderosae</i>	Jones (1927)
<i>Crematogaster lineolata</i>	<i>Aphis coreopsidis</i>	Favret et al. (2010)
	<i>Aphis fabae</i>	Favret et al. (2010)
	<i>Aphis gossypii</i>	Favret et al. (2010)
	<i>Capitophorus elaeagni</i>	Favret et al. (2010)
	<i>Chaitophorus viminicola</i>	Favret et al. (2010)
	<i>Cinara edulis</i>	Jones (1927)
	<i>Cinara murrayanae</i>	Jones (1927)
	<i>Cinara schwarzii</i>	Jones (1927)
<i>Lachnus ater</i>	Jones (1927)	
<i>Crematogaster schmidti</i>	<i>Aphis craccivora</i>	Mortazavi et al. (2015)
	<i>Aphis pseudocardui</i>	Mortazavi et al. (2015)
	<i>Chaitophorus israeliticus</i>	Mortazavi et al. (2015)
	<i>Thelexes californica</i>	Akyildirim et al. (2014)
<i>Crematogaster scutellaris</i>	<i>Chaitophorus melanosiphon</i>	Akyürek et al. (2016)
<i>Crematogaster sordidula</i>	<i>Brachycaudus cardui</i>	Özdemir et al. (2008), Mortazavi et al. (2015)
	<i>Thelexes suberis</i>	Sary (1969)
<i>Crematogaster subdentata</i>	<i>Aphis craccivora</i>	Mortazavi et al. (2015)
	<i>Cinara pini</i>	LATIBARI et al. (2016)
	<i>Periphyllus bulgaricus</i>	Mortazavi et al. (2015)
	<i>Tuberculatus maximus</i>	Mortazavi et al. (2015)
<i>Crematogaster warburgi</i>	<i>Chaitophorus sp.</i>	Sary (1969)
<i>Leptothorax muscorum</i>	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Lophomyrmex</i>	<i>Aphis gossypii</i>	Lokeshwari et al. (2015)

<i>quadrispinosus</i>		
<i>Meranoplus bicolor</i>	<i>Aphis craccivora</i>	Rakhshan and Ahmad (2015)
<i>Myrmecina graminicola</i>	<i>Aphis forbesi</i>	Jones (1927)
	<i>Chaitophorus viminalis</i>	Jones (1927)
<i>Pristomyrmex punctatus</i>	<i>Aphis craccivora</i>	Katayama et al. (2013)
<i>Pristomyrmex pungens</i>	<i>Aphis gossypii</i>	Kaneko (2003)
<i>Tetramorium bicarinatum</i>	<i>Aphis gossypii</i>	Idechiil et al. (2007)
	<i>Pentalonia nigronervosa</i>	Idechiil et al. (2007)
<i>Tetramorium caespitum</i>	<i>Aphis fabae</i>	Shiran et al. (2013), Akyildirim et al. (2014)
	<i>Aphis farinosa</i>	Akyildirim et al. (2014)
	<i>Aphis gossypii</i>	Akyildirim et al. (2014)
	<i>Aphis salviae</i>	Akyürek et al. (2016)
	<i>Aphis spiraecola</i>	Akyürek et al. (2016)
	<i>Brachycaudus cardui</i>	Akyürek et al. (2016)
	<i>Macrosiphoniella sanborni</i>	Akyildirim et al. (2014)
<i>Tetramorium chefteki</i>	<i>Myzus lythri</i>	Akyürek et al. (2016)
	<i>Aphis craccivora</i>	Özdemir et al. (2008), Mortazavi et al. (2015)
<i>Tetramorium forte</i>	<i>Aphis rumicis</i>	Özdemir et al. (2008)
	<i>Aphis craccivora</i>	Özdemir et al. (2008)
	<i>Aphis rumicis</i>	Özdemir et al. (2008)
	<i>Brachycaudus cardui</i>	Akyildirim et al. (2014)
	<i>Cinara pilicornis</i>	Akyildirim et al. (2014)
<i>Tetramorium semilaeve</i>	<i>Uroleucon sonchi</i>	Akyürek et al. (2016)
<i>Tetramorium tsushimae</i>	<i>Paraclsetus cimiciformis</i>	Salazar et al. (2015)
<i>Tetramorium tsushimae</i>	<i>Aphis craccivora</i>	Suzuki et al. (2004), Katayama et al. (2013), Hayashi et al. (2015), Hayashi et al. (2016)
	<i>Aphis fabae</i>	Hayashi et al. (2015)
<b>Tribe Myrmicini</b>		
<i>Myrmica incompleta</i>	<i>Aphis asclepiadis</i>	Jones (1927)
	<i>Aphis gossypii</i>	Jones (1927)
	<i>Aphis medicaginis</i>	Jones (1927)
	<i>Aphis pomi</i>	Jones (1927)
	<i>Aphis populicola</i>	Jones (1927)
	<i>Aphis rumicis</i>	Jones (1927)
	<i>Artemisaphis artemisicola</i>	Jones (1927)
	<i>Brachycaudus cardui</i>	Jones (1927)
	<i>Brachycaudus prunicola</i>	Jones (1927)
	<i>Chaitophorus macrostachyae</i>	Jones (1927)
	<i>Chaitophorus populicola</i>	Jones (1927)
	<i>Cinara oregonensis</i>	Jones (1927)
	<i>Eriosoma crataegi</i>	Jones (1927)
	<i>Protaphis middletonii</i>	Jones (1927)
	<i>Pterocomma bicolor</i>	Jones (1927)
<i>Pterocomma salicis</i>	Jones (1927)	

	<i>Rhopalosiphum maidis</i>	Jones (1927)
	<i>Uroleucon ambrosiae</i>	Jones (1927)
	<i>Wahlgreniella nervata</i>	Jones (1927)
<i>Myrmica punctiventris</i>	<i>Aphis illinoisensis</i>	Favret et al. (2010)
	<i>Aphis lugentis</i>	Favret et al. (2010)
	<i>Drepanaphis nigricans</i>	Favret et al. (2010)
<i>Myrmica rubra</i>	<i>Cinara apini</i>	Jones (1927)
	<i>Aphis fabae</i>	Akyildirim et al. (2014)
<i>Myrmica ruginodis</i>	<i>Aphis jacobaeae</i>	Müller and Godfray (1999)
	<i>Brachycaudus cardui</i>	Müller and Godfray (1999), Akyildirim et al. (2014)
	<i>Aphis asclepiadis</i>	Jones (1927)
	<i>Aphis forbesi</i>	Jones (1927)
<i>Myrmica scabrinodis</i>	<i>Brachycaudus helichrysi</i>	Akyildirim et al. (2014)
	<i>Brachycaudus persicae</i>	Jones (1927)
	<i>Cinara brevispinosa</i>	Jones (1927)
	<i>Cryptomyzus ribis</i>	Jones (1927)
	<i>Drepanaphis acerifoliae</i>	Jones (1927)
	<i>Aphis asclepiadis</i>	Jones (1927)
<i>Myrmica whymperei</i>	<i>Aphis farinosa</i>	Jones (1927)
	<i>Aphis oenotherae</i>	Jones (1927)
	<i>Aphis rumicis</i>	Jones (1927)
	<i>Chaitophorus viminalis</i>	Jones (1927)
<i>Pogonomyrmex occidentalis</i>	<i>Hyalopterus pruni</i>	Jones (1927)
	<i>Myzus persicae</i>	Jones (1927)
<b>Tribe Solenopsidini</b>		
	<i>Aphis craccivora</i>	Shiran et al. (2013)
<i>Monomorium destructor</i>	<i>Aphis frangulae</i>	Shiran et al. (2013)
	<i>Chaitophorus euphraticus</i>	Shiran et al. (2013)
<i>Monomorium floricola</i>	<i>Aphis gossypii</i>	Idechiil et al. (2007)
	<i>Aphis nerii</i>	Stary (1969)
<i>Monomorium gracillimum</i>	<i>Uroleucon Dactynotus</i>	Stary (1969)
<i>Monomorium latinode</i>	<i>Aphis craccivora</i>	Rakhshan and Ahmad (2015)
	<i>Aphis fabae</i>	Shiran et al. (2013)
<i>Monomorium libanicum</i>	<i>Aphis frangulae</i>	Shiran et al. (2013)
	<i>Aphis craccivora</i>	Shiran et al. (2013)
	<i>Aphis fabae</i>	Shiran et al. (2013)
	<i>Aphis frangulae</i>	Shiran et al. (2013)
<i>Monomorium mayri</i>	<i>Aphis nerii</i>	Shiran et al. (2013)
	<i>Aphis polygonata</i>	Shiran et al. (2013)
	<i>Chaitophorus euphraticus</i>	Shiran et al. (2013)
	<i>Hyalopterus amygdali</i>	Shiran et al. (2013)
	<i>Myzus persicae</i>	Shiran et al. (2013)
	<i>Rhopalosiphum maidis</i>	Shiran et al. (2013)
<i>Monomorium minimum</i>	<i>Aphis craccivora</i>	Kataria and Kumar (2013)

	<i>Aphis fabae</i>	Kataria and Kumar (2013)
	<i>Aphis gossypii</i>	Kataria and Kumar (2013)
	<i>Aphis nerii</i>	Kataria and Kumar (2013)
	<i>Rhopalosiphum nymphaeae</i>	Jones (1927)
<i>Monomorium monomorium</i>	<i>Aphis gossypii</i>	Idechiil et al. (2007)
<i>Monomorium nitidiventre</i>	<i>Aphis craccivora</i>	Mortazavi et al. (2015)
<i>Monomorium pharaonis</i>	<i>Aphis craccivora</i>	Rakhshan and Ahmad (2015)
<i>Monomorium qarahe</i>	<i>Aphis fabae</i>	Shiran et al. (2013)
	<i>Aphis frangulae</i>	Shiran et al. (2013)
	<i>Rhopalosiphum maidis</i>	Shiran et al. (2013)
<i>Solenopsis geminata</i>	<i>Aphis gossypii</i>	Idechiil et al. (2007), Lokeshwari et al. (2015)
<i>Solenopsis invicta</i>	<i>Myzus persicae</i>	Zhou (2012), Zhou (2014)
<i>Solenopsis richteri</i>	<i>Brachycaudus cardui</i>	Lescano et al. (2015)
<i>Messor orientalis</i>	<i>Chaitophorus israeliticus</i>	Mortazavi et al. (2015)
<i>Myrmicaria brunnea</i>	<i>Aphis gossypii</i>	Lokeshwari et al. (2015)
<b>Tribe Stenammini</b>		
<i>Aphaenogaster kurdica</i>	<i>Brachycaudus helichrysi</i>	Mortazavi et al. (2015)
<b>Subfamily Pseudomyrmecinae</b>		
<i>Tetraponera rufonigra</i>	<i>Aphis craccivora</i>	Rakhshan and Ahmad (2015)