



New records of Chalcidoidea (Hymenoptera) from the Maltese Islands with an updated checklist

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Abstract

Thirty-three species of Chalcidoidea (Hymenoptera) are newly recorded from the Maltese Islands, of which, 19 include host data. An updated checklist for the 181 chalcidoid species recorded from Malta is also included, which belong to 17 families as follows: Agaonidae (3), Aphelinidae (21, 1 as new record), Azotidae (1), Chalcididae (8 species, 5 as new records), Encyrtidae (24, 1 as new record), Eulophidae (51, 16 are new records), Eupelmidae (9, 2 as new records), Eurytomidae (6, 1 as new record), Leucospidae (4), Megastigmidae (1), Mymaridae (2), Ormyridae (1), Perilampidae (1 new record), Pteromalidae (39, 5 as new records), Signiphoridae (2), Tetracampidae (1) and Torymidae (7, 1 as new record).

Key words: Malta, Agaonidae, Aphelinidae, Azotidae, Chalcididae, Encyrtidae, Eulophidae, Eupelmidae, Eurytomidae, Leucospidae, Megastigmidae, Mymaridae, Ormyridae, Perilampidae, Pteromalidae, Signiphoridae, Tetracampidae, Torymidae

Introduction

The preliminary checklist of Chalcidoidea of the Maltese Islands published by Askew & Mifsud (2016) provided information on 147 species and included all previously published data on this group for the mentioned territory. Since then, two new species have been described from Malta, *Baryscapus ecbalii* Cassar, Askew & Mifsud (2018) (Eulophidae), which was previously reported as *Basyscapus* n. sp. by Askew & Mifsud (2016), and *Rhaphitelus mathildae* Askew & Mifsud (2018) (Pteromalidae). In this latter publication, the identity of *Rhaphitelus maculatus* Walker, 1834, which was previously reported from Malta by Mifsud *et al.* (2012), was also confirmed.

Additional material of Chalcidoidea was recently available for study and the list which follows provides additional data on both some previously reported species and on 33 new records (marked by an asterisk (*) for convenience). Host data is included for most of the new records in Eulophidae (mainly micro-Lepidoptera), but also for some other species. Some previous records (Askew & Mifsud, 2018) were re-examined and it was found that *Anisopteromalus* sp. was previously misidentified as *Cyrtoptyx latipes* (Rondani, 1874), *Hockeria* sp. near *susterae* Bouček, 1951 and *Dibrachys microgastri* (Bouché, 1834) were previously reported only at generic level; and *Neanastatus africanus* Ferrière, 1938 was previously misidentified as *N. turneri* Ferrière, 1938.

Family classification follows Askew & Mifsud (2016) except Megastigmidae which is treated as a family following Janšta *et al.* (2018). Appendix I provides an updated checklist for the 181 species of Chalcidoidea currently reported from the Maltese archipelago. In both the annotated species list and Appendix I, families and species therein are arranged alphabetically. Unless otherwise stated all material is dry-mounted and housed in the private collection of one of the authors (DM). Additional material is housed in the private collection of Richard Askew (RAC) and in the Natural History Museum in London, UK (BMNH).

Annotated species list

Aphelinidae Thomson, 1876

Encarsia sp. near *protransvena* Viggiani, 1985*

Material examined. MALTA, 15.x.2016/24.x.2017, Msida, numerous ♂♂ & ♀♀, emerged from ? *Dialeurodes* sp., on *Ficus benjamina*, leg. D. Mifsud (BMNH).

Marietta leopardina Motschulsky, 1863

Material examined. MALTA, 24.x.2017, Msida, numerous ♂♂ & ♀♀, emerged from unidentified scale insect on *Ficus benjamina*, leg. D. Mifsud (BMNH).

Chalcididae Latreille, 1817

Brachymeria minuta (Linnaeus, 1767)*

Material examined. MALTA, St. Thomas Bay, Tal-Munxar, 30.iv.2016, 1 ex., beating capper bush, leg. D. Mifsud.

Brachymeria podagrica (Fabricius, 1787)*

Material examined. MALTA, Salina, 11.vii.2002, 1♀, leg. D. Mifsud.

Chirocera pectinicornis (Latreille, 1809)*

Material examined. MALTA, Buskett, 5.vi.2003, 1♀, leg. D. Mifsud (RAC); Marsa, 12.vi.2004, 1♂, from *Quercus ilex* branches, leg. D. Mifsud; Marsa, 28.vii.2004, 1♀, reared from *Quercus ilex* branches, leg. D. Mifsud.

Dirhinus hesperidum (Rossi, 1790)*

Material examined. MALTA, Buskett, 20.vii.2002, 1 ex., leg. D. Mifsud; Zejtun, 20.iv.2014, 1 ex., leg. D. Mifsud.

Hockeria sp. near *susterai* Bouček, 1951

Material examined. MALTA, Verdala Palace, 16.ix.–30.x.2014, 2♂♂, in Malaise trap, leg. D. Mifsud; 1♂, same data but 1.viii.–15.ix.2014 (all in RAC).

Notes. This species was previously identified to generic level (Askew & Mifsud, 2016).

Hockeria unicolor Walker, 1834*

Material examined. MALTA, Zebbug, 27.vii.2016, 1♀, emerged from pupa of Pyralidae feeding on the top part of corn among stigmas, leg. M. Zerafa; Zebbieh, 19.v.2015, 1♂, emerged from pupa of *Coleophora semicinerea* (Coleophoridae) feeding on Fabaceae, leg. M. Zerafa; Dingli, 6.vii.2015, 1 ex., leg. D. Mifsud.

Encyrtidae Walker, 1837

Cerapterocerus mirabilis Westwood, 1833

Material examined. MALTA, Bahrija, 21.v.1998, 1♀, leg. D. Mifsud.

Encyrtus infelix (Embleton, 1902)*

Material examined. MALTA, Naxxar, 2.xii.2014, 1 ex., leg. M. Zerafa.

Eulophidae Westwood, 1829

Aprostocetus epicharmus (Walker, 1839)

Material examined. MALTA, Siggiewi, 28–30.x.2013, 4♀♀, emerged from flower galls on *Diplotaxis*, leg. D. Mifsud; Mgarr, 26–28.x.2013, 5♂♂, emerged from flower galls on *Diplotaxis*, leg. D. Mifsud; Hal Far, 4.x.2016,

2♂♂, emerged from pod galls of *Diplotaxis*, leg. D. Mifsud; Mosta Valley, 20.–21.ix.2016, 1♂ & 2♀♀, emerged from flower galls of *Diplotaxis tenuifolia*, leg. D. Mifsud.

Notes. This species was previously reported as *A. sp.* near *epicharmus* (Askew & Mifsud, 2016).

Chrysocharis assis* (Walker, 1839)

Material examined. MALTA, Naxxar Gap, 3.xi.–28.xii.2009, 1♂ & 5♀♀, emerged from larvae of *Ectoedemia euphorbiella* (Nepticulidae), mining leaves of *Euphorbia dendroides*, leg. M. Zerafa; Naxxar Gap, 2.i.2010, 1♂, emerged from larva of *Ectoedemia euphorbiella*, mining leaves of *Euphorbia dendroides*, collected in iii.2009, leg. M. Zerafa; Naxxar Gap, 19.iii.2012, 1♀, emerged from larva of Nepticulidae feeding on *Crataegus monogyna*, leg. M. Zerafa.

Chrysocharis gemma* (Walker, 1839)

Material examined. MALTA, Naxxar Gap, 7.ii.2009, 1♀, emerged from larva/pupa of *Acalyptis minimella* (Nepticulidae), mining leaves of *Pistacia lentiscus*, leg. M. Zerafa; Mosta valley, 24.ii.2007, 1♂, emerged from larva/pupa of *Stigmella aurella* (Nepticulidae), mining leaves of *Rubus ulmifolius*, leg. M. Zerafa.

Chrysocharis nitetis* (Walker, 1839)

Material examined. MALTA, Mosta valley, 10.–18.ix.2014, 1♂ & 6♀♀, emerged from larva of *Coptotriche marginea* (Tischeriidae) feeding on *Rubus ulmifolius*, leg. M. Zerafa; Mosta valley, 7.i.2010, 1♀, emerged from larva of *Coptotriche marginea*, feeding on *Rubus ulmifolius*, leg. M. Zerafa.

Notes. Material from Malta differs from typical material described from UK in that female metafemur (hind femur) are entirely pale without any infuscation/darkening.

Chrysocharis pentheus* (Walker, 1839)

Material examined. MALTA, Mosta valley, 12.iv.2007, 1♀, emerged from larvae/pupae of *Stigmella aurella* (Nepticulidae), mining leaves of *Rubus ulmifolius*, leg. M. Zerafa; Mistra, 16.vi.2006, 1♀, emerged from larvae/pupae of *Stigmella aurella*, mining leaves of *Rubus ulmifolius*, leg. M. Zerafa; Mosta valley, 17.ii.2007, 1♂, emerged from larvae/pupae of *Stigmella aurella*, mining leaves of *Rubus ulmifolius*, leg. M. Zerafa.

Cirrospilus vittatus* Walker, 1838

Material examined. MALTA, Naxxar Gap, 24.viii.2011, 1♀, reared from mines of unidentified Nepticulidae feeding in leaves of *Crataegus monogyna*, leg. M. Zerafa. GOZO, Xlendi, 4.i.2012, 2♀♀, reared from leaf mines of *Trifurcula eurema* (Nepticulidae) on *Lotus cytisoides*, collected on 8.xii.2011, leg. M. Zerafa; Nadur, 8–15.ii.2012, 1♂ & 4♀♀, reared from Nepticulidae mining *Cistus monspeliensis*, leg. M. Zerafa.

Closterocerus sp.*

Material examined. MALTA, Verdala Palace, 30.vii.–30.ix.2015, 1♀, Malaise trap, leg. D. Mifsud (RAC).

Elasmus nowickii* Ferrière, 1947

Material examined. MALTA, Mosta valley, 20.iv.2007, 1♂, emerged from larvae/pupae of Tineidae, leg. M. Zerafa; Pembroke, 17–29.vi.2012, 3♂♂ & 9♀♀, on *Coleophora semicinerea* (Coleophoridae) feeding on *Anthyllis vulneraria*, leg. M. Zerafa.

***Elasmus rufiventris* Ferrière, 1947**

Material examined. MALTA, Mosta valley, 12.iv.2007, 1♂ & 1♀, emerged from larvae/pupae of small Tineidae, leg. M. Zerafa.

Elasmus steffani* Viggiani, 1967

Material examined. MALTA, Birguma, 3.xii.2006, 1♀, from *Hypotia corticalis* (Pyrilidae), feeding in seed head of *Daucus carota*, leg. M. Zerafa; Ghar Lapsi, 2.xii.2014, 1♂ & 1♀, emerged from dry seed head of *Daucus carota*, leg. M. Zerafa.

Hemiptarsenus fulvicollis* Westwood, 1833

Material examined. MALTA, Ħad Dingli, 9.–13.iv.2009, 2♂♂ & 6♀♀, reared from mines of *Trifurcula eurema* (Nepticulidae) in leaves of *Lotus cytisoides*, leg. M. Zerafa; Pembroke, 26.ii.–2.iii.2016, 1♂ & 2♀♀, reared from Elachistidae feeding on grasses (Poaceae), leg. M. Zerafa. GOZO, Xlendi, 4.–12.i.2012, 2♂♂ & 3♀♀, reared from mines of *Trifurcula eurema* in leaves of *Lotus cytisoides*, collected on 8.xii.2011, leg. M. Zerafa.

Minotetrastichus frontalis* (Nees, 1834)

Material examined. MALTA, Mosta Valley, 3.viii.2015, 1♂ & 4♀♀, emerged from stems of *Calamintha nepeta* mined by Nepticulidae, leg. M. Zerafa; Mosta Valley, 29.vii.2015, 2♂♂ & 3♀♀, emerged from stems of *Calamintha nepeta* mined by larvae of Nepticulidae, leg. M. Zerafa; Mosta, L-isperanza Valley, 15–18.ix.2014, 2♂♂ & 3♀♀, emerged from larvae of *Coptotriche marginata* (Tischeriidae), feeding on *Rubus ulmifolius*, leg. M. Zerafa.

Necremnus artynes* (Walker, 1839)

Material examined. MALTA, Mtaħleb, 18.v.2009, 1♂, reared from larvae/pupae of *Dialectica scalariella* (Gracillariidae), feeding on *Echium italicum*, leg. M. Zerafa.

Neochrysocharis formosa* (Westwood, 1833)

Material examined. MALTA, Verdala Palace, 1.viii.–15.ix.2014, 2♀♀, Malaise trap, leg. D. Mifsud; 3♀♀, same data but 16.ix.–30.x.2014 (RAC).

Neochrysocharis trifolii* Erdős, 1961

Material examined. MALTA, Verdala Palace, 1.viii.–15.ix.2014, 7♀♀, Malaise trap, leg. D. Mifsud (RAC).

Pediobius metallicus* (Nees, 1834)

Material examined. MALTA, Naxxar Gap, 28–29.x.2009, 1♂, emerged from larva/pupa of *Ectoedemia euphorbiella* (Nepticulidae) collected in March, 2009, mining leaves of *Euphorbia* sp., leg. M. Zerafa; Naxxar Gap, 28–29.x.2009, 1♂ & 2♀♀, emerged from pupae of Elachistidae collected in February 2009, leg. M. Zerafa; Naxxar Gap, 24.ix.2009, 1♀, emerged from larvae/pupae of Elachistidae collected in April 2009, feeding on Poaceae, leg. M. Zerafa; Pembroke, 4–6.xi.2009, 1♂ & 4♀♀, emerged from larvae/pupae of Elachistidae, feeding on Poaceae, leg. M. Zerafa; Bormla, 31.iii.2006, 1♀, emerged from pupa of Elachistidae, leg. M. Zerafa.

Pnigalio mediterraneus* Ferrière & Delucchi, 1957

Material examined. MALTA, Ħal Lija, 9.–13.v.2009, 5♂♂ & 3♀♀, reared from leaf mines of *Phyllonorycter messaniella* (Gracillariidae) on *Quercus robur*, leg. M. Zerafa.

Sympiesis sericeicornis* (Nees, 1834)

Material examined. MALTA, Naxxar Gap, 5.iv.2009, 1♀, reared from a mine containing a pupa of *Phyllonorycter trifasciella* (Gracillariidae) on *Lonicera implexa*, leg. M. Zerafa; Buskett, 28.iv.2009, 1♂, reared from mine containing a pupa of *Phyllonorycter trifasciella* on a leaf of *Lonicera implexa*, leg. M. Zerafa.

Notes. Males of this species are generally without branched antennae but the above cited male specimen has 3 short flagellar branches.

Eupelmidae Walker, 1833

***Calosota aestivalis* Curtis, 1836**

Material examined. MALTA, Zejtun, 10.v.2002, 1 ex., leg. D. Mifsud.

Eupelmus (Eupelmus) confusus* Al-khatib, 2015

Material examined. MALTA, Ħal Far, 4.x.2016, 1♀, emerged from pod galls of *Diplotaxis*, leg. D. Mifsud; Msida, 15.x.2016, 1♂ & 1♀, emerged from pod galls of *Diplotaxis*, leg. D. Mifsud.

***Eupelmus (Eupelmus) microzonus* Förster, 1860**

Material examined. MALTA, Dingli, 6.vii.2015, 1♀, leg. D. Mifsud.

Eupelmus (Macroneura) vesicularis* (Retzius, 1783)

Material examined. MALTA, Mosta, L-isperanza valley, 15–16.ix.2014, 1 ex., emerged from fennel seeds, leg. M. Zerafa.

***Neanastatus africanus* Ferrière, 1938**

Material examined. MALTA, Hal Far, 4.x.2016, 1♂ & 2♀♀, emerged from pod galls of *Diplotaxis*, leg. D. Mifsud; Hal Far, 28.ix.2016, 2♂♂ & 4♀♀, emerged from pod galls of *Diplotaxis*, leg. D. Mifsud.

Notes. Prior to the above studied material, this species was reported from Malta on the basis of one female (Askew & Mifsud, 2016) which was incorrectly identified as *N. turneri*.

Eurytomidae Walker, 1832

Systole* sp. near *foeniculi* Otten, 1941

Material examined. MALTA, Mosta Valley, 13.ix.2016, 1♂, emerged from larva in fennel seeds, leg. M. Zerafa.

Notes. Species in the genus *Systole* are generally phytophagous, the larvae often feeding in Apiaceae seeds. This species is a likely host for some of the Tetrastichinae reared from seeds of *Foeniculum* during the present study which include unidentified species in the genera *Aprostocetus* and *Baryscapus*.

Perilampidae Förster, 1856

Perilampus minutalis* Steffan, 1952

Material examined. MALTA, Buskett, 20./26.vi.2012, 6♂♂, leg. D. Mifsud.

Pteromalidae Dalman, 1820

***Anisopteromalus* sp.**

Material examined. MALTA, Zejtun, 12–17.ix.2013, 9♂♂ & 4♀♀, emerged from a cocoon mass of *Apanteles galleriae*, leg. D. Mifsud.

Notes. This species was incorrectly identified by Askew & Mifsud (2016) as *Cyrtotypx latipes*.

***Dibrachys microgastri* (Bouché, 1834)**

Material examined. MALTA, Verdala Palace, 16.ix.–30.x.2014, 3♀♀, in Malaise trap, leg. D. Mifsud (RAC).

Notes. This species was previously reported as *Dibrachys* sp. (Askew & Mifsud, 2016).

Philotrypesis emeryi* Grandi, 1926

Material examined. MALTA, Zebbug, 17–23.ix.2016, 8♀♀, from syconia of *Ficus microcarpae*, leg. M. Zerafa.

Pteromalus* sp. near *intermedius* (Walker, 1834)

Material examined. MALTA, Verdala Palace, 1.viii.–15.ix.2014, 2♀♀, Malaise trap, leg. D. Mifsud (RAC).

Pteromalus* sp. near *elevatus* (Walker, 1834)

Material examined. MALTA, Verdala Palace, 1.viii.–15.ix.2014, 1♀, Malaise trap, leg. D. Mifsud (RAC).

***Pteromalus myopitae* (Graham, 1969)**

Material examined. MALTA, Mellieħa, 24.xii.2013, 5♂♂ & 2♀♀, emerged from flower galls of *Dittrichia viscosa*, leg. M. Zammit; Selmun, 20.ii.2014, 4♀♀, emerged from flower galls of *Dittrichia viscosa*, leg. M. Zammit.

Pteromalus semotus* (Walker, 1834)

Material examined. MALTA, Verdala Palace, 1.viii.–15.ix.2014, 1 ♀, Malaise trap, leg. D. Mifsud (RAC).

***Stenoselma nigrum* Delucchi, 1956**

Material examined. MALTA, St Thomas Bay, Tal-Munxar, 30.iv.2016, 2 ♂♂ & 1 ♀, leg. D. Mifsud.

Walkerella microcarpae* Bouček, 1993

Material examined. MALTA, Zebbug, 15–23.ix.2016, 8 ♀♀, emerged from syconia of *Ficus microcarpae*, leg. M. Zerafa.

Torymidae Walker, 1833

***Monodontomerus obscurus* Westwood, 1833**

Material examined. MALTA, Mosta, 1.x.2016, 1 ♀, leg. D. Mifsud.

Pseudotorymus medicaginis* (Mayr, 1874)

Material examined. MALTA, Mosta valley, 6.x.2016, 5 exs., from ovary galls on *Foeniculum vulgare*, leg. M. Zerafa.

Conclusion

Almost half of the species newly added to the list are Eulophidae obtained by rearing from plant material, such as leaf mines, that contains the immature stages of their lepidopteran hosts. This is indicative of the extent to which rearing from potential hosts or host substrates, such as plant galls, leaf mines, plant stems, dead wood, fruits, seeds and flower heads can reveal additional species as well as providing valuable biological information.

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APPENDIX I. Checklist of the 181 species of Chalcidoidea recorded from the Maltese Islands (* denotes new records)

Agaonidae Walker, 1846

- Eupristina verticillata* Waterston, 1921
- Pleistodontes* sp.
- Blastophaga psenes* (Linnaeus, 1758)

Aphelinidae Thomson, 1876

- Aphelinus chaonia* Walker, 1839
- Aphelinus humilis* Mercet, 1927
- Aphelinus mali* (Haldeman, 1851)
- Aphytis diaspidis* (Howard, 1881)
- Aphytis hispanicus* (Mercet, 1912)
- Aphytis lepidosaphes* Compere, 1955
- Aphytis melinus* DeBach, 1959
- Cales noacki* Howard, 1907
- Coccophagus lycimnia* (Walker, 1839)
- Coccophagus scutellaris* (Dalman, 1826)
- Coccophagus* sp. near *rusti* Compere, 1828
- Encarsia brimblecombei* (Girault, 1933)
- Encarsia citrina* (Craw, 1891)
- Encarsia formosa* Gahan, 1924
- Encarsia inaron* (Walker, 1839)
- Encarsia lutea* (Masi, 1909)
- Encarsia* sp. near *protransvena* Viggiani, 1985*
- Encarsia tricolor* Förster, 1878
- Eretmocerus californicus* Howard, 1895
- Eretmocerus mundus* Mercet, 1931
- Marietta leopardina* Motschulsky, 1863

Azotidae Nikol'skaya & Yasnosh, 1966

- Ablerus perspiciosus* Girault, 1916

Chalcididae Latreille, 1817

- Brachymeria minuta* (Linnaeus, 1767)*
- Brachymeria podagrica* (Fabricius, 1787)*
- Chirocera pectinicornis* (Latreille, 1809)*
- Dirhinus hesperidum* (Rossi, 1790)*
- Hockeria bifasciata* Walker, 1834
- Hockeria* sp. near *susterai* Bouček, 1951
- Hockeria unicolor* Walker, 1834*
- Proconura nigripes* Fonscolombe, 1832

Encyrtidae Walker, 1837

- Anagyrus matritensis* (Mercet, 1921)
- Anagyrus pseudococci* (Girault, 1915)
- Anicetus italicus* (Masi, 1917)
- Cerapterocerus mirabilis* Westwood, 1833
- Cheiloneurus claviger* Thomson, 1876
- Cheiloneurus elegans* (Dalman, 1820)
- Comperiella bifasciata* Howard, 1906
- Copidosoma* sp.
- Encyrtus aurantii* (Geoffroy, 1785)
- Encyrtus infelix* (Embleton, 1902)*
- Gyranusoidea advena* Beardsley, 1969
- Homalotyloidea dahlbomii* (Westwood, 1837)
- Leptomastidea abnormis* (Girault, 1915)
- Metaphycus asterolecanii* (Mercet, 1923)
- Metaphycus flavus* (Howard, 1881)
- Metaphycus hirtipennis* (Mercet, 1921)
- Metaphycus* sp. near *stanleyi* Compere, 1940

Microterys masii Silvestri, 1919
Microterys nietneri (Motschulsky, 1859)
Ooencyrtus (?) *fulvipes* Hoffer, 1963
Ooencyrtus telenomicida (Vassiliev, 1904)
Prochiloneurus bolivari Mercet, 1919
Syrphophagus aphidivorus (Mayr, 1876)
Tineophoctonus armatus (Ashmead, 1888)

Eulophidae Westwood, 1829

Aprostocetus dauci Graham, 1987
Aprostocetus epicharmus (Walker, 1839)
Aprostocetus sp. near *toddaliae* (Risbec, 1958)
Astichus bachmaieri Doğanlar, 1992
Baryscapus ecballi Cassar, Askew & Mifsud, 2018
Baryscapus impeditus (Nees, 1834)
Baryscapus sp. (*evonymellae* group)
Chrysocharis assis (Walker, 1839)*
Chrysocharis gemma (Walker, 1839)*
Chrysocharis nitetis (Walker, 1839)*
Chrysocharis pentheus (Walker, 1839)*
Chrysocharis pubicornis (Zetterstedt, 1838)
Cirrospilus pictus (Nees, 1834)
Cirrospilus vittatus Walker, 1838*
Closterocerus sp.*
Diglyphus isaea (Walker, 1838)
Diglyphus minoicus (Walker, 1838)
Diglyphus poppoea Walker, 1848
Elachertus bisurmanus Erdős, 1966
Elasmus nowickii Ferrière, 1947*
Elasmus platydrae Ferrière, 1935
Elasmus rufiventris Ferrière, 1947
Elasmus steffani Viggiani, 1967*
Euderomphale sp.
Hemiptarsenus fulvicollis Westwood, 1833*
Hemiptarsenus sp. near *wailesellae* Nowicki, 1929
Leptocybe invasa Fisher & La Salle, 2004
Melittobia acasta (Walker, 1839)
Minotetrastichus frontalis (Nees, 1834)*
Minotetrastichus sp. near *frontalis* (Nees, 1834)
Miotropis unipuncta (Nees, 1834)
Necremnus artynes (Walker, 1839)*
Neochrysocharis formosa (Westwood, 1833)*
Neochrysocharis trifolii Erdős, 1961*
Neochrysocharis violaceus Askew, 1999
Neotrichoporoides viridimaculatus (Fullaway, 1955)
Oomyzus sempronius (Erdős, 1954)
Ophelimus maskelli (Ashmead, 1900)
Pediobius epigonus (Walker, 1839)
Pediobius metallicus (Nees, 1834)*
Pnigalio agraulis (Walker, 1839)
Pnigalio mediterraneus Ferrière & Delucchi, 1957*
Pronotalia carlinarum (Szelényi & Erdős, 1951)
Puklina sp.
Stepanovia eurytomae (Nees, 1834)
Sympiesis sericeicornis (Nees, 1834)*
Tamarixia actis (Walker, 1839)
Tamarixia pronomus (Walker, 1839)
Tamarixia sp.
Tamarixia tremblayi (Domenichini, 1965)
Zagrammosoma variegatum (Masi, 1907)

Eupelmidae Walker, 1833

- Calosota aestivalis* Curtis, 1836
Eupelmus (Episolindelia) hartigi Förster, 1841
Eupelmus (Eupelmus) confusus Al-khatib, 2015*
Eupelmus (Eupelmus) lanceolatus Gibson & Fusu, 2016
Eupelmus (Eupelmus) microzonus Förster, 1860
Eupelmus (Eupelmus) (?) urozonus Dalman, 1820
Eupelmus (Macroneura) muellneri Ruschka, 1921
Eupelmus (Macroneura) vesicularis (Retzius, 1783)*
Neanastatus africanus Ferrière, 1938

Eurytomidae Walker, 1832

- Eurytoma* sp. near *dentata* Mayr, 1878
Eurytoma (?) inulae Domenichini, 2002
Eurytoma sp. near *laserpitii* Mayr, 1882
Sycophila iracemae Nieves-Aldrey, 1983
Systole sp. near *foeniculi* Otten, 1941*
Tetramesa stipae (De Stefani, 1901)

Leucospidae Walker, 1834

- Leucospis brevicauda* Fabricius, 1804
Leucospis dorsigera Fabricius, 1775
Leucospis gigas Fabricius, 1793
Leucospis intermedia Illiger, 1807

Megastigmidae Thomson, 1876

- Megastigmus wachtl*i Seitner, 1916

Mymaridae Haliday, 1833

- Arescon aspidioticola* (Ashmead, 1879)
Dicopus citri Mercet, 1912

Ormyridae Förster, 1856

- Ormyrus orientalis* Walker, 1871

Perilampidae Förster, 1856

- Perilampus minutalis* Steffan, 1952*

Pteromalidae Dalman, 1820

- Anisopteromalus* sp.
Callitula bicolor Spinola, 1811
Catolaccus crassiceps (Masi, 1911)
Cerocephala rufa (Walker, 1833)
Cleonymus laticornis Walker, 1837
Dibrachys microgastris (Bouché, 1834)
Dinarmoides spiloaterus Masi, 1924
Dinarmus acutus (Thomson, 1878)
Gastrancistrus sp. (*vagans* group)
Halticoptera sp. near *circulus* (Walker, 1833)
Homoporus (?) subniger (Walker, 1835)
*Josephiella microcarpa*e Beardsley & Rasplus, 2001
Meraporus graminicola Walker, 1834
Mesopolobus melitensis Askew, 2014
Miscogaster hortensis Walker, 1833
Norbamus scabriculus (Nees, 1834)
Notaninus (Amarisca) oulmesiensis (Delucchi, 1962)
Notaninus versicolor Walker, 1837
Odontofroggata galili Wiebes, 1980
Pachycrepoideus vindemmiae (Rondani, 1875)
Pachyneuron muscarum (Linnaeus, 1758)
Philotrypesis caricae (Linnaeus, 1762)

Philotrypesis emeryi Grandi, 1926*
Pseudocatolaccus nitescens (Walker, 1834)
Pteromalus sp. near *bedeguaris* (Thomson, 1878)
Pteromalus sp. near *brachygaster* (Graham, 1969)
Pteromalus sp. near *elevatus* (Walker, 1834)*
Pteromalus sp. near *intermedius* (Walker, 1834)*
Pteromalus myopitae (Graham, 1969)
Pteromalus puparum (Linnaeus, 1758)
Pteromalus semotus (Walker, 1834)*
Rhaphitelus maculatus Walker, 1834
Rhaphitelus mathildae Askew, 2018
Scutellista caerulea (Fonscolombe, 1832)
Stenomalina sp.
Stenoselma nigrum Delucchi, 1956
Systasis encyrtoides Walker, 1834
Trychnosoma punctipleura (Thomson, 1878)
Walkerella microcarpae Bouček, 1993*

Signiphoridae Howard, 1894

Chartocerus kurdjumovi (Nikol'skaya, 1950)
Signiphora flavopalliata Ashmead, 1880

Tetracampidae Förster, 1856

Foersterella reptans (Nees, 1834)

Torymidae Walker, 1833

Idiomacromerus sp.
Monodontomerus obscurus Westwood, 1833
Podagrion splendens Spinola, 1811
Pseudotorymus medicaginis (Mayr, 1874)*
Pseudotorymus napi (Ameiling & Kircher, 1860)
Torymoides kiesenwetteri (Mayr, 1874)
Torymus curtisi Graham & Gijswijt, 1998