

Checklist of euphorid wasps (Insecta: Hymenoptera: Euphoridae) of Iran

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ABSTRACT: In the present paper a list of the Euphoridae species (Hymenoptera: Chalcidoidea) and their associated hosts in Iran is provided. A total of 106 species belonging to 37 genera and to the following subfamilies are listed: Entedoninae (seven genera/19 species), Entiinae (one genus/one species), Euphorinae (16 genera/45 species), Tetrastichinae (13 genera/41 species).

INTRODUCTION

Euphoridae is the largest family in the Chalcidoidea including over 4472 species placed in four subfamilies and 297 genera: Entiinae (17/148), Euphorinae (97/1316), Entedoninae (87/1307), Tetrastichinae (91/1644), unplaced (5/57) (Noyes 2010). Different types of trophic associations, including endoparasitism (Entedoninae and Tetrastichinae), ectoparasitism (Euphorinae and Entiinae) and phytophagy or predatism are recorded within the euphorids (Hesami 2009). Meanwhile, some species are considered as important biological control agent of pests. The first efforts on knowing euphorids from Iran were made by Herting (1973) and Davatchi and Shojaei (1989). Recently, more contributions have been done for collecting and identifying the Iranian euphorids, their associates (Dousti 2008; Dousti *et al.* 2008; Ebrahimi *et al.* 2009; Golizadeh *et al.* 2008; Hesami 2009; Hesami *et al.* 2006a; Hesami *et al.* 2006b; Hesami *et al.* 2010; Rakhshani *et al.* 2003; Rezaei *et al.* 2003; Talebi *et al.* 2008; Yefremova *et al.* 2007; Zahiri *et al.* 2004) and their role in biological control of some pests, to some extent (Rezaei *et al.* 2003; Talebi *et al.* 2008). Noyes (2010) provided an excellent reference for Euphorid species from Iran, but it seems that some results of studies on the family in Iran are not listed there. Here we present an updated checklist of euphorid species and their hosts as a background of further biological and systematic efforts in Iran.

MATERIALS AND METHODS

The checklist aimed at reviewing as many references as possible on the Euphoridae and listing each species with distributional data and the host records in Iran. The Iranian provinces from which the euphorid species were recorded are shown in Figure 1. Classification, arrangement and distribution outside Iran follows Noyes (2010). Seventy three euphorid species were reported in the Universal Chalcidoidea Database, but here 33 other euphorids, (marked with an asterisk (*)) and new host

associations are added to the previous records.

RESULTS AND DISCUSSION

The list below present 106 euphorid species to Iran. Among them the following five species are recorded for the first time in Iran: *Aprostocetus beyazus* Doganlar, 1992; *Aprostocetus persicus* Yefremova and Yegorenko, 2007; *Cirrospilus scapus* Yefremova, 2007; *Derostenus persicus* Gomovsky, 2003; *Diglypus scapus* Yefremova, 2008. Most literature data on euphorids new for the Iranian fauna were from ecological studies and their role as natural enemies or forest entomology. Iran is located in Palaearctic region and the existence of different and unique habitats for euphorid wasps, it seems that the Iranian fauna of Euphoridae is more rich and need more attention based on regions and material surveys. Number of genera and species of Euphoridae in the world and Iran are presented in Table 1. Among the 106 species recorded in this paper, most of the genera and species belong to the subfamily Euphorinae (16 genera/45 species), followed by Tetrastichinae (13 genera/41 species).

SUBFAMILY: ENTEDONINAE

Genus: *Achrysocharoides* Girault, 1913

Achrysocharoides suprafolius (Askew, 1974)*

Host: *Phyllonorycter corylifoliella* (Hübner) (Lepidoptera: Gracillariidae) (Amiri *et al.* 2009).

Distribution: Iran: Fars Province (Amiri *et al.* 2009). Outside Iran: Germany, Netherlands, England, Scotland.

Genus: *Chrysocharis* Foerster, 1856

Chrysocharis amyite (Walker, 1839)

Host: parasitoid of leafminer flies (Diptera: Agromyzidae) (Yefremova *et al.* 2007).

Distribution: Iran: Isfahan Province (Yefremova *et al.*

2007). Outside Iran: Bulgaria, Canada, Croatia, Czech Republic, Denmark, France, Germany, Greece, Hungary, Italy, Japan, Korea, Macedonia, Moldova, Netherlands, Norway, China, Portugal, Slovakia, Sweden, England, United States of America, USSR, Former Yugoslavia.

Chrysocharis laomedon* (Walker, 1839)

Host: *Kermania pistaciella* Amsel (Lepidoptera: Tineidae) (Mehrnejad and Basirat 2009).

Distribution: Iran: Fars Province (Hesami et al. 2010); Kerman province, (Mehrnejad and Basirat 2009). Outside Iran: Bulgaria, Croatia, Czech Republic, Denmark, France, Germany, Hungary, Italy, Japan, Turkey, Moldova, Netherlands, Slovakia, Sweden, England, United States of America, USSR, Former Yugoslavia.

Genus: *Closterocerus* Westwood, 1833

***Closterocerus aratus* (Walker, 1838)**

Host: Unknown.

Distribution: Iran: Golestan and Tehran provinces (OILB 1971; Shojaei 1968; Shojaei 1989). Outside Iran: Bulgaria, Canada, Canary Islands, Czech Republic, Denmark, Finland, Germany, Greece, Hungary, Ireland, Moldova, Netherlands, Norway, Peru, Poland, Portugal, Russia, Spain, Sweden, Ukraine, England, United States of America, USSR, Former Yugoslavia.

***Closterocerus formosus* Westwood, 1833**

Host: *Liriomyza sativae* Blanchard and *L. trifolii* (Burgess) (Diptera: Agromyzidae) (Asadi et al. 2006; Zahiri et al. 2004); *Phyllocnistis citrella* Stainton (Lepidoptera: Gracillariidae) (Dousti et al. 2008).

Distribution: Iran: Tehran Province (Asadi et al. 2006; OILB 1971; Zahiri et al. 2004); Fars province (Dousti et al. 2008; Hesami et al. 2006b); Sistan- Baluchistan province (Ebrahimi et al. 2009). Outside Iran: Afrotropical, Austria, Bulgaria, Canada, Canary Islands, Croatia, Czech Republic, Denmark, Eritrea, Ethiopia, Finland, France, Germany, Greece, Guam, Hawaii, Hungary, Indonesia, Iraq, Israel, Italy, Jamaica, Japan, Jordan, Kazakhstan, Macedonia, Malaysia, Mexico, Moldova, Netherlands, North Africa, Norway, China, Poland, Romania, Russia, Slovakia, South Africa, Spain, Sudan, Sweden, Switzerland, Taiwan, Turkey, Turkmenistan, Ukraine, United Arab Emirates, England, United States of America, USSR, Yemen, Former Yugoslavia.

Closterocerus longiventris* (Askew, 1979)

Host: *Phyllonorycter corylifoliella* (Hubner) (Lepidoptera: Gracillariidae) (Amiri et al. 2009).

Distribution: Iran: Fars Province (Amiri et al. 2009). Outside Iran: Bulgaria, Denmark, Sweden, England.

Genus: *Derostenus* Westwood, 1833

***Derostenus persicus* Gomovsky, 2003**

Host: Unknown.

Distribution: Iran: Fars Province (Gomovsky 2003). Not recorded outside Iran.

Genus: *Entedon* Dalman, 1820

***Entedon biroi* Erdös, 1944**

Host: Unknown.

Distribution: Iran: (Gumovsky 1999). Outside Iran: Bulgaria, Czech Republic, Hungary, Kazakhstan, Moldova, Mongolia, Slovakia, Turkey, Ukraine, United States of America, USSR, Uzbekistan.

***Entedon ergias* Walker, 1839**

Host: *Ruguloscolytus mediterraneus* Eggers, *Phloesinius bicolor* Brullé, *Scolytus multistriatus* Marsham (Coleoptera: Scolytidae) (Radjabi 1986).

Distribution: Iran: East Azarbaijan, Markazi, Tehran and Zanjan provinces (Davatchi and Shojaei 1989; Radjabi 1986; Shojaei 1968; Shojaei 1989) (recorded as *Entedon leucogramma* Ratzburg, 1844). Outside Iran: Armenia, Austria, Bulgaria, Canada, Croatia, Czech Republic, Finland, France, Georgia, Germany, Hungary, Israel, Italy, Moldova, Netherlands, Norway, Poland, Russia, Slovakia, Sweden, Ukraine, England, United States of America, USSR, Former Yugoslavia.

Genus: *Euderomphale* Girault, 1916

Euderomphale bemisiae* Viggiani, 1977

Host: *Bemisia giffardi* (Kotinsky) (Hemiptera: Aleyrodidae) (Ghahari et al. 2006).

Distribution: Iran: Guilan Province (Ghahari et al. 2006). Outside Iran: Italy.

Euderomphale chelidonii* Erdos, 1966

Host: *Aleyrodes lonicerae* Walker (Hemiptera: Aleyrodidae) (Ghahari et al. 2006).

Distribution: Iran: Mazandaran Province (Ghahari et al. 2006). Outside Iran: Austria, Egypt, Finland, Germany, Hungary, Moldova, Poland, Sweden, England, Yemen.

Genus: *Pediobius* Walker, 1846

***Pediobius bruchicida* (Rondani, 1872)**

Host: unknown.

Distribution: Iran: (Askew et al. 2006). Outside Iran: Afrotropical, Algeria, Australia, Czech Republic, Egypt, Greece, Hungary, India, Israel, Italy, Lebanon, Libya, Macedonia, Moldova, New Zealand, Papua New Guinea, Russia, Slovakia, Spain, Sweden, Tadzhikistan, Tanzania, Turkey, Turkmenistan, Ukraine, Yemen, Former Yugoslavia.

***Pediobius cassidae* Erdos, 1951**

Host: unknown.

Distribution: Iran: Chaharmahal-Bakhtiari Province (Yefremova et al. 2007). Outside Iran: Austria, Croatia, Czech Republic, France, Germany, Hungary, Italy, Macedonia, Moldova, Netherlands, Russia, Slovakia, Slovenia, Sweden, Transcaucasus, Turkey, Ukraine, England, Yemen, former Yugoslavia.

***Pediobius crassicornis* (Thomson, 1878)**

Host: *Phyllocnistis citrella* Stainton (Lepidoptera: Gracillariidae) (Ebrahimi et al. 2009; Yefremova et al. 2007).

Distribution: Iran: Bushehr Province (Ebrahimi et al. 2009; Yefremova et al. 2007). Outside Iran: Canada, Czech

Republic, France, Germany, Hungary, Italy, Japan, Moldova, Netherlands, Slovakia, Sweden, Ukraine, England, United States of America, USSR, Yemen.

***Pediobius illustris* (Warterston, 1915)**

Host: unknown.

Distribution: Iran: (Boucek and Askew 1968; Waterston 1915). Outside Iran: Bulgaria, Czech Republic, Germany, Greece, Hungary, Italy, Kirgizia, Moldova, Netherlands, Poland, Russia, Slovakia, Sweden, Tadzhikistan, Turkey, Ukraine, USSR.

***Pediobius italicus* Boucek, 1968**

Host: *Phylloconistis citrella* Stainton (Lepidoptera: Gracillariidae) (Ebrahimi et al. 2009; Yefremova et al. 2007).

Distribution: Iran: Fars Province (Ebrahimi et al. 2009; Yefremova et al. 2007). Outside Iran: Italy, Japan.

***Pediobius lysis* (Walker, 1839)**

Host: *Galerucella lineola* (Fabricius) (Coleoptera: Chrysomelidae) (Yefremova et al. 2007).

Distribution: Iran: Golestan Province (Yefremova et al. 2007). Outside Iran: Croatia, Czech Republic, France, Germany, Hungary, Italy, Moldova, Netherlands, Slovakia, Spain, Sweden, England, Former Yugoslavia.

***Pediobius pyrgo* (Walker, 1839)**

Host: *Phylloconistis citrella* Stainton (Lepidoptera: Gracillariidae) (Ebrahimi et al. 2009; Yefremova et al. 2007); *Ocneria terebinthina* Stgr. (Lepidoptera: Lymantriidae) (Ebrahimi et al. 2009) (Abai 1993).

Distribution: Iran: Kerman and Bushehr Provinces (Yefremova et al. 2007); Kerman Province (Ebrahimi et al. 2009). Outside Iran: Bulgaria, Canada, Canary Islands, Czech Republic, France, Germany, Honduras, Hungary, Iraq, Italy, Japan, Korea, Moldova, Netherlands, Oriental, Poland, Russia, Slovakia, Spain, Sweden, Taiwan, Turkey, Ukraine, United Arab Emirates, England, United States of America, USSR, Former Yugoslavia.

***Pediobius saulius* (Walker, 1839)**

Host: *Phylloconistis citrella* Stainton (Lepidoptera: Gracillariidae) (Ebrahimi et al. 2009).

Distribution: Iran: Chaharmahal-Bakhtiari Province (Yefremova et al. 2007); Bushehr Province (Ebrahimi et al. 2009). Outside Iran: Austria, Bulgaria, Canary Islands, Croatia, Czech Republic, Germany, Greece, Hungary, Israel, Italy, Japan, Kazakhstan, Korea, Moldova, Netherlands, Romania, Russia, Slovakia, Sweden, Switzerland, Turkey, Turkmenistan, Ukraine, United Arab Emirates, United Kingdom, England, USSR, Yemen, Former Yugoslavia.

SUBFAMILY: ENTIINAE

Genus: *Euderus* Haliday, 1844

Euderus agrili* Boucek, 1963

Host: unknown.

Distribution: Iran: Fars Province (Hesami 2009). Outside Iran: Bulgaria, Czech Republic, Germany, Greece, Hungary, Italy, Kirgizia, Moldova, Netherlands, Poland, Russia,

Slovakia, Sweden, Tadzhikistan, Turkey, Ukraine, USSR.

SUBFAMILY: EULOPHINAE

Genus: *Aulogymnus* Forster, 1851

***Aulogymnus gallarum* (Linnaeus, 1761)**

Host: *Adleria* sp., *Andricus* sp., *Cynips* sp. (Hymenoptera: Cynipidae) (Yefremova et al. 2007).

Distribution: Iran: Ghazvin Province (Yefremova et al. 2007). Outside Iran: Austria, Belgium, Croatia, Czech Republic, Finland, Germany, Hungary, Italy, Moldova, Netherlands, Romania, Russia, Slovenia, Spain, Sweden, England, USSR, Former Yugoslavia.

Aulogymnus skianeuros* (Ratzeburg, 1844)

Host: *Andricus grossulariae* Giraud and *A. multiplicatus* Giraud (Hymenoptera: Cynipidae) (Zargaran et al. 2008).

Distribution: Iran: West Azarbaijan Province (Zargaran et al. 2008). Outside Iran: Austria, Belgium, Bulgaria, Croatia, Czech Republic, France, Germany, Hungary, Italy, Moldova, Netherlands, Romania, Russia, Spain, Sweden, Turkey, Ukraine, England, Scotland, Former Yugoslavia.

Genus: *Cirrospilus* Westwood, 1832

***Cirrospilus ingenuus* Gahan, 1932**

Host: *Phylloconistis citrella* Stainton (Lepidoptera: Gracillariidae) (Ebrahimi et al. 2009; Yefremova et al. 2007).

Distribution: Iran: Bushehr Province (Ebrahimi et al. 2009; Yefremova et al. 2007); Baluchistan (Ebrahimi et al. 2009). Outside Iran: Australia, India, Indonesia, Israel, Japan, Jordan, Mexico, Morocco, China, Philippines, Spain, Syria, Taiwan, Thailand, United States of America, Yemen.

***Cirrospilus lyncus* Walker, 1838**

Host: *Phylloconistis citrella* Stainton (Lepidoptera: Gracillariidae) (Alavi et al. 2002; Yefremova et al. 2007).

Distribution: Iran: Mazandaran Province (Ebrahimi et al. 2009; Yefremova et al. 2007); Golestan Province (Alavi et al. 2002). Outside Iran: Austria, Azerbaijan, Bosnia Herzegovina, Bulgaria, Croatia, Czech Republic, Germany, Hungary, Ireland, Israel, Italy, Japan, Korea, Lithuania, Moldova, Netherlands, China, Poland, Romania, Russia, Slovakia, Spain, Sweden, Turkey, Ukraine, England, USSR, Former Yugoslavia.

***Cirrospilus scapus* Yefremova, 2007**

Host: *Liriomyza congesta* (Becker) (Diptera: Agromyzidae) (Yefremova et al. 2007).

Distribution: Iran: West Azarbaijan Province (Yefremova et al. 2007). Outside Iran: This species has not already been recorded outside Iran.

***Cirrospilus staryi* Boucek, 1959**

Host: *Phylloconistis citrella* Stainton (Lepidoptera: Gracillariidae) (Ebrahimi et al. 2009; Yefremova et al. 2007).

Distribution: Iran: Bushehr Province (Ebrahimi et al. 2009; Yefremova et al. 2007). Outside Iran: Algeria, Austria, Bulgaria, Croatia, Czech Republic, France, Georgia,

Germany, Lebanon, North Africa, Sweden, Transcaucasus, Turkey, Former Yugoslavia.

***Cirrospilus talitzkii* Boucek, 1961**

Host: *Leucoptera scitella* Zell. (Lepidoptera: Lyonetiidae) (Yefremova et al. 2007); *Phyllonorycter corylifoliella* (Hübner) (Lepidoptera: Gracillariidae) (Amiri et al. 2009). **Distribution:** Iran: East Azarbaijan Province (Yefremova et al. 2007); Fars Province (Amiri et al. 2009) (recorded as *Zagrammosoma talitzkii* (Boucek, 1977)). Outside Iran: Bulgaria, Italy, Kazakhstan, Moldova, Russia, Turkmenistan, Ukraine, USSR (Eastern USSR), Former Yugoslavia.

Cirrospilus variegatus* (Masi, 1907)

Host: leaf miner flies (Diptera: Agromyzidae) (Hesami et al. 2006a).

Distribution: Iran: Fars Province (Hesami et al. 2006a), Outside Iran: Afrotropical, Armenia, Australia, Azerbaijan, Barbados, Bulgaria, Canary Islands, Croatia, Eritrea, Ethiopia, Hungary, India, Gujarat, Kerala, Italy, Kenya, Libya, Moldova, Morocco, New Zealand, North Africa, Pakistan, China, Peru, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Tanzania, Turkey, Turkmenistan, United Arab Emirates, Uzbekistan, Yemen, Former Yugoslavia.

***Cirrospilus viticola* (Rondani, 1877)**

Host: *Phyllocnistis citrella* Stainton (Lepidoptera: Gracillariidae) (Ebrahimi et al. 2009; Yefremova et al. 2007).

Distribution: Iran: Hormozgan Province (Ebrahimi et al. 2009; Yefremova et al. 2007). Outside Iran: Austria, Azerbaijan, Bulgaria, Croatia, Czech Republic, France, Germany, Hungary, Italy, Moldova, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Sweden, Switzerland, Ukraine, England, USSR, Former Yugoslavia.

Cirrospilus vittatus* Walker, 1838

Host: *Stigmella malella* (Stainton) (Lepidoptera: Nepticulidae) (Radjabi 1986).

Distribution: Iran: Tehran and West Azarbaijan Provinces (Radjabi 1986). Outside Iran: Algeria, Austria, Azerbaijan, Bosnia Hercegovina, Bulgaria, Canada, Canary Islands, Croatia, Czech Republic, France, Germany, Greece, Hungary, Iceland, Iraq, Ireland, Italy, Japan, Jordan, Latvia, Macedonia, Moldova, Netherlands, North Africa, Norway, China, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Tunisia, Turkey, Ukraine, England, United States of America, USSR, Former Yugoslavia.

Genus: *Diaulinopsis* Crawford, 1912

***Diaulinopsis arenaria* (Erdos, 1951)**

Host: *Liriomyza* sp. (Diptera: Agromyzidae) (Dousti et al. 2008).

Distribution: Iran: Kordestan Province (Yefremova et al. 2007); Fars Province (Dousti et al. 2008). Outside Iran: Austria, Azerbaijan, Bulgaria, Canary Islands, Croatia, Czech Republic, Hungary, Italy, Jordan, Moldova, China, Poland, Romania, Russia, Slovakia, Spain, Sweden, Former Yugoslavia.

Genus: *Dichatomus* Förster, 1878

***Dichatomus acerinus* Forster, 1878**

Host: unkown.

Distribution: Iran (OILB 1971). Outside Iran: Austria, Croatia, France, Germany, Hungary, Italy, Netherlands, Spain.

Genus: *Diglyphus* Walker, 1844

***Diglyphus chabrias* (Walker, 1838)**

Host: *Syringopais temperatella* Lederer (Lepidoptera, Deoclonidae) (Yefremova et al. 2007); *Ceroplastes rusci* L. (Hemiptera: Coccidae) (Fallahzadeh et al. 2006).

Distribution: Iran: Lorestan Province (Yefremova et al. 2007); Fars Province (Fallahzadeh et al. 2006). Outside Iran: Bulgaria, Canary Islands, Czech Republic, Germany, Hungary, Madeira, Netherlands, Norway, Pakistan, Russia, Slovakia, Spain, Sweden, England.

***Diglyphus crassinervis* Erdös, 1958**

Host: *Liriomyza sativae* Blanchard (Diptera: Agromyzidae) (Asadi et al. 2006; Dousti et al. 2008).

Distribution: Iran: Tehran Province (Asadi et al. 2006); Fars Province (Dousti et al. 2008). Outside Iran: Bulgaria, Canary Islands, Czech Republic, Egypt, France, Germany, Hungary, Iraq, Israel, Italy, Jordan, Moldova, Morocco, China, Portugal, Slovakia, Spain, Sweden, Turkey, England, Yemen.

***Diglyphus isaea* (Walker, 1838)**

Host: *Liriomyza* sp. (Diptera: Agromyzidae) (Asadi et al. 2006; Dousti et al. 2008).

Distribution: Iran: Tehran Province (Asadi et al. 2006); Chaharmahal-Bakhtiari Province (Yefremova et al. 2007); Fars Province (Dousti et al. 2008). Outside Iran: worldwide.

***Diglyphus minoeus* (Walker, 1838)**

Host: *Liriomyza* sp. (Diptera: Agromyzidae) (Yefremova et al. 2007).

Distribution: Iran: Isfahan Province (Yefremova et al. 2007). Outside Iran: Austria, Barbados, Bulgaria, Croatia, Czech Republic, Germany, Hungary, Italy, Japan, Korea, Moldova, Netherlands, Norway, Pakistan, China, Russia, Slovakia, Sweden, Switzerland, Turkmenistan, England, Yemen.

Diglyphus poppaea* Walker, 1848

Host: *Agromyza ambigua* Fallén (Diptera: Agromyzidae) (Dousti 2008).

Distribution: Iran: Fars Province (Dousti 2008). Outside Iran: Canary Islands, Czech Republic, Finland, Germany, Hungary, Italy, Moldova, Morocco, Netherlands, Portugal, Russia, Spain, Sweden, Switzerland, England, Scotland, Wales, Yemen.

Diglyphus pulchripes* (Crawford, 1912)

Host: *Liriomyza trifolii* (Burgess) (Diptera: Agromyzidae) (Dousti et al. 2008).

Distribution: Iran: Fars Province (Dousti et al. 2008). Outside Iran: Canada, China, United States of America.

Diglyphus sabulosus* Erdös, 1951

Host: *Pegomya betae* (Curtis) (Diptera: Anthomyiidae)

(Davatchi and Shojaei 1989; Farahbakhsh 1961; Shojaei 1989).

Distribution: Iran: Tehran and Qazvin Provinces (Davatchi and Shojaei 1989; Farahbakhsh 1961; Shojaei 1989). Outside Iran: Czech Republic, Hungary, Romania, Slovakia, Sweden, Ukraine.

***Diglyphus scapus* Yefremova, 2008**

Host: unkown.

Distribution: Iran: Mazandaran Province (Hesami *et al.* 2006b; Hesami *et al.* 2008). Outside Iran: This species has not already been recorded outside Iran.

Genus: *Elasmus* Westwood, 1833

Elasmus nudus* Nees, 1834

Host: unkown.

Distribution: Iran: Fars Province (Hesami 2009). Outside Iran: Canary Islands, Caucasus, Croatia, Czech Republic, Finland, France, Germany, Hungary, Italy, Moldova, Poland, Russia, Slovakia, Spain, Sweden, Switzerland, Tadzhikistan, Turkey, Turkmenistan, Ukraine, United Arab Emirates, United Kingdom, Yemen, Former Yugoslavia.

Genus: *Elachertus* Spinola, 1811

Elachertus fenestratus* Nees, 1834

Host: *Cephus pygmaeus* Linnaeus (Hymenoptera: Cephidae) (Behdad 1982; Sahragard 1977).

Distribution: Iran: Generally distributed in Iran (Behdad 1982; Sahragard 1977). Outside Iran: Austria, Bosnia Herzegovina, Canada, Croatia, Czech Republic, France, Germany, Greece, Greenland, Hungary, Italy, Japan, Korea, Mexico, Netherlands, China, Poland, Russia, Slovakia, Sweden, Switzerland, Tadzhikistan, Turkey, Turkmenistan, England, United States of America, USSR, Yemen, Former Yugoslavia.

***Elachertus gallicus* Erdos, 1958**

Host: *Phyllocoptis citrella* Stainton (Lepidoptera: Gracillariidae) (Ebrahimi *et al.* 2009; Yefremova *et al.* 2007).

Distribution: Iran: Fars Province (Ebrahimi *et al.* 2009; Yefremova *et al.* 2007). outside Iran: France, Germany, Russia, Sweden, England.

Genus: *Euplectrus* Westwood, 1832

Euplectrus bicolor* (Swederus, 1795)

Host: *Mythimna loreyi* (Duponchel) (Lepidoptera: Noctuidae) (Naseri *et al.* 1998).

Distribution: Iran: West Azarbaijan Province (Naseri *et al.* 1998). Outside Iran: Australia, Tasmania, Bulgaria, Canada, Croatia, Czech Republic, Denmark, France, Germany, Hungary, Italy, Japan, South Korea, Moldova, Netherlands, North Africa, China, Russia, Slovakia, Somalia, Spain, Sweden, Turkey, Turkmenistan, England, United States of America, USSR, Former Yugoslavia.

Euplectrus flavipes* (Fonscolombe, 1832)

Host: *Spodoptera exigua* (Hübner) (Lepidoptera: Noctuidae) (Eghetedar 1989; Shojaei 1989).

Distribution: Iran: Tehran and Fars Provinces (Eghetedar 1989; Shojaei 1989). Outside Iran: Bulgaria, Canary Islands, Croatia, Cyprus, Dominican Republic, France, Hungary, Italy, Mexico, Moldova, China, Portugal, Slovakia, Slovenia, Spain, Sweden, Syria, Taiwan, Turkey, Turkmenistan, Former Yugoslavia.

***Euplectrus liparidis* Ferriere, 1941**

Host: *Leucania (Acantholeucania) loreyi* Duponchel (Lepidoptera: Noctuidae) (Yefremova *et al.* 2007).

Distribution: Iran: West Azarbaijan Province (Yefremova *et al.* 2007). Outside Iran: Algeria, Bulgaria, Canada, Czech Republic, Italy, Japan, Korea, Macedonia, China, Slovakia, Yemen.

Genus: *Hemiptarsenus* Westwood, 1833

***Hemiptarsenus varicornis* (Girault, 1913)**

Host: *Liriomyza trifolii* (Burgess) (Dip.: Agromyzidae) (Yefremova *et al.* 2007).

Distribution: Iran: Hormozgan Province (Yefremova *et al.* 2007). Outside Iran: Australia, Canary Islands, Ethiopia, Fiji, Ghana, Guam, Hawaii, India, Indonesia, Japan, Kenya, Madeira, Malaysia, New Caledonia, New Zealand, Pakistan, China, Saudi Arabia, Senegal, Seychelles, Spain, Sri Lanka, Sudan, Taiwan, Tanzania, Turkey.

Hemiptarsenus wailesellae* Nowicki, 1929

Host: *Liriomyza sativae* Blanchard (Diptera: Agromyzidae) (Zahiri *et al.* 2004).

Distribution: Iran: Tehran Province (Zahiri *et al.* 2004). Outside Iran: Algeria, Bulgaria, Croatia, Czech Republic, Germany, Italy, North Africa, Poland, Slovakia, Former Yugoslavia.

Hemiptarsenus zilahisebessi* Erdös, 1951

Host: *Liriomyza sativae* Blanchard (Diptera: Agromyzidae) (Zahiri *et al.* 2004).

Distribution: Iran: Tehran Province (Zahiri *et al.* 2004); Fars Province (Dousti *et al.* 2008). Outside Iran: Bulgaria, Egypt, France, Hungary, Jordan, Korea, Moldova, China, Poland, Russia, Slovakia, Spain, Turkey, Former Yugoslavia.

Genus: *Hyssopus* Girault, 1916

***Hyssopus geniculatus* (Hartig, 1838)**

Host: *Phyllocoptis citrella* Stainton (Lepidoptera: Gracillariidae) (Ebrahimi *et al.* 2009; Yefremova *et al.* 2007).

Distribution: Iran: Mazandaran Province (Ebrahimi *et al.* 2009; Yefremova *et al.* 2007). Outside Iran: Bulgaria, Croatia, Czech Republic, Finland, France, Germany, Hungary, Italy, Japan, Korea, Macedonia, Netherlands, Norway, China, Poland, Russia, Slovakia, Spain, Sweden, Tadzhikistan, Turkey, Turkmenistan, England, Yemen.

Genus: *Necremnus* Thomson, 1878

Necremnus leucarthros* (Nees, 1834)

Host: *Hypera postica* (Gyllenhal) (Coleoptera:

Curculionidae) (Akbari-Noushad 1995).

Distribution: Iran: East Azarbaijan Province (Akbari-Noushad 1995). Outside Iran: Algeria, Armenia, Bulgaria, Czech Republic, Denmark, France, Germany, Greece, Hungary, India, Italy, Macedonia, Moldova, Netherlands, Poland, Russia, Slovakia, Sweden, Switzerland, Transcaucasus, Turkey, England, United States of America, USSR, Former Yugoslavia.

***Necremnus tidius* (Walker, 1839)**

Host: *Cephus pygmeus* L. (Hymenoptera: Cephidae) and *Syringopais temperatella* Lederer (Lepidoptera: Elachistidae) (Yefremova et al. 2007).

Distribution: Iran: Isfahan and Lorestan Provinces (Yefremova et al. 2007). Outside Iran: Bulgaria, Canada, Canary Islands, Croatia, Czech Republic, France, Germany, Israel, Netherlands, Poland, Russia, Slovakia, Spain, Sweden, Turkey, England, United States of America, Former Yugoslavia.

Genus: *Pnigalio* Schrank, 1802

***Pnigalio agraules* (Walker, 1839)**

Host: *Phylloconistis citrella* Stainton, *Phyllonorycter corylifoliella* (Hübner) (Lepidoptera: Gracillariidae) (Ebrahimi et al. 2009; Yefremova et al. 2007).

Distribution: Iran: Khuzestan Province (Ebrahimi et al. 2009; Yefremova et al. 2007); Fars Province (Amiri et al. 2009); Mazandaran Province (Jafari 2000). Outside Iran: Australia, Austria, Bosnia Herzegovina, Bulgaria, Canary islands, Croatia, Czech Republic, France, Germany, Greece, Hungary, Italy, Macedonia, Moldova, Netherlands, New Zealand, Norway, China, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine, England, Scotland, USSR, Former Yugoslavia.

Pnigalio nemati* (Westwood, 1838)

Host: unknown.

Distribution: Iran: Fars Province (Hesami 2009). Outside Iran: Finland, France, Germany, Hungary, Russia, England.

***Pnigalio pectinicornis* (Haeselbarth, 1989)**

Host: *Phyllonorycter corylifoliella* Hübner (Yefremova et al. 2007), *Phylloconistis citrella* Stainton (Lepidoptera: Gracillariidae) (Alavi et al. 2002).

Distribution: Iran: Golestan Province (Alavi et al. 2002); Lorestan Province (Yefremova et al. 2007); Fars Province (Hesami 2009). Outside Iran: Australia, Austria, Bosnia Herzegovina, Bulgaria, Canary islands, Croatia, Czech Republic, France, Germany, Greece, Hungary, Italy, Macedonia, Moldova, Netherlands, New Zealand, Norway, China, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine, England, Scotland, USSR an, Former Yugoslavia.

***Pnigalio rotundiventris* (Erdos, 154)**

Host: *Phyllonorycter corylifoliella* (Hübner) (Lepidoptera: Gracillariidae) (Yefremova et al. 2007).

Distribution: Iran: Mazandaran Province (Yefremova et al. 2007). Outside Iran: Hungary, Russia, Sweden.

***Pnigalio soemius* (Walker, 1839)**

Host: *Phylloconistis citrella* Stainton (Lepidoptera: Gracillariidae) (Ebrahimi et al. 2009; Hesami 2009; Yefremova et al. 2007).

Distribution: Iran: Bushehr Province (Ebrahimi et al. 2009; Yefremova et al. 2007); Mazandaran and Fars Provinces (Hesami 2009). Outside Iran: Austria, Bangladesh, Bulgaria, Canary Islands, Croatia, Czech Republic, France, Germany, Hungary, Iraq, Israel, Italy, Korea, Macedonia, Madeira, Moldova, Netherlands, Norway, Pakistan, China, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Syria, Turkey, Ukraine, England, Scotland, USSR, former Yugoslavia.

Genus: *Ratzeburgiola* Erdos, 1958

Ratzeburgiola cristatus* (Ratzeburg, 1848)

Host: *Liriomyza trifolii* (Diptera: Agromyzidae) (Dousti et al. 2008).

Distribution: Iran: Fars Province (Dousti et al. 2008). Outside Iran: Bulgaria, Croatia, Czech Republic, France, Germany, Hungary, Italy, Macedonia, Moldova, Russia, Slovakia, Spain, Sweden, Turkey England, Former Yugoslavia.

Genus: *Rhicnopeltie* Forster, 1878

***Rhicnopeltie crassicornis* (Nees, 1834)**

Host: *Hyphantria cunea* (Drury) (Lepidoptera: Arctiidae) (Yefremova et al. 2007).

Distribution: Iran: Guilan Province (Yefremova et al. 2007). Outside Iran: Austria, Bulgaria, Czech Republic, France, Germany, Hungary, Italy, Kazakhstan, Macedonia, Moldova, Netherlands, Poland, Russia, Slovakia, Turkey, Yemen.

Genus: *Stenomesius* Westwood, 1833

***Stenomesius rufescens* (Retzius, 1783)**

Host: *Phylloconistis citrella* Stainton (Lepidoptera: Gracillariidae) (Ebrahimi et al. 2009; Yefremova et al. 2007).

Distribution: Iran: Hormozgan Province (Ebrahimi et al. 2009; Yefremova et al. 2007). Outside Iran: Armenia, Austria, Bulgaria, Czech Republic, France, Georgia, Germany, Hungary, Italy, Netherlands, Norway, Slovakia, Sweden, Transcaucasus, Turkey, England, United States of America, Former Yugoslavia.

Genus: *Sympiesis* Förster, 1856

***Sympiesis angustipennis* (Erdös, 1954)**

Host: unkown.

Distribution: Iran: Chaharmahal-Bakhtiari Province (Yefremova et al. 2007). Outside Iran: Croatia, Czech Republic, Hungary, Italy, Macedonia, Russia, Slovakia, Spain, Former Yugoslavia.

Sympiesis euspilapterygis* (Erdös, 1958)

Host: *Syringopais temperatella* Lederer (Lepidoptera: Elachistidae) (Pirhadi et al. 2008).

Distribution: Iran: Lorestan Province (Pirhadi et al. 2008). Outside Iran: Austria, Bulgaria, Czech Republic, Germany, Hungary, Poland, Sweden, Turkey, Former Yugoslavia.

Sympiesis gordius (Walker, 1839)

Host: *Phyllonorycter corylifoliella* (Hübner) (Lepidoptera: Gracillariidae) (Amiri et al. 2009; Radjabi 1986); *Phyllonorycter blanckarella* (Fabricious), *Leucoptera scitella* (Zeller) (Lepidoptera: Lyonetidae) (Yefremova et al. 2007).

Distribution: Iran: Tehran and Markazi Provinces (Haeselbarth 1985; Radjabi 1986); Fars Province (Amiri et al. 2009); Isfahan Province (Yefremova et al. 2007). Outside Iran: Afghanistan, Austria, Bosnia Hercegovina, Bulgaria, Canada, Croatia, Czech Republic, Finland, Germany, Hungary, Iran, Italy, Kazakhstan, Latvia, Macedonia, Moldova, Netherlands, Norway, China, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Ukraine, England, Scotland, USSR, Former Yugoslavia.

Sympiesis gregori Boucek, 1959

Host: *Phyllonorycter corylifoliella* (Hübner) (Lepidoptera: Gracillariidae) (Yefremova et al. 2007).

Distribution: Iran: Lorestan Province (Yefremova et al. 2007). Outside Iran: Austria, Azerbaijan, Bulgaria, Canary Islands, Croatia, Czech Republic, France, Germany, Hungary, Moldova, Morocco, Netherlands, Russia, Slovakia, Spain, Sweden, England, Former Yugoslavia.

Sympiesis sericeicornis (Nees, 1834)

Host: *Phyllonorycter corylifoliella* (Hubner) (Amiri et al. 2009); *Phyllonorycter blanckarella* (Fabricious), *Phyllonorycter turanica* Gerasimov, *Leucoptera scitella* Zeller, *Lithocletis platani* Stgr. (Lepidoptera: Gracillariidae) (Radjabi 1986).

Distribution: Iran: Tehran Province (Haeselbarth 1985; Radjabi 1986) and Fars Province (Amiri et al. 2009). Outside Iran: Armenia, Austria, Azerbaijan, Bosnia Herzegovina, Bulgaria, Canada, Canary Islands, Caucasus, Croatia, Czech Republic, France, Germany, Greece, Hungary, Israel, Italy, Japan, Kazakhstan, Korea, Macedonia, Moldova, Netherlands, Norway, China, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tadzhikistan, Taiwan, Transcaucasus, Turkey, Ukraine, England, Scotland, United States of America, USSR, Former Yugoslavia.

SUBFAMILY: TETRASTICHINAE**Genus: Aprostocetus Westwood, 1833****Aprostocetus artemisicola Graham, 1987***

Host: Cecidomyiidae (Diptera) on *Artemisia* spp. (Hesami et al. 2010).

Distribution: Iran: Fars Province (Hesami et al. 2010). Outside Iran: Italy, Germany, Russia, Spain, England.

Aprostocetus aurantiacus (Ratzeburg, 1852)

Host: *Diplolepis* sp. (Hymenoptera: Cynipidae) (Lotfalizadeh et al. 2006).

Distribution: Iran: East Azarbaijan Province (Lotfalizadeh et al. 2006). Outside Iran: Austria, Czech Republic, Denmark, Finland, France, Germany, Hungary, Netherlands, Russia, Spain, Sweden, England.

Aprostocetus beyazus Doganlar, 1992

Host: unkown.

Distribution: Iran (Doganlar 1992). Not recorded outside Iran

Aprostocetus bucculentus Kostjukov, 1978

Host: *Eurytoma amygdali* Enderlein (Hymenoptera: Eurytomidae) (Lotfalizadeh et al. 2008; Yefremova et al. 2007).

Distribution: Iran: Chaharmahal-Bakhtiari (Yefremova et al. 2007), Yazd and Qazvin Provinces (Lotfalizadeh et al. 2008). Outside Iran: Armenia, Israel, Turkey.

Aprostocetus ceroplastae (Girault, 1916)*

Host: *Planococcus vovae* (Nasonov) (Hemiptera: Pseudococcidae) (Talebi et al. 2008).

Distribution: Iran: Tehran Province (Talebi et al. 2008). Outside Iran: Australia, Egypt, France, Greece, Israel, Italy, Lebanon, Libya, Madagascar, Mauritius, Morocco, China, South Africa, Turkey, Uganda, United States of America.

Aprostocetus eurytomae (Nees, 1834)

Host: *Diplolepis fructuum* (Rübsamen) (Hymenoptera: Cynipidae) (Lotfalizadeh et al. 2006).

Distribution: Iran: East Azarbaijan Province (Lotfalizadeh et al. 2006). Outside Iran: Armenia, Czech Republic, Finland, France, Germany, Morocco, Netherlands, Norway, Poland, Russia, Spain, Sweden, Turkey, England.

Aprostocetus forsteri (Walker, 1847)

Host: *Cephus pygmaeus* L. (Hymenoptera: Cephidae) (Yefremova et al. 2007).

Distribution: Iran: Tehran Province (Yefremova et al. 2007); Fars Province (Hesami 2009). Outside Iran: Austria, Bulgaria, Cyprus, Czech Republic, France, Hungary, Italy, Russia, Slovakia, Spain, Sweden, Switzerland, Turkey, Former Yugoslavia.

Aprostocetus lachares (Walker, 1839)

Host: unknown.

Distribution: Iran: Mazandaran Province (Domenichini 1966; Graham 1987); Fars Province (Hesami et al. 2006b). Outside of Iran: France, Sweden, England.

Aprostocetus neglectus (Domenichini, 1957)

Host: unknown.

Distribution: Iran (Domenichini 1966; Graham 1987). Outside Iran: Austria, Czech Republic, France, Georgia, Germany, Greece, Hungary, India, Israel, Italy, Moldova, Morocco, Pakistan, Russia, Sweden, Turkey, England, USSR.

Aprostocetus persicus Yefremova and Yegorenko, 2007

Host: *Bactrocera zonata* (Saunders) (Saunders) on *Mango* sp. (Yefremova et al. 2007).

Distribution: Iran: Hormozgan Province (Yefremova et al. 2007). Outside Iran: This species has not already been recorded outside Iran

Aprostocetus toddaliae (Risbec, 1958)*

Host: *Ceroplastes rusci* L. (Hemiptera: Coccoidea).

Distribution: Iran: Fars Province (Fallahzadeh et al. 2008). Outside Iran: Israel, Madagascar, Turkey.

Aprostocetus trjapitzini (Kostjukov, 1976)*

Host: *Planococcus ficus* (Signoret) (Hemiptera: Pseudococcidae) (Fallahzadeh et al. 2008).

Distribution: Iran: Fars Province (Fallahzadeh et al. 2008). Outside Iran: Germany, Kazakhstan, Moldova, Netherlands, Romania, Russia, Sweden, Tadzhikistan, Turkey, England, Uzbekistan.

***Aprostocetus venustus* (Gahan, 1914)**

Host: *Contarinia tritici* Kirby (Diptera: Cecidomyiidae) on *Mango* (Yefremova et al. 2007).

Distribution: Iran: Sistan-Baluchestan Province (Yefremova et al. 2007). Outside Iran: Bulgaria, Canada, Canary Islands, Czech Republic, France, Germany, Hungary, Italy, Netherlands, Russia, Slovakia, Spain, Sweden, United States of America, USSR, Former Yugoslavia.

***Aprostocetus zosimus* (Walker, 1839)**

Host: *Diplolepis rosae* (L.) (Graham 1991; Hesami et al. 2006b).

Distribution: Iran: Fars Province (Graham 1991; Hesami et al. 2006b). Outside Iran: Azores, Canada, Czech Republic, Denmark, France, Germany, Hungary, Ireland, Italy, Moldova, Netherlands, New Zealand, Norway, Russia, Slovakia, Spain, Sweden, Switzerland, Tunisia, Ukraine, England, United states of America, USSR.

Genus: *Baryscapus* Förster, 1856

Baryscapus anasillus* Graham, 1991

Host: *Andricus lucidus* (Hartig), *A. megalucidus* Melika, Stone, Sadeghi & Pujade-Villar, *Nuroterus lanuginosus* Giraud (asexual Generation), *N. numismalis* (Fourcroy), *N. saliens* (Kollar) (sexual generation) (Hymenoptera: Cynipidae) (Nazemi-Rafie et al. 2007).

Distribution: Iran: Kordistan, Kermanshah and Ilam Provinces (Nazemi-Rafie et al. 2007). Outside Iran: France.

***Baryscapus conwentziae* (Ferriere, 1959)**

Host: *Phyllocnistis citrella* Stainton (Lepidoptera: Gracillariidae) (Ebrahimi et al. 2009; Yefremova et al. 2007).

Distribution: Iran: Sistan-Baluchestan Province (Ebrahimi et al. 2009; Yefremova et al. 2007). Outside Iran: Austria, Georgia, Germany, Italy, Netherlands, England.

***Baryscapus endemus* (Walker, 1839)**

Host: *Phyllocnistis citrella* Stainton (Lepidoptera: Gracillariidae) (Ebrahimi et al. 2009; Yefremova et al. 2007).

Distribution: Iran: Sistan-Baluchestan Province (Ebrahimi et al. 2009; Yefremova et al. 2007). Outside Iran: Austria, Bulgaria, Denmark, France, Germany, Hungary, Ireland, Moldova, Netherlands, Norway, Poland, Russia, Spain, Sweden, Switzerland, Turkey, Ukraine, England, USSR, Former Yugoslavia.

Baryscapus erynniae* (Domenichini, 1965)

Host: *Erynniopsis antennata* (Diptera: Tachinidae) on *Galerucella luteola* (Coleoptera: Chrysomelidae) (Khalili Mahani et al. 2003).

Distribution: Iran: Isfahan (Khalili Mahani et al. 2003); Fars Province (Hesami et al. 2010). Outside Iran : Bulgaria,

Italy, France, America.

***Baryscapus evonymellae* (Bouché, 1834)**

Host: *Yponomeuta* sp. (Lepidoptera: Yponomeutidae) (Shojaei 1968).

Distribution: Iran: Tehran Province (Shojaei 1968) and Fars Province (Graham 1991; Hesami et al. 2006b). Outside Iran: Armenia, Azerbaijan, Belgium, Bosnia Herzegovina, Bulgaria, Czech Republic, France, Germany, Hungary, Italy, Kirgizia, Lithuania, Moldova, Netherlands, Poland, Romania, Russia, Spain, Sudan, Sweden, Switzerland, Transcaucasus, Turkey, Ukraine, England, United States of America, USSR, Serbia.

***Baryscapus hylesini* Graham, 1991**

Host: *Agrilus suvorovi populneus* Schaeff. (Coleoptera: Buprestidae), *Hylesinus fraxini* Panzer (Coleoptera: Curculionidae) (Yefremova et al. 2007).

Distribution: Iran: Isfahan Province (Yefremova et al. 2007). Outside Iran: Italy, Palaearctic, Russia, Sweden, England.

Baryscapus impeditus* (Nees, 1834)

Host: *Liriomyza trifolii* (Diptera: Agromyzidae) (Dousti et al. 2008).

Distribution: Iran: Fars Province (Dousti et al. 2008). Outside Iran: Andorra, Bulgaria, Croatia, Czech Republic, France, Germany, India, Italy, Moldova, Netherlands, Pakistan, Russia, Slovakia, Sweden, Turkey, Serbia.

***Baryscapus nigroviolaceus* (Nees, 1834)**

Host: *Leucoptera scitella* (Zeller), *Lyonetia clerkella* Linnaeus (Lepidoptera: Lyonetidae) (Esmaili 1983; Shojaei et al. 2000; Shojaei et al. 2002); *Hypera postica* Fabreius (Coleoptera: Curculionidae) (Yefremova et al. 2007).

Distribution: Iran: Khorasan Razavi Province (Yefremova et al. 2007), Tehran Province (Esmaili 1983; Shojaei et al. 2000; Shojaei et al. 2002). Outside Iran: Austria, Bulgaria, Czech Republic, France, Germany, Hungary, Italy, Moldova, Russia, Spain, Sweden, Switzerland, Turkey, Ukraine, United Kingdom, England, USSR, Former Yugoslavia.

***Baryscapus oophagus* (Otten, 1942)**

Host: *Phyllocnistis citrella* Stainton (Lepidoptera, Gracillariidae) (Ebrahimi et al. 2009; Yefremova et al. 2007).

Distribution: Iran: Sistan-Baluchestan Province (Ebrahimi et al. 2009; Yefremova et al. 2007), Fars Province (Hesami et al. 2010). Outside Iran: Bulgaria, Czech Republic, France, Germany, Poland, Russia, Sweden.

***Baryscapus pallidae* Graham, 1991**

Host: unkown.

Distribution: Iran (Graham 1991). Outside Iran: France, Sweden, Turkey, England.

Baryscapus sugonjaevi* (Kostjukov, 1976)

Host: *Planococcus ficus* (Signoret) (Hemiptera: Coccoidea) (Fallahzadeh et al. 2008).

Distribution: Iran: Fars Province (Fallahzadeh et al. 2008). Outside Iran: Armenia, Georgia, Germany, Kazakhstan, Kirgizia, Moldova, Romania, Russia, Sweden, Tadzhikistan.

Genus: *Chouioia* Yang, 1989

***Chouioia cunea* Yang, 1989**

Host: *Hyphantria cunea* (Drury) (Lepidoptera: Arctiidae) (Rezaei et al. 2003).

Distribution: Iran: Guilan Province (Rezaei et al. 2003). Outside Iran: Italy, Japan, Korea, China.

Genus: *Citrostichus* Boucek, 1988***Citrostichus phillocnistoides* (Narayanan, 1960)**

Host: *Phyllocoptis citrella* Stainton (Lepidoptera: Gracillariidae) (Ebrahimi et al. 2009; Yefremova et al. 2007).

Distribution: Iran: Kerman Province (Ebrahimi et al. 2009; Yefremova et al. 2007). Outside Iran: Afghanistan, Argentina, Australia, Greece, India, Israel, Italy, Japan, Jordan, Morocco, Oman, Pakistan, China, Spain, Taiwan, Thailand.

Genus: *Leptocybe* Fisher and LaSalle, 2004***Leptocybe invasa* Fisher and LaSalle, 2004**

Host: Galling wasp on *Eucalyptus* sp. (Hesami et al. 2004).

Distribution: Iran: Fars Province (Hesami et al. 2004; Thu et al. 2009). Outside Iran: Algeria, Australia, Brazil, India, Israel, Italy, Jordan, Kenya, Morocco, Spain, Syria, Thailand, Turkey, Uganda, Vietnam.

Genus: *Melittobia* Westwood, 1848***Melittobia acasta* (Walker, 1839)**

Host: unkown.

Distribution: Iran: Iran (Thompson 1955). Outside Iran: Argentina, Austria, Azores, Bulgaria, Canada, Caucasus, Czech Republic, Denmark, Finland, France, Germany, Guam, Hungary, India, Italy, Japan, Kazakhstan, Madeira, Moldova, Netherlands, New Zealand, North Africa, China, Poland, Russia, Sri Lanka, Sweden, Switzerland, Ukraine, England, United States of America, USSR, Venezuela, Former Yugoslavia.

Genus: *Minotetrastichus* Kostjukov, 1977***Minotetrastichus frontalis* (Nees, 1834)***

Host: *Phyllonorycter corylifoliella* (Hübner) (Lepidoptera: Gracillariidae) (Amiri et al. 2009).

Distribution: Iran: Fars Province (Amiri et al. 2009). Outside Iran: Austria, Bosnia Herzegovina, Bulgaria, Canada, Canary Islands, Croatia, Czech Republic, Denmark, Finland, France, Germany, Hungary, Ireland (north and south), Italy, Macedonia, Moldova, Netherlands, Norway, Pakistan, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, United Arab Emirates, England, United States of America, USSR, Former Yugoslavia.

***Minotetrastichus platenellus* (Mercet, 1922)**

Host: unkown.

Distribution: Iran: Iran (Haeselbarth 1983). Outside Iran: Bulgaria, Czech Republic, France, Georgia, Germany, Greece, Hungary, Israel, Italy, Netherlands, Slovakia, Ukraine, England, Former Yugoslavia.

Genus: *Neotrichoporoides* Girault, 1913***Neotrichoporoides szelenyi* (Erdos, 1951)***

Host: unkown.

Distribution: Iran: Fars Province (Hesami et al. 2010). Outside Iran: Azerbaijan, Bulgaria, Czech Republic, Greece, Hungary, Italy, Portugal, Saudi Arabia.

Genus: *Oomyzus* Rondani, 1870***Oomyzus brevistigma* (Gahan, 1936)**

Host: *Galerucella luteola* (Müller) (Coleoptera: Chrysomelidae) (Azmayesh-Fard and Esmaili 1981).

Distribution: Iran: Tehran and Fars Provinces (Azmayesh-Fard and Esmaili 1981; Dreistadt and Dahlsten 1991). Outside Iran: United States of America, Greece.

***Oomyzus gallerucae* (Fonscolombe, 1832)**

Host: *Galerucella luteola* (Muller) (Coleoptera: Chrysomelidae).

Distribution: Iran: Tehran Province (Azmayesh-Fard and Esmaili 1981) (recorded as *Tetrastichus xanthomelaenae* Rondai); Markazi and Fars Provinces (Boucek 1977; Domenichini 1966; Dreistadt and Dahlsten 1991; Shojaei 1989). Outside Iran: France, Hungary, Italy, Romania, United States of America.

***Oomyzus incertus* (Ratzeburg, 1844)**

Host: *Hypera postica* (Gyllenhal) (Coleoptera: Curculionidae) (Alizadeh et al. 2000; Domenichini 1966; Esmaili and Habibi 1974; Habibi 1977; Kamali et al. 1978; Kostjukov 1978; Mirabzadeh 1986; Monadjemi 1975a, b).

Distribution: Iran: West Azarbaijan and Tehran Provinces (Alizadeh et al. 2000; Domenichini 1966; Esmaili and Habibi 1974; Habibi 1977; Kamali et al. 1978; Kostjukov 1978; Mirabzadeh 1986; Monadjemi 1975a, b). Outside Iran: Armenia, Bulgaria, Canada, Czech Republic, Finland, France, Germany, Hungary, Ireland north and south, Italy, Kazakhstan, Moldova, Netherlands, Poland, Russia, Sweden, Switzerland, Tselinograd Obl., England, United States of America, USSR.

Oomyzus sokolowskii* (Kurdjumov, 1912)

Host: *Plutella xylostella* (Linnaeus) (Golizadeh et al. 2008).

Distribution: Iran: Tehran Province (Golizadeh et al. 2008). Outside Iran: Antigua and Barbados, Australia, Azerbaijan, Bangladesh, Belize, Benin, Bermuda, Brazil, Bulgaria, Canada, Caribbean (including West Indies), Chile, Dominican Republic, Egypt, Fiji, France, Guam, Hungary, India, Italy, Jamaica, Japan, Kenya, Korea, South, Leeward Islands, Malaysia, Mexico, Montserrat, Pakistan, China, Romania, Russia, South Africa, Sri Lanka, Switzerland, Taiwan, Trinidad & Tobago, Ukraine, United States of America, USSR.

Genus: *Pronotalia* Gradwell, 1957***Pronotalia orobanchiae* Graham, 1991**

Host: *Phytomyza orobanchia* (Kaltenbach) (Diptera: Agromyzidae) (Cikman and Doganlar 2006).

Distribution: Iran: Tehran Province (Cikman and Doganlar 2006; Graham 1991). Outside Iran: Bulgaria, Uzbekistan, Former Yugoslavia.

Genus: *Sigmophora* Rondani, 1867

Sigmophora brevicornis (Panzer, 1804)

Host: *Diplolepis rosae* (L.) (Hymenoptera: Cynipidae) (Hesami et al. 2006b).

Distribution: Iran: Tehran Province (Hesami et al. 2006b). Outside Iran: Andorra, Austria, Bulgaria, Canada, Croatia, Cyprus, Czech Republic, Denmark, Finland, France, Georgia, Germany, Greece, Hungary, India, Ireland, Israel, Italy, Japan, Korea, Lebanon, Macedonia, Moldova, Morocco, Netherlands, Norway, Pakistan, Portugal, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Thailand, Turkey, Ukraine, England, USSR, Vietnam, Former Yugoslavia.

Genus: *Tamarixia* Mercet, 1924

Tamarixia radiata (Waterston, 1922)*

Host: *Diaphorina citri* Kuwayama (Hemiptera: Psyllidae) (Hasanpour et al. 2009).

Distribution: Iran: Hormozgan Province (Hasanpour et al. 2009). Outside Iran: Guadeloupe, India, Japan, Pakistan, South Africa, Swaziland, Taiwan, United States of America, Vietnam, Zimbabwe.

Tamarixia upis (Walker, 1839)

Host: *Phyllocnistis citrella* Stainton (Lepidoptera: Gracillariidae) (Ebrahimi et al. 2009; Yefremova et al. 2007).

Distribution: Iran: Sistan-Baluchestan Province (Ebrahimi et al. 2009; Yefremova et al. 2007). Outside Iran: Bulgaria, Czech Republic, France, Germany, Italy, Moldova, Netherlands, Russia, Slovakia, Sweden, England, Former Yugoslavia.

Genus: *Tetrastichus* Haliday, 1844

Tetrastichus epilachnae (Giard, 1896)

Host: Coccinellidae (Coleoptera) (Farahbakhsh 1961).

Distribution: Iran: Tehran Province, Caspian sea area (Herting 1973) (Farahbakhsh 1961). Outside Iran: Bulgaria, Croatia, France, Hungary, India, Italy, Macedonia, Morocco, Netherlands, Pakistan, Slovakia, Sweden, USSR, Former Yugoslavia.



FIGURE 1. Iran's provinces where the eulophid wasps have been collected.

TABLE 1. Comparison in number of genera and species of Iranian eulophids belonging to different subfamilies.

Eulophid wasps	NUMBER OF GENERA		NUMBER OF SPECIES	
	World	Iran	World	Iran
Eulophidae	297	37	4472	106
Entedoninae	87	7	1307	19
Entiinae	17	1	148	1
Eulophinae	97	16	1316	45
Tetrastichinae	91	13	1644	41

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LITERATURE CITED

- Akbari-Noushad, S.D. 1995. Biology of alfalfa weevil, *Hypera postica* (Gyll.) (Col.: Curculionidae) in East Azarbaijan. *12th Iranian Plant Protection Congress*, Vol. 1, Pests: 92.
- Alavi, J., J. La Salle and M. Ahmadi. 2002. Report of two citrus leafminer parasitoid wasps in Golestan Province. *15th Iranian Plant Protection Congress*, Vol. 1, Pests: 100.
- Alizadeh, I., M.H. Safaralizadeh and N. Shayesteh. 2000. Biology of alfalfa weevile (*Hypera postica* Gyll.) and identification of its parasitoids and dominant species in Maku and Chaldoran regions. *14th Iranian Plant Protection Congress*, Vol. 1, Pests: 27.
- Amiri, A., A.A. Talebi, P. Navone and Z. Yefremova. 2009. Parasitoid wasp complex of *Phyllonorycter corylifoliella* (Lep.: Gracillariidae) in the Fars Province of Iran, and notes on their morphology and abundances. *Applied Entomology and Phytopathology* 77(1): 1-14.
- Asadi, R., A.A. Talebi, Y. Fathipour, S. Moharamipour and E. Rakhshani. 2006. Identification of parasitoids and seasonal parasitism of the Agromyzid leafminers genus *Liriomyza* (Dip.: Agromyzidae) in Varamin, Iran. *Journal of Agricultural Science and Technology* 8: 293-303.
- Askew, R.R., O. Plantard, J.F. Gómez, M. Hernandez Nieves, and J.L. Nieves-Aldrey. 2006. Catalogue of parasitoids and inquilines in galls of Aylacini, Diplolepini and Pediaspidini (Hym., Cynipidae) in the West Palaearctic. *Zootaxa* 1301: 1-60.
- Azmayesh-Fard, P. and M. Esmaili. 1981. An investigation on the species of elm leaf beetle parasitoids and their application for population density reduction of their host in Karadj. *Journal of Entomological Society of Iran* 6(1/2): 21-31.
- Behdad, E. 1982. *Pests of Field Crops in Iran*. Isfahan: Plant Pests and Diseases Research Institute. 589 p.
- Boucek, Z. 1977. A faunistic review of the Yugoslavian Chalcidoidea (Parasitic Hymenoptera). *Acta Entomologica Jugoslavica* 13: 1-116.
- Boucek, Z. and R.R. Askew. 1968. Index of Palaearctic Eulophidae (excl. Tetrastichinae). *Index of Entomophagous Insects* 3: 1-254.
- Cikman, E. and M. Doganlar. 2006. Parasitoids of natural populations of *Phytomyza orobanchia* (Kaltenbach, 1864) (Diptera: Agromyzidae) in Southeastern Anatolia. *Journal of Applied Science Research* 2(6): 327-330.
- Davatchi, A. and M. Shojaei. 1989. *Entomophagus Hymenoptera of Iran*. Tehran: University of Tehran. 90 p.
- Doganlar, M. 1992. A new species of *Aprostocetus* Westwood, 1833 from Iran (Hymenoptera, Eulophidae, Tetrastichinae). *Entomofauna* 13(31): 529-533.
- Domenichini, G. 1966. Index of Palaearctic Tetrastichinae (Hymenoptera: Eulophidae). *Index of Entomophagous Insects* 1: 1-101.
- Dousti, A.F. 2008. First record of *Diglyphus poppoea* (Hym.: Eulophidae) from Iran. *Journal of Entomological Society of Iran* 27(2): 25-26.
- Dousti, A.F., K. Kamali, G. Nouri Ganbalani and H. Ostovan. 2008. Report of four Hymenopteran species of Eulophidae, parasitoids of *Liriomyza trifolii* (Dip.: Agromyzidae) in Shiraz, Iran. *Journal of Entomological Society of Iran* 27(2): 9-10.
- Dreistadt, S.H. and D.L. Dahlsten. 1991. Distribution and abundance of *Erynniopsis antennata* (Dipt.: Tachinidae) and *Tetrastichus brevistigma* (Hym.: Eulophidae), two introduced elm leaf beetle parasitoids in northern California. *Entomophaga* 35(4): 527.
- Ebrahimi, E., M. Malekzadeh and Z. Yefremova. 2009. Parasitoid wasps of *Phyllocnistis citrella* (Lep., Gracillariidae) in Iran. *Applied Entomology and Phytopathology* 76(2): 81-92.
- Eghtedar, E. 1989. Some biological researches on beet army worm in the Shiraz region, Iran. *Applied Entomology and Phytopathology* 56: 57-63.
- Esmaili, M. 1983. *The important pests of fruit trees*. Tehran: Sepehr Publication. 578 p.
- Esmaili, M. and J. Habibi. 1974. Biological investigation on *Hypera postica* in Iran. *5th Iranian Plant Protection Congress*, Vol. 1, Pests: 83-84.
- Fallahzadeh, M., M. Naghibinejad, M. Shojaei and H. Ostovan. 2006. The first report of two species of Eulophidae (Hymenoptera) from Iran. *Applied Entomology and Phytopathology* 73(2): 44.
- Fallahzadeh, M., M. Shojaei, H. Ostovan and K. Kamali. 2008. Natural enemies of *Planococcus ficus* (Hemiptera: Pseudococcidae) in Fars Province vineyards, Iran. *18th Iranian Plant Protection Congress*, Vol. 1, Pests: 79.
- Farahbakhsh, G. 1961. *A checklist of economically important insects and other enemies of plants and agricultural products of Iran*. Tehran: Ministry of Agriculture, Department of Plant Protection. 153 p.
- Ghahari, H., J. Huang, S. Abd-Rabou, H. Ostovan and Z.H. Wang. 2006. A contribution of the Iranian Platygasteridae, Eulophidae and Aphelinidae (Hymenoptera) as the parasitoids of whiteflies (Homoptera: Aleyrodidae). *Entomological Journal of East China* 15(3): 166-170.
- Golizadeh, A., K. Kamali, Y. Fathipour, H. Abbasipour and H. Baver. 2008. First record of *Oomyzus sokolowskii* (Hym.: Eulophidae) from Iran. *Journal of Entomological Society of Iran* 27(2): 29-30.
- Graham, M.W.R.D.V. 1987. A reclassification of the European Tetrastichinae (Hymenoptera: Eulophidae), with a revision of certain genera. *Bulletin of the British Museum (Natural History) (Entomology)* 55(1): 292-293.
- Graham, M.W.R.D.V. 1991. Reclassification of European Tetrastichinae (Hymenoptera: Eulophidae): revision of the remaining genera. *Memories of the American Entomological Institute* 42: 1-322.
- Gumovsky, A. 1999. Review of the genus *Entedon* Dalman, 1820 (Hymenoptera, Eulophidae, Entedoninae). 4. Revision of the *cyanellus* species group. *Annales Historico-Naturales Musei Nationalis Hungarici* 91: 141-176.
- Gumovsky, A.V. 2003. Review and taxonomic notes on the genus *Derostenus* (Hym.: Eulophidae). *Vestnik zoologii* 37(6): 3-14.
- Habibi, J. 1977. The bioecology of alfalfa weevile and its control in Karaj. *Applied Entomology and Phytopathology* 44: 23-41.
- Haeselbarth, E. 1985. Determination list of entomophagous insects 10. *Bulletin, Section Regionale Ouest Palaearctique, Organisation Internationale de Lutte Biologique* 8(4): 33.
- Hasanpour, M., A.A. Talebi, E. Rakhshani and A. Ameri-Siahouei. 2009. Identification of natural enemies of citrus psylla, *Diaphorina citri* Kuwayama (Hem., Psyllidae) in Hormozgan Province. *Journal of Entomological Research Society* 1(3): 185-195.
- Herting, B. 1973. Coleoptera to Strepsiptera. A catalogue of parasites and predators of terrestrial arthropods. Section A. Host or Prey/Enemy. Commonwealth Agricultural Bureaux, Institute of Biological Control 3: 9-11.
- Hesami, S. 2009. *Faunistic study of eulophid wasps (Hymenoptera: Eulophidae) and biology of Closterocerus formosus in central region of Fars Province*. Tehran: Islamic azad University, Science and Research Branch. 157 p.
- Hesami, S., H. Alemanpour and S. Seyedebrahimi. 2004. Preliminary biology of *Leptocybe invasa* (Hym.: Eulophidae) the galling wasp of *Eucalyptus camaldulensis* in Shiraz, Iran. *Journal of Entomological Society of Iran* 24(2): 99-106.
- Hesami, S., Z. Yefremova and S. Seyedebrahimi. 2006a. First report of *Cirrospilus variegatus* (Hym.: Eulophidae) Parasitoid of leaf miners in Iran. *Journal of Entomological Society of Iran* 26(1): 93-94.
- Hesami, S., Z. Yefremova, E. Ebrahimi and H. Ostovan. 2006b. Little known and new species of Eulophidae (Hymenoptera: Chalcidoidea) from Iran. *Entomofauna* 27(28): 393-402.
- Hesami, S., Z. Yefremova, E. Ebrahimi and H. Ostovan. 2008. Note referring to the description of *Diglyphus scapus* (Hymenoptera: Eulophidae). *Journal of Entomological Society of Iran* 27(2 supplement): 27.
- Hesami, S., E. Ebrahimi, H. Ostovan, M. Shojaei, K. Kamali, Z. Yefremova and E. Yegorenkova. 2010. Contribution to the study of Eulophidae (Hymenoptera: Chalcidoidea) of Fars Province of Iran: I- subfamilies Entedoninae and Tetrastichinae. *Munis Entomology & Zoology* 5(1): 148-157.
- Jafari, M.E. 2000. Identification of one parasitoid of citrus leafminer. *14th Iranian Plant Protection Congress*, Vol. 1, Pests: 267.

- Kamali, K., E. Soleiman-Nejadian and G.W. Bishop. 1978. Biology of the Egyptian alfalfa weevil in Khuzestan, Southwestern province of Iran. *Annals of the Entomological Society of America* 71(2): 196-198.
- Khalili Mahani, M., B. Hatami, H. Seyedoleslami and J. Lassal. 2003. Report of *Baryscapus erynniae* (Hym.: Eulophidae) from Iran. *Journal of Entomological Society of Iran* 22: 87-88.
- Kostjukov, V.V. 1978. *Hymenoptera II. Chalcidoidea 13. Eulophidae (Tetrastichinae)*. City: Opred. Nasek Evrop. Chasti SSSR. 442 p.
- Lotfali Zadeh, H., J.Y. Rasplus and G. Delvare. 2006. Rose gall wasps and their associated fauna (Hymenoptera) in Iran. *Redia* 89: 73-85.
- Lotfali Zadeh, H., A. Avand-faghah, S. Roshandel and A. Jafari-Nadooshan. 2008. Parasitoids of Almond seed wasp *Eurytoma amygdali* Enderlein (Hym.: Eurytomidae) in Iran. *Applied Entomology and Phytopathology* 75(2): 151-152.
- Mehrnejad, M.R. and M. Basirat. 2009. Parasitoid complex of the pistachio twig borer moth, *Kermania pistaciella*, in Iran. *Biocontrol Science and Technology* 19(5): 499-510.
- Mirabzadeh, A. 1986. Investigation of integrated control against alfalfa weevile (*Hypera postica*). *8th Iranian Plant Protection Congress, Vol. 1, Pests*: 28-29.
- Monadjemi, N. 1975a. Contribution to the study of the hymenopterous parasites of *Hypera postica* (Col. Curculionidae) in Iran. *Journal of Entomological Society of Iran* 2(2): 65-66.
- Monadjemi, N. 1975b. Contribution a l'étude des hyménoptères parasites de *Hypera postica* (Col. Curculionidae) en Iran. *Journal of Entomological Society of Iran* 2: 85-99.
- Naseri, M., M.H. Safaralizadeh and O.A. Yazdanshenas. 1998. Introduction of *Euplectrus bicolor* Swedeus ectoparasitoid of *Mythimna loreyi* Dup. *13th Iranian Plant Protection congress, Vol. 1, Pests*: 58.
- Nazemi-Rafie, J., A.A. Talebi, E. Sadeghi and G. Melika. 2007. Parasitoids (Hym., Chalcidoidea) reared from Oak Gall Wasps (Hym., Cynipidae) in West of Iran, with five new species records. *Journal of Entomological Research Society* 9(3): 43-56.
- Noyes, J.S. 2010. Universal Chalcidoidea Database. Electronic Database accessible at www.nhm.ac.uk/chalcidoids/index.html. Natural History Museum, London, United Kingdom. Captured on 22 May 2010.
- OILB. 1971. *Liste d'identification des entomophages 8*. Geneve: 64 p.
- Pirhadi, A., G. Radjab, E. Ebrahimi, H. Ostovan, B. Shekarian Moghaddam, A.A. Mohiseni, F. Mozaffarian, and S. Ghavami. 2008. Natural enemies of cereal leaf miner *Syringopais temperatella* Led. (Lep.: Elachistidae) in Lorestan Province. *18th Iranian Plant Protection Congress, Vol. 1, Pests*: 71.
- Radjabi, G. 1986. *Insects attacking rosaceous fruit trees in Iran, Lepidoptera*. Tehran: Plant Pest and Diseases Research Institute. 212 p.
- Rakhshani, E., A.A. Talebi, S.E. Sadeghi, E. Ebrahimi and C. Thuroczy. 2003. Report of five wasps species associated with Dog rose galls in Iran. *Journal of Entomological Society of Iran* 23(1): 108.
- Rezaei, V., S. Moharamipour and A.A. Talebi. 2003. The first report of *Psychophagus omnivorus* (Walker) and *Chouioia cunea* Yang Parasitoids of American white webworm *Hyphantria cunea* Drury (Lep.: Arctiidae) from Iran. *Applied Entomology and Phytopathology* 70(2): 33.
- Sahragard, A. 1977. Bioecology of *Cephus pygmaeus* L. *5th Iranian Plant Protection Congress, Vol.1, Pests*: 61-62.
- Shojaei, M. 1968. Resultats de l'étude faunistique des hyménoptères parasites (Terebrants) en Iran et importance de leur utilisation dans la lutte biologique. *1th Iranian Plant Protection Congress, Vol. 1, Pests*: 25-35.
- Shojaei, M. 1989. *Entomology: Ethology, Social Life and Natural Enemies*. Tehran: University of Tehran Publication. 406 p.
- Shojaei, M., M. Esmaili and H. Ostovan. 2000. Integrated pest management of codling moth and other important pests of pomace fruit trees. *Journal of Agricultural Scince* 6: 15-45.
- Shojaei, M., H. Ostovan, M. Hosseini, M. Sadigfar, A. Khodaman, Y. Labbafi, A. Nasrollahi, F. Ghavam and S. Honarbakhsh. 2002. Biocenotic potentials of apple orchards IPM in organic crop production programme. *Journal of Agricultural Sciences* 8(1): 1-27.
- Talebi, A.A., A. Ameri, Y. Fathipour and E. Rakhshani. 2008. Natural enemies of cypress tree mealybug, *Planococcus vovae* (Nasonov) (Hem.: Pseudococcidae), and their parasitoids in Tehran. *Journal of Agricultural Science and Technology* 10: 123-133.
- Thompson, W.R. 1955. *A catalogue of the parasites and predators of insect pests. Section 2. Host parasite catalogue, Part 3. Hosts of the Hymenoptera (Calliceratid to Evaniid)*. City: Canada Commonwealth Agricultural Bureaux, The Commonwealth Institute of Biological Control. 290 p.
- Thu, P.Q., B. Dell, and I. Burgess. 2009. Susceptibility of 18 eucalypt species to the gall wasp *Leptocybe invasa* in the nursery and young plantations in Vietnam. *Science Asia* 35: 113-117.
- Waterston, J. 1915. Notes on African Chalcidoidea - II. *Bulletin of Entomological Research* 5(4): 343-372.
- Yefremova, Z., E. Ebrahimi, and E. Yegorenkova. 2007. The subfamilies Eulophinae, Entedoninae and Tetrastichinae in Iran, with description of new species (Hymenoptera: Eulophidae). *Entomofauna* 28(30): 405-440.
- Zahiri, B., S. Moharrampour and A.A. Talebi. 2004. First report of two wasp parasitoids *Hemiptarsenus zilahisebessi* and *H. wailesellae* from Iran. *Journal of Entomological Society of Iran* 24(1): 125-126.
- Zargaran, M.R., S.E. Sadeghi, V. Bakhshali Saatlo, and G. Melika. 2008. Identification of oak gallwasps parasitoides in west Azarbaijan. *18th Iranian Plant Protection congress, Vol. 1, Pests*: 83.

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