



## Iranian Braconidae (Insecta: Hymenoptera: Ichneumonoidea): diversity, distribution and host association

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**ABSTRACT.** An annotated list of Braconidae (Hymenoptera: Ichneumonoidea) for all species recorded from the territory of Iran during more than a hundred years (1901–2016) of research is given. A checklist of 780 species in 141 genera belonging to 26 subfamilies of Braconidae known from Iran is listed, among them 34 species are exclusive for the Iranian insect fauna. Host and distributional data in Iran are also provided.

**Key words:** Checklist, parasitic wasps, Braconidae, fauna, Iran.

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### Introduction

Hymenoptera are one of the most diverse insect orders worldwide, with more than 152,677 known species (Aguilar *et al.* 2013). Braconidae (Hymenoptera: Ichneumonoidea) is the second largest family of Hymenoptera, with 19,801 valid species belonging to 1,071 genera, but that probably is less than 20% of the total diversity worldwide (van Achterberg 2014). Members of Braconidae are distributed in all zoogeographical regions (Yu *et al.* 2012). The majority of the species are parasitoids especially upon the larval stages of insect pests in the various orders including Coleoptera, Diptera, Hymenoptera and Lepidoptera (Shaw and Huddleston 1991; Wharton 1997).

The first recorded braconid species from Iran was from the early 20<sup>th</sup> century (Szépligeti 1901). Telenga (1936, 1941, 1955) recorded several species for the Iranian braconid fauna. Hedwig (1957) recorded 26 species of Braconidae from south eastern Iran (Sistan & Bluchestan province), ten of which were described as new to science. Subsequently, Hellen (1958), Mackauer (1960), Fischer (1963), Mirabzadeh (1968), Davatchi and Shojai (1969) and Starý (1974, 1975, 1979, 1981) added several species to this list. Many studies have been conducted on the Braconidae fauna as scattered reports by Iranian researchers (eg. Monajemi and Esmaili 1981; Al-e-Mansour

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and Mostafavi 1993; Siahpoush *et al.* 1993; Mojeni 1994; Goldansaz *et al.* 1996; Shamszadeh 1998; Bagheri 1998; Abbasipour 2001). The braconid fauna of Iran has been subjected to extensive survey during the last decade (Rakhshani *et al.* 2004, 2005a-b, 2006a-b, 2007a-b, 2008a-c, 2012a-b; Farahani *et al.* 2012a-f, 2013a-d, 2014a-h, 2015a-b; Barahoei *et al.* 2012, 2013, 2014; Ameri *et al.* 2012, 2014a-d, 2015; Khajeh *et al.* 2014a-b; Peris-Felipo *et al.* 2014, 2015, 2016; Gadallah and Ghahari 2013a-b, 2015; Gadallah *et al.* 2015a-b, 2016a-b).

The last checklist of the Iranian Braconidae was published by Fallahzadeh and Saghaei (2010), who listed 202 species. Lashkari Bod *et al.* (2011a) added 11 new records species and reported 346 braconid species from Iran. Subsequently, 550 braconid species were recorded from Iran in Taxapad (Yu *et al.* 2012).

Species checklists are helpful tools in the fields of natural science. In the present work, a complete list of Braconidae from Iran is provided.

### Material and methods

The checklist includes all species of braconid wasps known to occur in Iran. All available data from the literature were used to compile this review paper. Synonyms for the species are not included because these data are readily accessible in Yu *et al.* (2012). Host associations are only presented for Iranian species that their hosts have been recorded from Iran.

Species names are arranged alphabetically by subfamily, tribe, genus and species. The classification, taxonomic arrangement, nomenclature and general distribution of braconid wasps followed Yu *et al.* (2012). These have been supplemented with some changes to the classifications based on van Achterberg (2014). All references concerning Iranian braconids are summarized. The

valid names and distribution in Iran are provided for each species.

### Results

A total of 780 species of Braconidae are listed bellow. The number of genera and species into subfamilies is (genus-species): from Agathidinae (9-33), Alysiinae (18-85), Aphidiinae (15-73), Blacinae (1-15), Brachistinae (4-18), Braconinae (11-115), Cardiochilinae (2-7), Cheloninae (4-67), Doryctinae (13-31), Euphorinae (16-53), Gnampodontinae (1-4), Helconinae (5-9), Homolobinae (1-3), Hormiinae (4-10), Ichneutinae (1-1), Macrocentrinae (1-7), Microgastrinae (8-102), Microtypinae (1-2), Miracinae (2-3), Opiinae (13-95), Orgilinae (1-12), Pambolinae (1-1), Rhysipolinae (2-3), Rhyssalinae (2-3), Rogadinae (4-27), and Sigalphinae (1-1). Of them 34 species are reported exclusively for Iranian fauna (Table 2).

#### Subfamily Agathidinae Haliday, 1833

##### Tribe Agathidini Haliday, 1833

##### *Agathis anglica* Marshall, 1885

General distribution: Palaearctic and Oriental.  
Distribution in Iran: Golestan (Samin *et al.* 2011; Ghahari *et al.* 2011d; Samin *et al.* 2015), Mazandaran (Ghahari *et al.* 2011d), Guilan (Ghahari *et al.* 2012c), West Azarbaijan (Samin *et al.* 2014).

##### *Agathis assimilis* Kokujev, 1895

General distribution: Palaearctic.  
Distribution in Iran: Semnan (Ghahari *et al.* 2009b), Guilan (Ghahari *et al.* 2012c).

##### *Agathis breviseta* Nees, 1812

General distribution: Palaearctic.  
Distribution in Iran: Lorestan (Ghahari *et al.* 2012a), Semnan (Naderian *et al.* 2012).

##### *Agathis fulmeki* Fischer, 1957

General distribution: Palaearctic.  
Distribution in Iran: West Azarbaijan, East Azarbaijan (Ghahari and Fischer 2011a), Golestan (Ghahari *et al.* 2011d), Guilan

(Ghahari *et al.* 2012c), Kuhgiloyeh & Boyerahmad (Samin *et al.* 2015b).

***Agathis fuscipennis* (Zetterstedt, 1838)**

General distribution: Palaearctic.

Distribution in Iran: West Azarbaijan (Ghahari *et al.* 2009d), Lorestan (Ghahari *et al.* 2012a), Alborz, Guilan, Qazvin, Tehran (Farahani *et al.* 2014a).

***Agathis glaucoptera* Nees, 1834**

General distribution: Palaearctic.

Distribution in Iran: Mazandaran (Ghahari *et al.* 2011d), West Azarbaijan, Ardabil (Ghahari and Fischer 2011a), Guilan (Ghahari and Fischer 2011b; Sakenin *et al.* 2012), Golestan (Samin *et al.* 2015).

***Agathis lugubris* (Förster, 1862)**

General distribution: Palaearctic.

Distribution in Iran: Golestan (Ghahari *et al.* 2010a), Ilam (Ghahari *et al.* 2011a), Kermanshah (Ghahari and Fischer 2012; Samin 2015).

***Agathis malvacearum* Latreille, 1805**

General distribution: Palaearctic and Nearctic.

General distribution: Distribution in Iran: Guilan (Ghahari *et al.* 2010a), Qazvin (Ghahari *et al.* 2011b), Mazandaran (Ghahari *et al.* 2011d), Lorestan (Ghahari *et al.* 2012a), Khuzestan, Charmahal & Bakhtiari (Samin *et al.* 2015b).

***Agathis melpomene* Nixon, 1986**

General distribution: Palaearctic.

Distribution in Iran: Mazandaran (Ghahari *et al.* 2010a; Ghahari and Fischer 2011b; Sakenin *et al.* 2012), Guilan (Ghahari and Fischer 2011b), Kermanshah (Ghahari and Fischer 2012).

***Agathis montana* Shestakov, 1932**

General distribution: Palaearctic and Oriental.

Distribution in Iran: Ardabil (Ghahari and Fischer 2011a), Golestan (Ghahari *et al.* 2011d; Samin *et al.* 2015).

***Agathis nigra* Nees, 1812**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Hellén 1956; Tobias 1986; Simbolotti and van Achterberg 1999), Golestan (Ghahari *et al.* 2011d), Guilan (Ghahari *et al.* 2012c).

***Agathis pumila* (Ratzeburg, 1844)**

General distribution: Palaearctic and Nearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c, reported as *Bassus pumilus*).

***Agathis rostrata* Tobias, 1963**

General distribution: Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a).

***Agathis rufipalpis* Nees, 1812**

General distribution: Palaearctic.

Distribution in Iran: East Azarbaijan (Ghahari *et al.* 2009b), Kermanshah (Ghahari and Fischer 2012).

***Agathis semiaciculata* Ivanov, 1899**

General distribution: Palaearctic and Oriental.

Distribution in Iran: Guilan (Ghahari and Fischer 2011b), Golestan (Sakenin *et al.* 2012), Qazvin (Samin 2015).

***Agathis syngenesiae* Nees, 1812**

General distribution: Palaearctic.

Distribution in Iran: Hamadan, Ilam (Ghahari *et al.* 2010b), Lorestan (Ghahari *et al.* 2012a), Fars (Samin *et al.* 2015b).

***Agathis tibialis* Nees, 1812**

General distribution: Palaearctic.

Distribution in Iran: Qazvin (Ghahari *et al.* 2011b), Kermanshah (Ghahari and Fischer 2012), Semnan (Ghahari and Gadallah 2015).

***Agathis umbellatarum* Nees, 1812**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2010a), Ilam (Ghahari *et al.* 2011a), Golestan (Ghahari *et al.* 2011d), Kermanshah (Ghahari and Fischer 2012), Tehran (Farahani *et al.* 2014a).

***Agathis varipes* Thomson, 1895**

General distribution: Palaearctic.

Distribution in Iran: West Azarbaijan (Samin *et al.* 2014).

***Bassus clauthalianus* (Ratzeburg, 1844)**

General distribution: Palaearctic.

Distribution in Iran: Ilam (Ghahari *et al.* 2011a).

***Bassus dimidiator* (Nees, 1834)**

General distribution: Palaearctic, Nearctic and Oriental.

Distribution in Iran: East Azarbaijan (Ghahari and Fischer 2011a), Tehran (Ghahari *et al.* 2011d), Kordestan (Samin 2015).

***Bassus linguarius* (Nees, 1812)**

General distribution: Palaearctic.

Distribution in Iran: Ardabil (Ghahari *et al.* 2009b), Lorestan (Ghahari *et al.* 2012a), Semnan (Ghahari and Gadallah 2015).

***Camptothlipsis armeniaca* (Telenga, 1955)**

General distribution: Palaearctic.

Distribution in Iran: East Azarbaijan (Ghahari *et al.* 2009d, reported as *Bassus armeniacus*), Guilan (Ghahari *et al.* 2010a, reported as *Baeognatha armeniaca*), Kermanshah (Ghahari and Fischer 2012, reported as *Baeognatha armeniaca*), Alborz (Farahani *et al.* 2014a).

***Lytopylus persicus* Farahani & Talebi, 2014**

General distribution: Iran (Palaearctic)

Distribution in Iran: Guilan, Mazandaran (Farahani *et al.* 2014a).

***Lytopylus rufipes* (Nees, 1812)**

General distribution: Palaearctic.

Distribution in Iran: Tehran (Shojai 1989, reported as *Braunsia rufipes*), East Azarbaijan (Ranjbar Aghdam and Fathipour 2010, reported as *Bassus rufipes*), West Azarbaijan (Akbarzadeh Shoukat *et al.* 2015).

Hosts: *Cydia pomonella* Linnaeus (Lep.: Tortricidae) (Ranjbar Aghdam and Fathipour 2010), *Spilonota ocellana* Denis & Schiffermüller (Lep.: Tortricidae) (Shojai 1989), *Lobesia botrana* Denis & Schiffermüller (Lep.: Tortricidae) (Akbarzadeh Shoukat *et al.* 2015).

***Therophilus tumidulus* (Nees, 1812)**

General distribution: Palaearctic and Oriental.

Distribution in Iran: Mazandaran (Ghahari *et al.* 2010a), Golestan (Ghahari *et al.* 2011d),

Lorestan (Ghahari *et al.* 2012a), Kermanshah (Ghahari and Fischer 2012), Kuhgiluyeh & Boyerahmad (Samin *et al.* 2015b, reported as *Bassus tumidulus*).

**Tribe Cremnoptini Sharkey, 1992*****Cremnops desertor* (Linnaeus, 1758)**

General distribution: Palaearctic, Nearctic and Oriental.

Distribution in Iran: Guilan, Mazandaran (Farahani *et al.* 2014a).

***Cremnops richteri* Hedwig, 1957**

General distribution: Iran.

Distribution in Iran: Sistan & Baluchestan (Hedwig 1957).

**Tribe Disophrini Sharkey, 1992*****Coccygidium transcaspicum* (Kokujev, 1902)**

General distribution: Palaearctic.

Distribution in Iran: Sistan & Baluchestan (Hedwig 1957), no specific locality cited (Tobias 1986; Sharkey 1998).

***Disophrys caesa* (Klug, 1835)**

General distribution: Palaearctic.

Distribution in Iran: Sistan & Baluchestan (Hedwig 1957), Lorestan (Ghahari *et al.* 2012a), Guilan, Mazandaran, Tehran (Farahani *et al.* 2014a).

Remarks: van Achterberg (2011, 2014) believes that *D. caesa* is distributed in South West Mediterranean and *D. caesa* (Klug, 1835) and *D. inculcatrix* (Kriechbaumer, 1898) which have been recorded from Iran (Hedwig 1957; Lashkari Bod *et al.* 2011a) should be considered as *D. initiator*.

***Disophrys dissors* Kokujev, 1903**

General distribution: Palaearctic.

Distribution in Iran: Mazandaran (Ghahari *et al.* 2009a).

***Disophrys inculcatrix* (Kriechbaumer, 1898)**

General distribution: Palaearctic.

Distribution in Iran: Fars (Lashkari Bod *et al.* 2011a).

**Tribe Earinini Sharkey, 1992*****Earinus elator* (Fabricius, 1804)**

General distribution: Palaearctic.

Distribution in Iran: East Azarbaijan (Ghahari and Fischer 2011a), Golestan (Ghahari *et al.* 2011d; Samin *et al.* 2015).

**Subfamily Alysinae Leach, 1815****Tribe Alysiini Leach, 1815*****Adelurola amplidens* (Fischer, 1966)**

General distribution: Iraq and Iran

Distribution in Iran: Kermanshah, Hormozgan (Peris-Felipo *et al.* 2016).

***Alloea contracta* (Haliday, 1833)**

General distribution: Palaearctic.

Distribution in Iran: Mazandaran (Ghahari *et al.* 2010b), Golestan (Samin *et al.* 2015).

***Alysia (Anarcha) rufidens* Nees, 1834**

General distribution: Palaearctic and Nearctic.

Distribution in Iran: West Azarbaijan (Samin *et al.* 2014).

***Angelovia elipsocubitalis* Zaykov, 1980**

General distribution: Palaearctic.

Distribution in Iran: Golestan (Ghahari and Fischer 2011c).

***Aphaereta difficilis* Nixon, 1939**

General distribution: Palaearctic.

Distribution in Iran: Ilam (Ghahari *et al.* 2011a).

***Aphaereta minuta* (Nees, 1811)**

General distribution: Palaearctic, Nearctic and Oceanic

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c, reported as *Asobara minuta*), Tehran (Khajeh *et al.* 2014a).

***Aspilota alfalfae* Fischer, Lashkari Bod, Rakhshani & Talebi, 2011**

General distribution: Iran.

Distribution in Iran: Fars (Fischer *et al.* 2011).

***Aspilota delicata* Fischer, 1973**

General distribution: Palaearctic.

Distribution in Iran: Ardabil (Ghahari *et al.* 2011d).

***Aspilota intermissa* Fischer, 1974**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Ghahari and Fischer 2011b, reported as *Dinotrema intermissum*).

***Dinotrema amoenidens* (Fischer, 1973)**

General distribution: Palaearctic and Oriental.

Distribution in Iran: Golestan (Samin *et al.* 2011, 2015).

***Dinotrema concinnum* (Haliday, 1838)**

General distribution: Palaearctic.

Distribution in Iran: Ilam (Ghahari *et al.* 2011a, *Synaldis maxima*), Qazvin (Ghahari *et al.* 2011b, reported as *Dinotrema concinna*).

***Dinotrema contracticorne* (Fischer, 1974)**

General distribution: Palaearctic.

Distribution in Iran: Kerman (Ghotbi Ravandi *et al.* 2015).

***Dinotrema cratocera* (Thomson, 1895)**

General distribution: Palaearctic.

Distribution in Iran: Golestan (Ghahari *et al.* 2010a), Kordestan (Samin 2015).

***Dinotrema significarium* (Fischer, 1973)**

General distribution: Palaearctic.

Distribution in Iran: Sistan & Baluchestan (Ghahari *et al.* 2010b), Golestan (Samin *et al.* 2015).

***Idiasta picticornis* (Ruthe, 1854)**

General distribution: Palaearctic and Oriental.

Distribution in Iran: Sistan & Baluchestan (Sedighi *et al.* 2014).

***Orthostigma beyarslani* Fischer, 1995**

General distribution: Palaearctic.

Distribution in Iran: Fars (Fischer *et al.* 2011; Lashkari Bod *et al.* 2010, 2011a), Kerman (Ghotbi Ravandi *et al.* 2015).

***Orthostigma laticeps* (Thomson, 1895)**

General distribution: Palaearctic and Oriental.

Distribution in Iran: Golestan (Ghahari and Fischer 2011c).

Remarks: Khajeh *et al.* (2014a) had erroneously recorded from Isfahan province with reference to Ghahari *et al.* (2011c).

***Orthostigma maculipes* (Haliday, 1838)**

General distribution: Palaearctic.

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c).

***Phaenocarpa brevipalpis* (Thomson, 1895)**

General distribution: Palaearctic.

Distribution in Iran: West Azarbaijan (Samin *et al.* 2014).

***Phaenocarpa ruficeps* (Nees, 1812)**

General distribution: Afrotropical, Palaearctic, Nearctic and Oriental.

Distribution in Iran: Khorasan Razavi (Ghahari *et al.* 2011d).

***Pseudopezomachus cursitans* (Ferrière, 1930)**

General distribution: Palaearctic.

Distribution in Iran: Golestan (Ghahari and Fischer 2011c).

***Pseudopezomachus masii* Nixon, 1940**

General distribution: Palaearctic.

Distribution in Iran: Ilam (Ghahari *et al.* 2011a).

***Synaldis concolor* (Nees, 1812)**

General distribution: Palaearctic.

Distribution in Iran: Fars (Lashkari Bod *et al.* 2010, 2011a), Qazvin (Ghahari *et al.* 2011b), East Azarbaijan (Rastegar *et al.* 2012), Eastern Iran (Yari *et al.* 2014), Kerman (Ghotbi Ravandi *et al.* 2015).

***Synaldis distracta* (Nees, 1834)**

General distribution: Palaearctic and Oriental.

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c), Eastern Iran (Yari *et al.* 2014), Kerman (Ghotbi Ravandi *et al.* 2015).

***Synaldis megastigma* Fischer, 1967**

General distribution: Palaearctic.

Distribution in Iran: Golestan (Ghahari *et al.* 2011d).

Remarks: Khajeh *et al.* (2014a) had erroneously recorded from Guilan province with reference to Ghahari *et al.* (2011d).

***Synaldis ultima* Fischer, 1970**

General distribution: Palaearctic.

Distribution in Iran: Kerman (Ghotbi Ravandi *et al.* 2015).

**Tribe Dacnusiini Förster, 1862*****Aristelix persica* Peris-Felipo, 2015**

General distribution: Iran.

Distribution in Iran: Hormozgan (Peris-Felipo *et al.* 2015).

***Chorebus (Chorebus) affinis* (Nees, 1812)**

General distribution: Palaearctic.

Distribution in Iran: Mazandaran (Ghahari *et al.* 2010a, reported as *Chorebus longicornis* (Nees, 1811)), Fars (Lashkari Bod *et al.* 2010, 2011a), Khorasan Razavi (Ghahari *et al.* 2011d), Semnan (Samin 2015, reported as *C. longicornis*).

***Chorebus (Chorebus) axillaris* Fischer, Lashkari Bod, Rakhshani & Talebi, 2011**

General distribution: Iran.

Distribution in Iran: Fars (Fischer *et al.* 2011).

***Chorebus (Chorebus) gracilipes* (Thomson, 1895)**

General distribution: Palaearctic.

Distribution in Iran: Kordestan (Ghahari *et al.* 2010b), Fars (Samin *et al.* 2015b).

***Chorebus (Chorebus) groschkei* Griffiths, 1967**

General distribution: Palaearctic.

Distribution in Iran: Fars (Lashkari Bod *et al.* 2010, 2011a).

***Chorebus (Chorebus) longiarticulis* Fischer, Lashkari Bod, Rakhshani & Talebi, 2011**

General distribution: Iran.

Distribution in Iran: Fars (Fischer *et al.* 2011), Kerman (Ghotbi Ravandi *et al.* 2015).

Remarks: Ghotbi Ravandi *et al.* (2015) described the male of *C. longiarticulis*.

***Chorebus (Chorebus) mucronatus* (Telenga, 1935)**

General distribution: Palaearctic.

Distribution in Iran: Mazandaran (Ghahari *et al.* 2010b), Ilam (Ghahari *et al.* 2011a, reported as *Chorebus (Stiphrocera) mucronatus*), Eastern Iran (Yari *et al.* 2014), Golestan (Samin *et al.* 2015).

***Chorebus (Chorebus) nigridiremptus* Fischer, Lashkari Bod, Rakhshani & Talebi, 2011**

General distribution: Iran.

Distribution in Iran: Fars (Fischer *et al.* 2011).

***Chorebus (Chorebus) nigriscapopus* (Nixon, 1949)**

General distribution: Palaearctic.

Distribution in Iran: Eastern Iran (Yari *et al.* 2014).

***Chorebus (Chorebus) nixonii* Burghele, 1959**

General distribution: Palaearctic.

Distribution in Iran: East Azarbaijan (Ghahari and Fischer 2011a), Khuzestan (Samin *et al.* 2015b).

***Chorebus (Chorebus) parvungula* (Thomson, 1895)**

General distribution: Palaearctic.

Distribution in Iran: Eastern Iran (Yari *et al.* 2014), Kerman (Ghotbi Ravandi *et al.* 2015).

***Chorebus (Chorebus) properesam* Fischer, Lashkari Bod, Rakhshani & Talebi, 2011**

General distribution: Iran.

Distribution in Iran: Fars (Fischer *et al.* 2011).

***Chorebus (Chorebus) scabiosae* Griffiths, 1967**

General distribution: Palaearctic.

Distribution in Iran: Eastern Iran (Yari *et al.* 2014).

***Chorebus (Chorebus) stilifer* Griffiths, 1968**

General distribution: Germany and Iran.

Distribution in Iran: Fars (Lashkari Bod *et al.* 2010, 2011a; Fischer *et al.* 2011), Eastern Iran (Yari *et al.* 2014).

***Chorebus (Chorebus) solstitialis* (Stelfox, 1951)**

General distribution: Palaearctic.

Distribution in Iran: Eastern Iran (Yari *et al.* 2014).

***Chorebus (Chorebus) uliginosus* (Haliday, 1839)**

General distribution: Palaearctic.

Distribution in Iran: Mazandaran (Ghahari *et al.* 2010a), Kermanshah (Hazini *et al.* 2015, reported as *Chorebus (Stiphrocera)*

*uliginosus*), Kuhgiluyeh & Boyerahmad (Samin *et al.* 2015b).

Host: *Chromatomyia horticola* Goureau (Dip.: Agromyzidae) (Hazini *et al.* 2015).

***Chorebus (Chorebus) zarghanensis* Fischer, Lashkari Bod, Rakhshani & Talebi, 2011**

General distribution: Iran.

Distribution in Iran: Fars (Fischer *et al.* 2011).

***Chorebus (Phaenolexis) ares* (Nixon, 1944)**

General distribution: Palaearctic.

Distribution in Iran: Eastern Iran (Yari *et al.* 2014).

***Chorebus (Phaenolexis) bathyzonus* (Marshall, 1895)**

General distribution: Palaearctic.

Distribution in Iran: Sistan & Baluchestan (Sedighi *et al.* 2014), Kerman (Ghotbi Ravandi *et al.* 2015).

***Chorebus (Phaenolexis) compressiventris* (Telenga, 1935)**

General distribution: Palaearctic.

Distribution in Iran: Ardabil (Ghahari and Fischer 2011a), Zanjan (Samin 2015).

***Chorebus (Phaenolexis) femoratus* (Tobias, 1962)**

General distribution: Palaearctic.

Distribution in Iran: Ilam (Ghahari *et al.* 2011a).

***Chorebus (Phaenolexis) fuscipennis* (Nixon, 1937)**

General distribution: Palaearctic.

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c).

***Chorebus (Phaenolexis) gedanensis* (Ratzeburg, 1852)**

General distribution: Palaearctic.

Distribution in Iran: Khorasan Razavi (Samin *et al.* 2011), Qazvin (Samin 2015).

***Chorebus (Phaenolexis) heringiamus* Griffiths, 1967**

General distribution: Palaearctic.

Distribution in Iran: Golestan (Ghahari and Fischer 2011c).

***Chorebus (Phaenolexis) iridis* Griffiths, 1968**  
General distribution: Palaearctic.  
Distribution in Iran: Qazvin (Ghahari *et al.* 2011b).

***Chorebus (Phaenolexis) leptogaster* (Haliday, 1839)**  
General distribution: Palaearctic.  
Distribution in Iran: Golestan (Ghahari *et al.* 2011d), Eastern Iran (Yari *et al.* 2014).

***Chorebus (Phaenolexis) ornatus* (Telenga, 1935)**  
General distribution: Palaearctic.  
Distribution in Iran: Qazvin (Ghahari *et al.* 2011b).

***Chorebus (Phaenolexis) posticus* (Haliday, 1839)**  
General distribution: Palaearctic and Nearctic.  
Distribution in Iran: Hamadan (Ghahari *et al.* 2009d).

***Chorebus (Phaenolexis) tamsi* (Nixon, 1944)**  
General distribution: Palaearctic.  
Distribution in Iran: Fars (Lashkari Bod *et al.* 2010, 2011a; Fischer *et al.* 2011).

***Chorebus (Stiphrocera) aphantus* (Marshall, 1896)**  
General distribution: Palaearctic and Oriental.  
Distribution in Iran: Eastern Iran (Yari *et al.* 2014), Kermanshah (Hazini *et al.* 2015).  
Host: *Chromatomyia horticola* Goureau (Dip.: Agromyzidae) (Hazini *et al.* 2015).

***Chorebus (Stiphrocera) asphodeli* Griffiths, 1968**  
General distribution: Palaearctic.  
Distribution in Iran: Qazvin (Ghahari *et al.* 2011b), Ardabil (Rastegar *et al.* 2012).

***Chorebus (Stiphrocera) baeticus* Griffiths, 1967**  
General distribution: Palaearctic.  
Distribution in Iran: Golestan (Ghahari and Fischer 2011c).

***Chorebus (Stiphrocera) cubocephalus* (Telenga, 1935)**  
General distribution: Palaearctic.  
Distribution in Iran: Eastern Iran (Yari *et al.* 2014), Sistan & Baluchestan (Sedighi *et al.* 2014).

***Chorebus (Stiphrocera) diremtus* (Nees, 1834)**  
General distribution: Palaearctic.  
Distribution in Iran: East Azarbaijan (Ghahari and Fischer 2011a), Golestan (Samin *et al.* 2015).

***Chorebus (Stiphrocera) flavipes* (Goureau, 1851)**  
General distribution: Palaearctic.  
Distribution in Iran: Guilan (Ghahari and Fischer 2011b), Ardabil (Ghahari *et al.* 2011d), Kerman (Samin *et al.* 2011), Charmahal & Bakhtiari (Samin *et al.* 2015b).

***Chorebus (Stiphrocera) lar* (Morley, 1924)**  
General distribution: Palaearctic.  
Distribution in Iran: Isfahan (Ghahari *et al.* 2011c), Eastern Iran (Yari *et al.* 2014), Sistan & Baluchestan (Sedighi *et al.* 2014), Kerman (Ghotbi Ravandi *et al.* 2015).

***Chorebus (Stiphrocera) merellus* (Nixon, 1937)**  
General distribution: Palaearctic.  
Distribution in Iran: Eastern Iran (Yari *et al.* 2014).

***Chorebus (Stiphrocera) misellus* (Marshall, 1895)**  
General distribution: Palaearctic.  
Distribution in Iran: Semnan (Ghahari *et al.* 2010b), Kerman (Ghotbi Ravandi *et al.* 2015).

***Chorebus (Stiphrocera) pseudomisellus* Griffiths, 1968**  
General distribution: Palaearctic.  
Distribution in Iran: Golestan (Ghahari and Fischer 2011c).

***Chorebus (Stiphrocera) spenceri* Griffiths, 1964**  
General distribution: Palaearctic.  
Distribution in Iran: Eastern Iran (Yari *et al.* 2014).

***Chorebus (Stiphrocera) tumidus* (Tobias, 1966)**  
General distribution: Palaearctic.  
Distribution in Iran: Golestan (Samin *et al.* 2011; Samin *et al.* 2015, reported as *Chorebus (Chorebus) tumidus*).



***Chorebus (Stiphrocera) venustus (Tobias, 1962)***  
 General distribution: Palaearctic.  
 Distribution in Iran: Isfahan (Ghahari *et al.* 2011c).

***Coelinidea elegans (Curtis, 1829)***  
 General distribution: Palaearctic.  
 Distribution in Iran: West Azarbaijan (Gadallah *et al.* 2015a).

***Coelinidea gracilis (Curtis, 1829)***  
 General distribution: Palaearctic.  
 Distribution in Iran: Fars (Fischer *et al.* 2011; Lashkari Bod *et al.* 2010, 2011a, reported as *Lepton gracilis*), Ilam (Ghahari *et al.* 2011a), Eastern Iran (Yari *et al.* 2014).

***Coloneura dice (Nixon, 1943)***  
 General distribution: Palaearctic.  
 Distribution in Iran: Eastern Iran (Yari *et al.* 2014).

***Dacnusa (Aphanta) hospita (Förster, 1862)***  
 General distribution: Palaearctic.  
 Distribution in Iran: Fars (Fischer *et al.* 2011; Lashkari Bod *et al.* 2010, 2011a), Kermanshah (Hazini *et al.* 2015).  
 Host: *Chromatomyia horticola* Goureau (Dip.: Agromyzidae) (Hazini *et al.* 2015).

***Dacnusa (Aphanta) sasakawai Takada, 1977***  
 General distribution: Palaearctic.  
 Distribution in Iran: Eastern Iran (Yari *et al.* 2014, reported as *Dacnusa (Aphanta) distracta* Tobias, 1986).

***Dacnusa (Dacnusa) confinis Ruthe, 1859***  
 General distribution: Palaearctic.  
 Distribution in Iran: Qazvin (Ghahari *et al.* 2011b).

***Dacnusa (Dacnusa) gentianae Griffiths, 1967***  
 General distribution: Palaearctic.  
 Distribution in Iran: Isfahan (Ghahari *et al.* 2011c).

***Dacnusa (Dacnusa) pubescens (Curtis, 1826)***  
 General distribution: Palaearctic.  
 Distribution in Iran: West Azarbaijan (Samin *et al.* 2014).

***Dacnusa (Pachysema) abdita (Haliday, 1839)***  
 General distribution: Palaearctic.  
 Distribution in Iran: Kerman (Ghotbi Ravandi *et al.* 2015).

***Dacnusa (Pachysema) alpestris Griffiths, 1967***  
 General distribution: Palaearctic.  
 Distribution in Iran: Ilam (Ghahari *et al.* 2011a).

***Dacnusa (Pachysema) aterrima Thomson, 1895***  
 General distribution: Palaearctic.  
 Distribution in Iran: East Azarbaijan (Gadallah *et al.* 2015a).

***Dacnusa (Pachysema) clematidis Griffiths, 1967***  
 General distribution: Poland and Iran.  
 Distribution in Iran: Eastern Iran (Yari *et al.* 2014).

***Dacnusa (Pachysema) evadne Nixon, 1937***  
 General distribution: Palaearctic.  
 Distribution in Iran: Eastern Iran (Yari *et al.* 2014).

***Dacnusa (Pachysema) monticola (Forster, 1862)***  
 General distribution: Palaearctic.  
 Distribution in Iran: Eastern Iran (Yari *et al.* 2014).

***Dacnusa (Pachysema) sibirica Telenga, 1935***  
 General distribution: Palaearctic and Oriental.  
 Distribution in Iran: Ardabil (Fathi 2011), Sistan & Baluchestan (Sedighi *et al.* 2014).  
 Host: *Chromatomyia horticola* Goureau (Dip.: Agromyzidae) (Fathi 2011).

***Protodacnusa aridula (Thomson, 1895)***  
 General distribution: Palaearctic.  
 Distribution in Iran: Fars (Ghahari *et al.* 2010b).

***Protodacnusa litoralis Griffiths, 1964***  
 General distribution: Palaearctic.  
 Distribution in Iran: Qazvin (Ghahari *et al.* 2011b).

**Subfamily Aphidiinae Haliday, 1833****Tribe Aphidiini Haliday, 1833*****Adialytus ambiguus* (Haliday, 1834)**

General distribution: Palaearctic, Nearctic and Oriental.

Distribution in Iran: East Azarbaijan (Starý 1979; Starý *et al.* 2000), Fars (Rakhshani *et al.* 2008b, 2012a; Taheri and Rakhshani 2013; Barahoei *et al.* 2013), Isfahan, Kerman (Rakhshani *et al.* 2012a; Barahoei *et al.* 2013), Kermanshah (Rakhshani *et al.* 2012a; Nazari *et al.* 2012), Kordestan (Nazari *et al.* 2012), North Khorasan (Rakhshani *et al.* 2012a; Rakhshani *et al.* 2012b), Khorasan Razavi (Rakhshani *et al.* 2012a).

Hosts: *Sipha elegans* del Guercio (Rakhshani *et al.* 2008b, 2012a; Taheri and Rakhshani 2013; Barahoei *et al.* 2013), *Sipha flava* (Forbes) (Nazari *et al.* 2012; Rakhshani *et al.* 2012a), *Sipha maydis* Passerini (Starý *et al.* 2000; Nazari *et al.* 2012; Rakhshani *et al.* 2012a, 2012b; Barahoei *et al.* 2013) and *Sipha* sp. (Hem.: Aphididae) (Starý 1979).

***Adialytus salicaphis* (Fitch, 1855)**

General distribution: Palaearctic, Nearctic, Neotropical and Oriental.

Distribution in Iran: Alborz (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2007b, 2012a), Fars (Rakhshani *et al.* 2007b, 2012a, Taheri and Rakhshani 2013; Barahoei *et al.* 2013, reported as *C. salijaponicus* ssp. *niger*), Guilan (Starý 1979; Yaghubi 1997; Rakhshani *et al.* 2007b; Talebi *et al.* 2009), Markazi (Rakhshani *et al.* 2007b, 2012a; Talebi *et al.* 2009; Barahoei *et al.* 2013), Isfahan (Rakhshani *et al.* 2007b; Barahoei *et al.* 2013, on *Chaitophorus* sp.), Mazandaran, Zanzan (Rakhshani *et al.* 2007b), Kerman (Barahoei *et al.* 2012; Barahoei *et al.* 2013; Rakhshani *et al.* 2012a), Kermanshah (Nazari *et al.* 2012), North Khorasan (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2012a, 2012b), Kordestan (Rakhshani *et al.* 2007b, 2012a; Talebi *et al.* 2009; Nazari *et al.* 2012), Qazvin (Rakhshani *et al.* 2007b; Talebi *et al.* 2009), Sistan & Baluchestan,

Tehran (Rakhshani *et al.* 2007b, 2012a; Talebi *et al.* 2009).

Hosts: *Chaitophorus euphraticus* Hodjat (Starý *et al.* 2000; Rakhshani *et al.* 2007b, 2012a; Talebi *et al.* 2009), *Chaitophorus leucomelas* Koch (Rakhshani *et al.* 2007b, 2012a; Taheri and Rakhshani 2013; Barahoei *et al.* 2013), *Chaitophorus populeti* (Panzer) (Rakhshani *et al.* 2007b, 2012a), *Chaitophorus populialbae* (Boyer de Fonscolombe) (Yaghubi 1997; Starý *et al.* 2000; Rakhshani *et al.* 2007b, 2012a; Barahoei *et al.* 2013), *Chaitophorus remaudierei* Pintera (Starý *et al.* 2000; Rakhshani *et al.* 2007b, 2012a; Talebi *et al.* 2009; Nazari *et al.* 2012), *Chaitophorus salijaponicus* Essig and Kuwana (Starý *et al.* 2000; Rakhshani *et al.* 2007b, 2012a, 2012b; Taheri and Rakhshani 2013; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Chaitophorus truncatus* (Hausmann) (Rakhshani *et al.* 2007b; Talebi *et al.* 2009), *Chaitophorus vitellinae* (Schrank) (Rakhshani *et al.* 2007b, 2012a; Talebi *et al.* 2009; Barahoei *et al.* 2013) and *Chaitophorus* sp. (Hem.: Aphididae) (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2012a, 2012b; Barahoei *et al.* 2012, 2013).

***Adialytus thelaxis* (Starý, 1961)**

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Starý 1979; Starý *et al.* 2000; Nazari *et al.* 2012), Golestan (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2012a), Mazandaran (Starý 1979; Babaei *et al.* 2000; Starý *et al.* 2000), Guilan (Rakhshani *et al.* 2012a).

Host: *Thelaxes suberi* (del Guercio, 1911) (Hem.: Aphididae) (Starý 1979; Babaei *et al.* 2000; Starý *et al.* 2000; Nazari *et al.* 2012; Rakhshani *et al.* 2012a).

***Adialytus veronicaecola* (Starý, 1978)**

General distribution: Kazakhstan and Iran.

Distribution in Iran: Isfahan (Rakhshani *et al.* 2012a).

Hosts: *Aphis craccivora* Koch, *Aphis gossypii* Glover, *Aphis* sp. (Hem.: Aphididae) (Rakhshani *et al.* 2012a).

***Aphidius absinthii* Marshall, 1896**

General distribution: Palaearctic, Nearctic and Oriental.

Distribution in Iran: Guilan (Yaghubi 1997; Starý *et al.* 2000; Rakhshani *et al.* 2008a; Talebi *et al.* 2009), Kohgiluyeh & Boyerahmad (Starý 1979; Starý *et al.* 2000), Mazandaran (Starý 1979; Starý *et al.* 2000), Tehran (Starý *et al.* 2000), North Khorasan (Rakhshani *et al.* 2012b).

Hosts: *Macrosiphoniella abrotani* (Walker, 1852) (Starý *et al.* 2000; Rakhshani *et al.* 2008a, 2011; Talebi *et al.* 2009), *Macrosiphoniella artemisiae* (Boyer de Fonscolombe, 1841) (Rakhshani *et al.* 2008a, 2011; Talebi *et al.* 2009), *Macrosiphoniella helichrysi* Remaudiere, 1852 (Starý *et al.* 2000; Rakhshani *et al.* 2011), *Macrosiphoniella near macrura* Hille Ris Lambers, 1948 (Rakhshani *et al.* 2011), *Macrosiphoniella oblonga* (Mordvilko, 1901) (Yaghubi 1997; Starý *et al.* 2000; Rakhshani *et al.* 2008a, 2011; Talebi *et al.* 2009), *Macrosiphoniella pulvera* (Walker, 1848) (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2011), *Macrosiphoniella riedeli* Szelegiewics, 1963 (Rakhshani *et al.* 2011), *Macrosiphoniella tuberculata* (Nevsky, 1928) (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2011), *Macrosiphoniella* sp. (Hem.: Aphididae) (Starý *et al.* 2000; Rakhshani *et al.* 2011).

Remarks: *Aphidius asteris* has been synonymized with *Aphidius absinthii* (Yu *et al.* 2012). Recent evidences from Southeastern Europe have also confirmed the validity of both species (Kavallieratos *et al.* 2013; Barahoei *et al.* 2014).

***Aphidius arvensis* (Starý, 1960)**

General distribution: Palaearctic.

Distribution in Iran: Tehran (Starý 1979; Starý *et al.* 2000), Hamadan (Talebi *et al.* 2009; Nazari *et al.* 2012), Kordestan (Nazari *et al.* 2012), Fars (Taheri and Rakhshani 2013; Barahoei *et al.* 2013).

Hosts: *Coloradoa achilleae* Hille Ris Lambers (Hem.: Aphididae) (Starý 1979; Starý *et al.* 2000; Talebi *et al.* 2009; Nazari *et al.* 2012;

Taheri and Rakhshani 2013; Barahoei *et al.* 2013).

***Aphidius asteris* Haliday, 1834**

Distribution and hosts were recorded as *Aphidius absinthii* Marshall, 1896 (Starý 1979; Starý *et al.* 2000; Talebi *et al.* 2009; Nazari *et al.* 2012; Taheri and Rakhshani 2013; Barahoei *et al.* 2013), but after re-validation (Kavallieratos *et al.* 2013) it has only been found in North of Iran.

***Aphidius avenae* Haliday, 1834**

General distribution: Palaearctic, Nearctic and Oriental.

Distribution in Iran: Fars (Taheri and Rakhshani 2013).

Host: *Rhopalosiphum maidis* (Fitch) (Hem.: Aphididae) (Taheri and Rakhshani 2013).

***Aphidius eadyi* Starý, González & Hall, 1980**

General distribution: Palaearctic and Oceanic.

Distribution in Iran: Alborz (Gonzalez *et al.* 1978; Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2006a; Rakhshani *et al.* 2008a), Ardabil (Gonzalez *et al.* 1978; Starý 1979; Starý *et al.* 2000), Hamadan (Rakhshani *et al.* 2006a, 2008a; Nazari *et al.* 2012), Isfahan (Rakhshani *et al.* 2006a; Rakhshani *et al.* 2008a; Barahoei *et al.* 2013), Kermanshah (Rakhshani *et al.* 2006a; Nazari *et al.* 2012), Kordestan, Qazvin, Sistan & Baluchestan, Zanzan (Rakhshani *et al.* 2006a), Markazi (Rakhshani *et al.* 2006a; Rakhshani *et al.* 2008a), Tehran (Rakhshani *et al.* 2008a).

Host: *Acyrtosiphon pisum* (Harris) (Hem.: Aphididae) (Gonzalez *et al.* 1978; Starý 1979; Starý *et al.* 1980, 2000; Rakhshani *et al.* 2006a, 2008a; Nazari *et al.* 2012; Barahoei *et al.* 2013).

***Aphidius ervi* Haliday, 1834**

General distribution: Afrotropical, Australasian, Palaearctic, Nearctic, Neotropical, Oceanic and Oriental.

Distribution in Iran: Alborz (Gonzalez *et al.* 1978; Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2006a; Rakhshani *et al.* 2008a), Kerman (Gonzalez *et al.* 1978; Starý

*et al.* 2000; Barahoei *et al.* 2013), Tehran (Monajemi and Esmaili 1981; Rasulian 1985, 1989; Starý *et al.* 2000; Rakhshani *et al.* 2006a; Rakhshani *et al.* 2008a; Talebi *et al.* 2009), Golestan (Darvish-Mojeni and Bayat-Asadi 1995; Starý *et al.* 2000; Rakhshani *et al.* 2008a, 2008b), Zanjan, Qazvin (Rakhshani *et al.* 2006a), Hamadan (Rakhshani *et al.* 2006a; Rakhshani *et al.* 2008a; Nazari *et al.* 2012), Isfahan (Rakhshani *et al.* 2006a; Rakhshani *et al.* 2008a; Barahoei *et al.* 2013), Markazi (Rakhshani *et al.* 2008b), Guilan (Rakhshani *et al.* 2008a; Talebi *et al.* 2009), Kordestan (Rakhshani *et al.* 2006a; Rakhshani *et al.* 2008a; Nazari *et al.* 2012), Fars (Rakhshani *et al.* 2008a, 2008b; Taheri and Rakhshani 2013; Barahoei *et al.* 2013), Kermanshah (Rakhshani *et al.* 2006a; Nazari *et al.* 2012), North Khorasan (Rakhshani *et al.* 2012b).

Hosts: *Acyrtosiphon gossypii* Mordvilko (Barahoei *et al.* 2013), *Acyrtosiphon kondoi* Shinji (Gonzalez *et al.* 1978; Starý *et al.* 2000; Rakhshani *et al.* 2006a, 2008a, 2008b; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Acyrtosiphon pisum* (Harris) (Starý and Gonzalez 1978; Gonzalez *et al.* 1978; Monajemi and Esmaili 1981; Rasulian 1985, 1989; Starý *et al.* 2000; Rakhshani *et al.* 2006a, 2008a, 2012b; Talebi *et al.* 2009; Taheri and Rakhshani 2013; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Macrosiphum euphorbiae* (Thomas) (Rakhshani *et al.* 2008a), *Microlophium carnosum* (Buckton) (Rakhshani *et al.* 2008a; Talebi *et al.* 2009), *Myzus persicae* (Sulzer) (Rakhshani *et al.* 2008a; Barahoei *et al.* 2013), *Rhopalosiphum padi* (L.) (Taheri and Rakhshani 2013), *Sitobion avenae* (F.) (Darvish-Mojeni and Bayat-Asadi 1995; Rakhshani *et al.* 2008a; Barahoei *et al.* 2013), *Wahlgreniella nervata* (Gillette) (Hem.: Aphididae) (Barahoei *et al.* 2013).

#### ***Aphidius funebris* Mackauer, 1961**

General distribution: Palaearctic, Oceanic and Oriental.

Distribution in Iran: Tehran (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2008a),

Qazvin (Rakhshani *et al.* 2008a), Guilan (Rakhshani *et al.* 2008a; Talebi *et al.* 2009), Isfahan (Rakhshani *et al.* 2008a; Talebi *et al.* 2009; Barahoei *et al.* 2013), Kermanshah (Nazari *et al.* 2012), Kerman (Barahoei *et al.* 2012; Barahoei *et al.* 2013), Fars (Taheri and Rakhshani 2013; Barahoei *et al.* 2013).

Hosts: *Uroleucon acroptilidis* Kadyrbekov, Renxin and Shao (Barahoei *et al.* 2013), *Uroleucon chondrillae* (Nevsky) (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2008a), *Uroleucon cichorii* (Koch) (Rakhshani *et al.* 2008a), *Uroleucon compositae* (Theobald) (Rakhshani *et al.* 2008a; Talebi *et al.* 2009; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Uroleucon erigeronense* (Thomas) (Rakhshani *et al.* 2008a; Talebi *et al.* 2009), *Uroleucon jaceae* (L.) (Rakhshani *et al.* 2008a; Talebi *et al.* 2009; Taheri and Rakhshani 2013; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Uroleucon sonchi* (L.) (Rakhshani *et al.* 2008a; Taheri and Rakhshani 2013; Barahoei *et al.* 2013), *Uroleucon* sp. (Hem.: Aphididae) (Barahoei *et al.* 2012, 2013).

#### ***Aphidius hieraciorum* Starý, 1962**

General distribution: Palaearctic.

Distribution in Iran: Khuzestan (Mossadegh *et al.* 2011; Nazari *et al.* 2012).

Hosts: *Nasonovia ribisnigri* (Mosley) (Nazari *et al.* 2012), *Nasonovia* sp. (Hem.: Aphididae) (Mossadegh *et al.* 2011).

#### ***Aphidius iranicus* Rakhshani & Starý, 2007**

General distribution: Iran.

Distribution in Iran: Guilan (Tomanović *et al.* 2007; Talebi *et al.* 2009).

Host: *Titanosiphon bellicosum* Nevesky (Hem.: Aphididae) (Tomanović *et al.* 2007; Talebi *et al.* 2009).

#### ***Aphidius matricariae* Haliday, 1834**

General distribution: Afrotropical, Palaearctic, Nearctic, Neotropical, Oceanic and Oriental.

Distribution in Iran: East Azarbaijan (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2008a; Talebi *et al.* 2009), Alborz (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2008a; Talebi *et al.* 2009; Rakhshani 2012),

Tehran (Starý 1979; Starý et al. 2000; Rakhshani et al. 2008a, 2008b; Talebi et al. 2009; Rakhshani 2012), Sistan & Baluchestan (Bandani 1992; Starý et al. 2000; Rakhshani et al. 2008a, 2008b; Talebi et al. 2009), Fars (Gonzalez et al. 1992; Starý et al. 2000; Rakhshani et al. 2008a; Talebi et al. 2009; Rakhshani 2012; Taheri and Rakhshani 2013; Barahoei et al. 2013), Mazandaran (Starý et al. 2000), Guilan (Mokhtari et al. 2000; Starý et al. 2000; Talebi et al. 2009), Khuzestan (Rakhshani et al. 2008a, 2008b; Talebi et al. 2009; Mossadegh et al. 2011), Hamadan (Rakhshani et al. 2008a, 2008b; Nazari et al. 2012), Isfahan (Rakhshani et al. 2008a; Talebi et al. 2009; Barahoei et al. 2013), Markazi (Rakhshani et al. 2008b; Barahoei et al. 2013), Qom (Rakhshani et al. 2008a, 2008b; Barahoei et al. 2013), Kermanshah (Rakhshani et al. 2008b; Nazari et al. 2012; Rakhshani 2012), Khorasan Razavi (Jafari-Ahmadabadi et al. 2011; Jafari-Ahmadabadi and Modarres 2012; Rakhshani 2012), North Khorasan (Rakhshani et al. 2012b), Golestan, Kordestan (Rakhshani 2012), Kerman (Barahoei et al. 2012, 2013), Kohgiluyeh & Boyerahmad (Barahoei et al. 2013).

Hosts: *Amegosiphon platycaudum* (Narzikulov) (Nazari et al. 2012), *Aphis affinis* del Guercio (Rakhshani et al. 2012b; Nazari et al. 2012; Barahoei et al. 2013), *Aphis craccivora* Koch (Rakhshani et al. 2008a; Talebi et al. 2009; Mossadegh et al. 2011; Taheri and Rakhshani 2013; Nazari et al. 2012; Barahoei et al. 2013), *Aphis crepidis* (Börner) (Starý et al. 2000), *Aphis dlabolai* Holman (Barahoei et al. 2013), *Aphis euphorbiae* Kaltenbach (Rakhshani et al. 2008a; Talebi et al. 2009; Mossadegh et al. 2011; Barahoei et al. 2013), *Aphis fabae* Scopoli (Rakhshani et al. 2008a; Talebi et al. 2009; Mossadegh et al. 2011; Taheri and Rakhshani 2013; Nazari et al. 2012; Barahoei et al. 2013), *Aphis gossypii* Glover (Starý, 1979; Starý et al. 2000; Rakhshani et al. 2008a; Talebi et al. 2009; Mossadegh et al. 2011; Nazari et al. 2012;

Barahoei et al. 2013), *Aphis intybi* Koch (Taheri and Rakhshani 2013; Barahoei et al. 2013), *Aphis nasturtii* Kaltenbach (Nazari et al. 2012), *Aphis plantaginis* Goeze (Barahoei et al. 2013), *Aphis pomi* DeGeer (Rakhshani et al. 2008a; Rakhshani 2012; Barahoei et al. 2013), *Aphis punicae* Passerini (Nazari et al. 2012; Barahoei et al. 2013), *Aphis solanella* Theobald (Barahoei et al. 2013), *Aphis spiraeicola* Patch (Rakhshani 2012), *Aphis umbrella* Börner (Schlinger and Mackauer 1963; Starý et al. 2000; Rakhshani et al. 2008a; Talebi et al. 2009; Nazari et al. 2012), *Brachycaudus amygdalinus* (Schouteden) (Rakhshani 2012; Nazari et al. 2012), *Brachycaudus cardui* (L.) (Rakhshani et al. 2008a; Rakhshani 2012), *Brachycaudus divaricatae* Shaposhnikov (Jafari-Ahmadabadi et al. 2011; Jafari-Ahmadabadi and Modarres 2012), *Brachycaudus helichrysi* (Kaltenbach) (Mokhtari et al. 2000; Starý et al. 2000; Rakhshani et al. 2008a, 2012b; Talebi et al. 2009; Mossadegh et al. 2011; Rakhshani, 2012; Jafari-Ahmadabadi et al. 2011; Jafari-Ahmadabadi and Modarres 2012; Nazari et al. 2012; Barahoei et al. 2013), *Brachycaudus persicae* (Passerini) (Rakhshani, 2012), *Brachycaudus tragopogonis* (Kaltenbach) (Barahoei et al. 2013), *Capitophorus similis* van der Goot (Rakhshani et al. 2008a; Talebi et al. 2009), *Diuraphis noxia* (Kurdjumov) (Bandani 1992; Gonzalez et al. 1992; Zareh et al. 1995; Starý et al. 2000), *Dysaphis devecta* (Walker) (Starý et al. 2000), *Dysaphis plantaginea* (Passerini) (Radjabi 1989; Starý et al. 2000; Mossadegh et al. 2011; Rakhshani 2012), *Dysaphis pyri* (Boyer de Fonscolombe) (Radjabi 1989; Starý et al. 2000), *Eucarazzia elegans* (Ferrari) (Rakhshani et al. 2008a; Talebi et al. 2009; Barahoei et al. 2013), *Hyalopterus amygdali* (Blanchard) (Jafari-Ahmadabadi et al. 2011; Jafari-Ahmadabadi and Modarres 2012; Nazari et al. 2012), *Hyalopterus pruni* (Geoffroy) (Mokhtari et al. 2000; Starý et al. 2000), *Hyperomyzus lactucae* (L.) (Mossadegh et al. 2011), *Lipaphis erysmi*

(Kaltenbach) (Mossadegh *et al.* 2011), *Lipaphis lepidii* Nevsky (Starý 1979; Starý *et al.* 2000; Mossadegh *et al.* 2011), *Lipaphis pseudobrassicae* (Davis) (Barahoei *et al.* 2013), *Metopolophium dirhodum* (Walker) (Bandani 1992; Starý *et al.* 2000; Rakhshani *et al.* 2008a, b; Taheri and Rakhshani 2013; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Myzus ascalonicus* Doncaster (Barahoei *et al.* 2013), *Myzus beybienkoi* (Narzykulov) (Starý *et al.* 2000), *Myzus cerasi* (F.) (Mokhtari *et al.* 2000; Starý *et al.* 2000; Rakhshani *et al.* 2008a; Rakhshani 2012), *Myzus certus* (Walker) (Barahoei *et al.* 2013), *Myzus ornatus* Laing (Starý *et al.* 2000), *Myzus persicae* (Sulzer) (Schlinger and Mackauer 1963; Starý 1979; Radjabi 1989; Starý *et al.* 2000; Rakhshani *et al.* 2008a; Talebi *et al.* 2009; Mossadegh *et al.* 2011; Jafari-Ahmadabadi *et al.* 2011; Jafari-Ahmadabadi and Modarres 2012; Rakhshani 2012; Nazari *et al.* 2012; Taheri and Rakhshani 2013; Barahoei *et al.* 2012, 2013), *Ovatus insitus* (Walker) (Rakhshani *et al.* 2008a; Rakhshani 2012), *Phorodon humuli* (Schrank) (Schlinger and Mackauer 1963; Bandani 1992; Starý *et al.* 2000), *Rhopalomyzus* sp. (Starý 1979), *Rhopalosiphum maidis* (Fitch) (Bandani 1992; Starý *et al.* 2000; Nazari *et al.* 2012; Barahoei *et al.* 2012, 2013), *Rhopalosiphum nymphaeae* (L.) (Mokhtari *et al.* 2000; Starý *et al.* 2000), *Rhopalosiphum padi* (L.) (Bandani 1992; Starý *et al.* 2000; Rakhshani *et al.* 2008a, 2008b; Mossadegh *et al.* 2011; Rakhshani 2012; Taheri and Rakhshani 2013; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Schizaphis graminum* (Rondani) (Bandani 1992; Starý *et al.* 2000; Rakhshani *et al.* 2008a, 2008b; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Sitobion avenae* (F.) (Bandani 1992; Starý *et al.* 2000; Rakhshani *et al.* 2008a, 2008b; Mossadegh *et al.* 2011; Barahoei *et al.* 2013), *Sitobion fragariae* (Walker) (Barahoei *et al.* 2013), *Wahlgreniella nervata* (Gillette) (Hem.: Aphididae) (Barahoei *et al.* 2013).

#### ***Aphidius persicus* Rakhshani & Starý, 2006**

General distribution: Iran and Iraq.

Distribution in Iran: Tehran, Zanjan (Rakhshani *et al.* 2006b, 2008a), Hamadan (Rakhshani *et al.* 2006b, 2008a; Nazari *et al.* 2012), Alborz (Rakhshani *et al.* 2008a), Khuzestan (Mossadegh *et al.* 2011), North Khorasan (Rakhshani *et al.* 2012b), Kerman (Barahoei *et al.* 2012, 2013), Fars (Taheri and Rakhshani 2013; Barahoei *et al.* 2013), Isfahan (Barahoei *et al.* 2013).

Hosts: *Macrosiphoniella* sp., *Uroleucon bielawskii* (Szelegiewicz), *Uroleucon carthami* Hille Ris Lambers (Barahoei *et al.* 2013), *Uroleucon chondrillae* (Nevsky) (Rakhshani *et al.* 2008a; Taheri and Rakhshani 2013; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Uroleucon compositae* (Theobald), *Uroleucon ochropus* (Hille Ris Lambers) (Barahoei *et al.* 2013), *Uroleucon sonchi* (L.) (Rakhshani *et al.* 2008a; Mossadegh *et al.* 2011; Barahoei *et al.* 2012, 2013), *Uroleucon* sp. (Hem.: Aphididae) (Rakhshani *et al.* 2012b; Barahoei *et al.* 2012, 2013).

#### ***Aphidius platensis* Brethes, 1913**

General distribution: Afrotropical, Australasian, Palaearctic, Neotropical and Oriental.

Distribution in Iran: Qazvin (Starý 1979), Sistan & Baluchestan (Bandani 1992; Starý *et al.* 2000; Rakhshani *et al.* 2005a, 2006a; Rakhshani *et al.* 2008a, 2008b; Talebi *et al.* 2009), Fars (Starý *et al.* 2000; Rakhshani *et al.* 2008a; Rakhshani 2012; Taheri and Rakhshani 2013; Barahoei *et al.* 2013), Tehran (Rakhshani *et al.* 2005a; Rakhshani *et al.* 2008a, 2008b; Talebi *et al.* 2009; Rakhshani 2012), Alborz (Rakhshani *et al.* 2006a; Rakhshani *et al.* 2008a; Talebi *et al.* 2009), Golestan (Rakhshani *et al.* 2008b), Qom (Rakhshani *et al.* 2008b), Kermanshah (Rakhshani *et al.* 2008b; Nazari *et al.* 2012), Kordestan (Rakhshani *et al.* 2008a, 2008b; Nazari *et al.* 2012), Isfahan (Rakhshani *et al.* 2008a, 2008b; Talebi *et al.* 2009), North Khorasan (Rakhshani *et al.* 2008b, 2012b), Khorasan Razavi (Rakhshani *et al.* 2008a),

Khuzestan (Talebi et al. 2009; Mossadegh et al. 2011; Nazari et al. 2012), Ilam (Rakhshani 2012), Kohgiluyeh & Boyer-Ahmad (Barahoei et al. 2013).

Hosts: *Amegosiphon platicaudum* (Narzikulov) (Nazari et al. 2012), *Aphis craccivora* Koch (Rakhshani et al. 2005a, 2006a, 2008a; Talebi et al. 2009; Taheri and Rakhshani 2013; Barahoei et al. 2013), *Aphis fabae* Scopoli (Rakhshani et al. 2008a, 2012b; Talebi et al. 2009; Taheri and Rakhshani 2013; Barahoei et al. 2013), *Aphis gossypii* Glover (Rakhshani et al. 2008a; Talebi et al. 2009; Nazari et al. 2012), *Aphis intybi* Koch and *Aphis nerii* Boyer de Fonscolombe (Rakhshani et al. 2008a; Talebi et al. 2009; Taheri and Rakhshani 2013; Barahoei et al. 2013), *Aphis punicae* Passerini (Rakhshani et al. 2008a, 2012b; Taheri and Rakhshani 2013; Barahoei et al. 2013), *Aphis rumicis* L. (Rakhshani et al. 2012b), *Aphis umbrella* Börner (Rakhshani et al. 2008a; Talebi et al. 2009; Nazari et al. 2012), *Brachycaudus amygdalinus* (Schouteden) (Rakhshani, 2012; Barahoei et al. 2013), *Brachycaudus cardui* (L.) (Rakhshani et al. 2008a; Talebi et al. 2009; Taheri and Rakhshani 2013; Barahoei et al. 2013), *Brachycaudus helichrysi* (Kaltenbach) (Rakhshani et al. 2008a; Talebi et al. 2009), *Capitophorus elaeagni* (Del Guercio) (Rakhshani et al. 2008a; Talebi et al. 2009), *Diuraphis noxia* (Kurdjumov) (Bandani 1992; Starý et al. 2000), *Hayhurstia atriplicis* (L.) (Rakhshani et al. 2012b), *Hyalopterus amygdali* (Blanchard) (Taheri and Rakhshani 2013), *Hyalopterus pruni* (Geoffroy) (Mokhtari et al. 2000; Starý et al. 2000; Rakhshani et al. 2008a, 2012b; Jafari-Ahmadabadi et al. 2011; Jafari-Ahmadabadi and Modarres 2012; Rakhshani 2012; Nazari et al. 2012; Tomanović et al. 2012; Taheri and Rakhshani 2013; Barahoei et al. 2013), *Macrosiphum euphorbiae* (Thomas) (Taheri and Rakhshani 2013; Barahoei et al. 2013), *Macrosiphum rosae* (L.) (Taheri and Rakhshani 2013), *Melanaphis donacis* (Passerini) (Tomanović et al. 2012; Barahoei

et al. 2014), *Myzus persicae* (Sulzer) (Rakhshani et al. 2008a; Talebi et al. 2009; Mossadegh et al. 2011; Rakhshani 2012; Taheri and Rakhshani 2013; Barahoei et al. 2013), *Phorodon humuli* (Schrank) (Rakhshani et al. 2008a; Rakhshani 2012), *Rhopalosiphum padi* (L.) (Rakhshani et al. 2008a, 2008b; Nazari et al. 2012; Barahoei et al. 2013), *Schizaphis graminum* (Rondani) (Bandani 1992; Starý et al. 2000; Rakhshani et al. 2008a, 2008b; Barahoei et al. 2013), *Sitobion avenae* (F.) (Hem.: Aphididae) (Bandani 1992; Starý et al. 2000; Rakhshani et al. 2008a, 2008b; Barahoei et al. 2013).

Remarks: *Aphidius platensis* has been reported as *Aphidius colemani* Viereck, 1912. But based on molecular and morphological studies, this species separated from *Aphidius colemani* (Tomanović et al. 2014).

#### ***Aphidius popovi* Starý, 1978**

General distribution: Iran and Uzbekistan.

Distribution in Iran: Alborz, Tehran (Rakhshani et al. 2008a; Talebi et al. 2009), Kermanshah (Nazari et al. 2012), North Khorasan (Rakhshani et al. 2012b), Kerman (Barahoei et al. 2012, 2013).

Hosts: *Amphorophora catharinae* (Nevsky) (Rakhshani et al. 2008a, 2012b; Talebi et al. 2009; Nazari et al. 2012; Barahoei et al. 2013), *Metopolophium dirhodum* (Walker) (Hem.: Aphididae) (Barahoei et al. 2012, 2013).

Remarks: Association of *Aphidius popovi* with *Metopolophium dirhodum* seems suspicious and need confirmation.

#### ***Aphidius rhopalosiphii* de Stefani-Perez, 1902**

General distribution: Palaearctic, Nearctic, Neotropical, Oceanic and Oriental.

Distribution in Iran: Golestan (Starý et al. 2000; Rakhshani et al. 2008b), Fars (Starý et al. 2000; Rakhshani et al. 2008a, 2008b; Taheri and Rakhshani 2013; Barahoei et al. 2013), Sistan & Baluchestan (Rakhshani et al. 2008a), Tehran (Rakhshani et al. 2008a, 2008b), Khorasan Razavi, Kordestan (Rakhshani et al. 2008a), Hamadan,

Kermanshah (Rakhshani *et al.* 2008a, 2008b; Nazari *et al.* 2012), Khuzestan (Rakhshani *et al.* 2008a, 2008b; Mossadegh *et al.* 2011), Isfahan, Markazi, Qom (Rakhshani *et al.* 2008a, 2008b; Barahoei *et al.* 2013).

Hosts: *Diuraphis noxia* (Kurdjumov) (Starý *et al.* 2000), *Metopolophium dirhodum* (Walker) (Rakhshani *et al.* 2008a, b; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Rhopalosiphum maidis* (Fitch) (Nazari *et al.* 2012), *Rhopalosiphum padi* (L.) (Starý *et al.* 2000; Rakhshani *et al.* 2008a, b; Nazari *et al.* 2012; Taheri and Rakhshani 2013; Barahoei *et al.* 2013), *Schizaphis graminum* (Rondani) (Rakhshani *et al.* 2008a, 2008b; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Sitobion avenae* (F.) (Hem.: Aphididae) (Darvish-Mojeni 1994; Starý *et al.* 2000; Rakhshani *et al.* 2008a, 2008b; Mossadegh *et al.* 2011; Nazari *et al.* 2012; Barahoei *et al.* 2013).

#### ***Aphidius rosae* Haliday, 1833**

General distribution: Palaearctic, Nearctic, Neotropical, Oceanic and Oriental.

Distribution in Iran: Isfahan (Mehrparvar *et al.* 2005; Rakhshani *et al.* 2008a; Talebi *et al.* 2009; Barahoei *et al.* 2013), Alborz (Rakhshani *et al.* 2008a), Tehran (Rakhshani *et al.* 2008a; Talebi *et al.* 2009), Hamadan (Talebi *et al.* 2009; Nazari *et al.* 2012), Khuzestan (Mossadegh *et al.* 2011), Kerman (Barahoei *et al.* 2013).

Host: *Macrosiphum rosae* (L.) (Hem.: Aphididae) (Mehrparvar *et al.* 2005; Rakhshani *et al.* 2008a; Talebi *et al.* 2009; Mossadegh *et al.* 2011; Nazari *et al.* 2012; Barahoei *et al.* 2013).

#### ***Aphidius salicis* Haliday, 1834**

General distribution: Australasian, Palaearctic, Nearctic, Neotropical, Oceanic and Oriental.

Distribution in Iran: Alborz (Starý 1979; Starý *et al.* 2000), Tehran (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2007b, 2008a; Talebi *et al.* 2009), Fars (Taheri and Rakhshani 2013; Barahoei *et al.* 2013), Kohgiluyeh & Boyerahmad (Barahoei *et al.* 2013).

Hosts: *Cavariella aegopodii* (Scopoli) (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2007b, 2008a; Talebi *et al.* 2009; Taheri and Rakhshani 2013; Barahoei *et al.* 2013), *Cavariella aquatica* (Gillette and Bragg) (Starý 1979; Starý *et al.* 2000), *Cavariella aspidaphoides* Hille Ris Lambers (Starý 1979; Starý *et al.* 2000), *Cavariella theobaldi* (Gillette and Bragg) (Starý 1979; Starý *et al.* 2000), *Hyadaphis foeniculi* (Passerini) (Hem.: Aphididae) (Talebi *et al.* 2009).

#### ***Aphidius smithi* Sharma & Subba Rao, 1959**

General distribution: Australasian, Palaearctic, Nearctic, Neotropical, Oceanic and Oriental.

Distribution in Iran: Alborz (Gonzalez *et al.* 1978; Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2006a; Rakhshani *et al.* 2008a), Fars (Rakhshani *et al.* 2008a), Guilan (Yaghubi 1997; Starý *et al.* 2000; Rakhshani *et al.* 2008a), Sistan & Baluchestan (Rakhshani *et al.* 2006a; Rakhshani *et al.* 2008a), Hamadan, Kermanshah, Kordestan (Rakhshani *et al.* 2006a; Rakhshani *et al.* 2008a; Nazari *et al.* 2012), Isfahan (Rakhshani *et al.* 2006a, 2008a; Barahoei *et al.* 2013), Kerman (Barahoei *et al.* 2012), North Khorasan (Rakhshani *et al.* 2012b).

Hosts: *Acyrtosiphon kondoi* Shinji (Gonzalez *et al.* 1978; Starý *et al.* 2000; Rakhshani *et al.* 2006a), *Acyrtosiphon pisum* (Harris) (Gonzalez *et al.* 1978; Starý 1979; Yaghubi 1997; Starý *et al.* 2000; Rakhshani *et al.* 2006a, 2008a, 2012b; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Nearctaphis bakeri* (Cowen) (Barahoei *et al.* 2013), *Sitobion avenae* (F.) (Hem.: Aphididae) (Rakhshani *et al.* 2008).

Remarks: Association of *Aphidius smithi* with *Sitobion avenae* seems erroneous and it may come from a mix colony of dropped aphid on cereal host plant.

#### ***Aphidius stigmaticus* Rakhshani and Tomanović, 2011**

General distribution: Iran.

Distribution in Iran: Hamadan (Rakhshani *et al.* 2011).



Host: *Macrosiphoniella tanacetaria* Kaltenbach (Hem.: Aphididae) (Rakhshani *et al.* 2011).

***Aphidius transcaspicus* Telenga, 1958**

General distribution: Palaearctic and Oriental. Distribution in Iran: Qazvin (Starý *et al.* 2000), Guilan (Mokhtari *et al.* 2000; Starý *et al.* 2000), Fars (Starý *et al.* 2000; Rakhshani 2012; Taheri and Rakhshani 2013; Barahoei *et al.* 2013), Tehran (Rakhshani *et al.* 2008a; Rakhshani 2012), Isfahan (Rakhshani *et al.* 2008a; Rakhshani 2012; Barahoei *et al.* 2013), Khuzestan (Mossadegh *et al.* 2011), Khorasan-e-Razavi (Jafari-Ahmadabadi *et al.* 2011; Jafari-Ahmadabadi and Modarres 2012), East Azarbaijan (Mosavi *et al.* 2012), Hamadan (Rakhshani 2012), Ilam (Rakhshani 2012; Nazari *et al.* 2012), Kermanshah (Nazari *et al.* 2012), North Khorasan (Rakhshani 2012; Rakhshani *et al.* 2012b), Kerman (Barahoei *et al.* 2013), Sistan & Baluchestan (Barahoei *et al.* 2014).

Host: *Hyalopterus amygdali* (Blanchard) (Rakhshani *et al.* 2008a; Jafari-Ahmadabadi *et al.* 2011; Mossadegh *et al.* 2011; Rakhshani 2012; Jafari-Ahmadabadi and Modarres 2012; Taheri and Rakhshani 2013; Barahoei *et al.* 2013), *Hyalopterus pruni* (Geoffroy) (Mokhtari *et al.* 2000; Starý *et al.* 2000; Rakhshani *et al.* 2008a, 2012b; Jafari-Ahmadabadi *et al.* 2011; Jafari-Ahmadabadi and Modarres 2012; Rakhshani 2012; Nazari *et al.* 2012; Tomanović *et al.* 2012; Taheri and Rakhshani 2013; Barahoei *et al.* 2013), *Melanaphis donacis* (Passerini) (Tomanović *et al.* 2012; Barahoei *et al.* 2014).

Remarks: *Aphidius transcaspicus* has been synonymized with *Aphidius colemani* Viereck (Yu *et al.* 2012). Several morphological, biological and molecular studies revealed that *A. transcaspicus* is a different and valid species (Kavallieratos *et al.* 2013; Barahoei *et al.* 2014).

***Aphidius urticae* Haliday, 1834**

General distribution: Palaearctic, Nearctic, Oceanic and Oriental.

Distribution in Iran: Mazandaran (Starý *et al.* 2000), Guilan (Rakhshani *et al.* 2008a; Talebi *et al.* 2009), Kerman (Barahoei *et al.* 2013).

Hosts: *Acyrtosiphon pisum* (Harris) (Rakhshani *et al.* 2008a), *Acyrtosiphon gossypii* Mordvilko (Barahoei *et al.* 2013), *Acyrtosiphon* sp. (Starý and Gonzalez 1978), *Microlophium carnosum* (Buckton) (Hem.: Aphididae) (Starý *et al.* 2000; Talebi *et al.* 2009; Rakhshani *et al.* 2008a).

***Aphidius uzbekistanicus* Luzhetskii, 1960**

General distribution: Palaearctic, Nearctic, Neotropical and Oriental.

Distribution in Iran: Alborz (Starý 1979; Starý *et al.* 2000), Sistan & Baluchestan (Bandani 1992; Starý *et al.* 2000; Rakhshani *et al.* 2008a, 2008b), Golestan (Darvish-Mojeni and Bayat-Asadi 1995; Starý *et al.* 2000; Rakhshani *et al.* 2008b), Mazandaran (Starý *et al.* 2000), Khorasan Razavi (Starý *et al.* 2000; Rakhshani *et al.* 2008b), Tehran (Starý *et al.* 2000; Rakhshani *et al.* 2008a, 2008b), Fars (Starý *et al.* 2000; Rakhshani *et al.* 2008a, 2008b; Barahoei *et al.* 2013), Hamadan, Khuzestan, Qom (Rakhshani *et al.* 2008b), Kordestan, Markazi (Rakhshani *et al.* 2008a, 2008b), North Khorasan (Rakhshani *et al.* 2008b, 2012b), Isfahan (Rakhshani *et al.* 2008a, 2008b; Barahoei *et al.* 2013), Kermanshah (Nazari *et al.* 2012).

Hosts: *Diuraphis noxia* (Kurdjumov) (Bandani 1992; Zareh *et al.* 1995; Starý *et al.* 2000), *Metopolophium dirhodum* (Walker) (Rakhshani *et al.* 2008a, 2008b; Barahoei *et al.* 2013), *Rhopalosiphum maidis* (Fitch) (Bandani 1992; Starý *et al.* 2000), *Rhopalosiphum padi* (L.) (Starý 1979; Bandani 1992; Starý *et al.* 2000; Rakhshani *et al.* 2008a, 2008b; Nazari *et al.* 2012), *Schizaphis graminum* (Rondani) (Bandani 1992; Starý *et al.* 2000; Rakhshani *et al.* 2008a, 2008b; Barahoei *et al.* 2013), *Sitobion avenae* (F.) (Hem.: Aphididae) (Starý 1979; Bandani 1992; Darvish-Mojeni and Bayat-Asadi 1995; Starý *et al.* 2000; Rakhshani *et al.* 2008a, 2008b, 2012b; Barahoei *et al.* 2013).

***Aphidius (Euaphidius) cingulatus* Ruthe, 1859**

General distribution: Palaearctic, Nearctic, Neotropical and Oriental.

Distribution in Iran: Khorasan Razavi (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2007b), Alborz (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2007b, 2008a), Guilan (Rakhshani *et al.* 2007b, 2008a; Talebi *et al.* 2009, reported as *Euphidius cingulatus*), North Khorasan (Rakhshani *et al.* 2012b).

Hosts: *Pterocomma pilosum* Buckton (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2007b, 2008a, 2012b; Talebi *et al.* 2009), *Pterocomma populeum* (Kaltenbach) (Starý 1979; Rakhshani *et al.* 2007b, 2008a, 2012b), *Pterocomma* sp. (Hem.: Aphididae) (Starý *et al.* 2000).

***Aphidius (Euaphidius) setiger* (Mackauer, 1961)**

General distribution: Afrotropical, Palaearctic, Nearctic and Oriental.

Distribution in Iran: Lorestan (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2008a; Nazari *et al.* 2012).

Hosts: *Periphyllus testudinaceus* (Frenie) (Rakhshani *et al.* 2008a), *Periphyllus* sp. (Hem.: Aphididae) (Starý 1979; Starý *et al.* 2000; Nazari *et al.* 2012).

***Betuloxys hortorum* (Starý, 1960)**

General distribution: Palaearctic and Oriental.

Distribution in Iran: No specific locality cited (Mackauer and Starý 1967; Starý 1979; Starý *et al.* 2000).

Host: *Tinocallis saltans* (Nevsky) (Hem.: Aphididae) (Mackauer and Starý 1967; Starý 1979; Starý *et al.* 2000).

***Binodoxys acalephae* (Marshall, 1896)**

General distribution: Palaearctic, Nearctic and Oriental.

Distribution in Iran: West Azarbaijan (Starý 1979; Starý *et al.* 2000), Tehran (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2005a; Talebi *et al.* 2009), Kermanshah (Starý 1979; Starý *et al.* 2000, Talebi *et al.* 2009), Alborz, Sistan & Baluchestan (Rakhshani *et al.* 2005a), Guilan, Qazvin (Talebi *et al.* 2009),

Hamadan (Talebi *et al.* 2009; Rakhshani 2012; Nazari *et al.* 2012), Khorasan Razavi (Jafari-Ahmadabadi *et al.* 2011; Jafari-Ahmadabadi and Modarres 2012), Khuzestan (Talebi *et al.* 2009; Mossadegh *et al.* 2011; Nazari *et al.* 2012), Golestan (Rakhshani 2012), North Khorasan (Rakhshani *et al.* 2012b), Kordestan (Talebi *et al.* 2009; Nazari *et al.* 2012), Kerman (Barahoei *et al.* 2012, 2013), Isfahan (Barahoei *et al.* 2013).

Hosts: *Aphis affinis* del Guercio (Talebi *et al.* 2009; Barahoei *et al.* 2013), *Aphis craccivora* Koch (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2005a, 2012b; Talebi *et al.* 2009; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Aphis euphorbiae* Kaltenbach (Talebi *et al.* 2009; Nazari *et al.* 2012), *Aphis fabae* Scopoli (Talebi *et al.* 2009; Rakhshani *et al.* 2012b; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Aphis gossypii* Glover (Barahoei *et al.* 2013), *Aphis idaei* (Barahoei *et al.* 2014), *Aphis nerii* Boyer de Fonscolombe (Talebi *et al.* 2009), *Aphis pomi* de Geer (Rakhshani 2012), *Aphis spiraeicola* Patch (Rakhshani 2012), *Aphis umbrella* (Börner) (Mackauer and Starý 1967; Starý *et al.* 2000; Talebi *et al.* 2009; Nazari *et al.* 2012), *Aphis urticata* F. (Talebi *et al.* 2009), *Aphis* sp. (Starý 1979; Mossadegh *et al.* 2011), *Protaphis* sp. (Hem.: Aphididae) (Barahoei *et al.* 2012, 2013).

***Binodoxys angelicae* (Haliday, 1833)**

General distribution: Palaearctic and Oriental.

Distribution in Iran: Markazi (Radjabi 1989; Starý *et al.* 2000), Guilan (Yaghubi 1997; Starý *et al.* 2000), Tehran (Rakhshani *et al.* 2005a; Talebi *et al.* 2009), Alborz (Talebi *et al.* 2009), Khuzestan (Talebi *et al.* 2009; Mossadegh *et al.* 2011; Nazari *et al.* 2012), Fars (Talebi *et al.* 2009; Taheri and Rakhshani 2013; Barahoei *et al.* 2013), Khorasan Razavi (Jafari-Ahmadabadi *et al.* 2011; Jafari-Ahmadabadi and Modarres 2012), Golestan (Rakhshani 2012), Kermanshah (Nazari *et al.* 2012), Kerman (Barahoei *et al.* 2012, 2013), Isfahan (Barahoei *et al.* 2013).

Hosts: *Aphis acetosae* L. (Barahoei et al. 2013), *Aphis affinis* del Guercio (Mossadegh et al. 2011; Taheri and Rakhshani 2013; Barahoei et al. 2013), *Aphis craccivora* Koch (Rakhshani et al. 2005a; Mossadegh et al. 2011; Nazari et al. 2012; Barahoei et al. 2013), *Aphis epilobiara* Theobald (Nazari et al. 2012), *Aphis fabae* Scopoli (Talebi et al. 2009; Mossadegh et al. 2011; Nazari et al. 2012; Barahoei et al. 2012, 2013; Taheri and Rakhshani 2013), *Aphis farinosa* Gmelin (Yaghubi 1997; Starý et al. 2000), *Aphis gossypii* Glover (Yaghubi 1997; Starý et al. 2000; Mossadegh et al. 2011; Nazari et al. 2012; Barahoei et al. 2013), *Aphis hederæ* Kaltenbach (Yaghubi 1997; Starý et al. 2000), *Aphis idaei* van der Goot (Taheri and Rakhshani 2013; Barahoei et al. 2013), *Aphis nerii* Boyer de Fonscolombe (Talebi et al. 2009), *Aphis pomi* de Geer (Radjabi 1989; Starý et al. 2000; Rakhshani, 2012), *Aphis polygonata* Rusanova (Mossadegh et al. 2011), *Aphis rumicis* L. (Talebi et al. 2009; *Aphis solanella* Theobald (Barahoei et al. 2012, 2013), *Aphis spiraecola* Patch (Rakhshani 2012), *Aphis umbrella* (Börner) (Mackauer and Starý 1967; Starý et al. 2000; Talebi et al. 2009; Mossadegh et al. 2011; Nazari et al. 2012), *Aphis* sp. (Hem.: Aphididae) (Mossadegh et al. 2011).

#### ***Binodoxys brevicornis* (Haliday, 1833)**

General distribution: Palaeartic, Neotropical and Oriental.

Distribution in Iran: Guilan (Yaghubi 1997; Starý et al. 2000), Markazi (Rakhshani et al. 2007b; Talebi et al. 2009; Barahoei et al. 2013).

Hosts: *Cavariella aegopodii* (Scopoli) (Rakhshani et al. 2007b; Talebi et al. 2009; Barahoei et al. 2013), *Hyadaphis* sp. (Hem.: Aphididae) (Yaghubi 1997; Starý et al. 2000).

#### ***Binodoxys heraclei* (Haliday, 1833)**

General distribution: Palaeartic and Oriental.

Distribution in Iran: Khorasan Razavi (Rakhshani et al. 2007b; Talebi et al. 2009), Kermanshah (Nazari et al. 2012).

Host: *Cavariella aspidaphoides* Hille Ris Lambers (Hem.: Aphididae) (Rakhshani et al. 2007b; Talebi et al. 2009; Nazari et al. 2012).

#### ***Diaeretiella rapae* (McIntosh, 1855)**

General distribution: Afrotropical, Australasian, Palaeartic, Nearctic, Neotropical, Oceanic and Oriental.

Distribution in Iran: Qazvin (Davatchi and Shojai 1968; Starý et al. 2000), Alborz (Starý 1979; Starý et al. 2000; Talebi et al. 2009), Tehran (Hodjat and Moradeshaghi 1988; Starý et al. 2000; Rakhshani et al. 2008b; Talebi et al. 2009), Sistan & Baluchestan (Bandani 1992; Starý et al. 2000; Rakhshani et al. 2006a; Rakhshani et al. 2008b; Talebi et al. 2009), Fars (Gonzalez et al. 1992; Ahmadi and Sarafrazi 1993; Starý et al. 2000; Rakhshani et al. 2008b; Taheri and Rakhshani 2013; Barahoei et al. 2013), Hamadan (Starý et al. 2000; Rakhshani et al. 2008b), Guilan, Semnan, Mazandaran (Starý et al. 2000), North Khorasan (Starý et al. 2000; Rakhshani et al. 2012b), Isfahan (Rakhshani et al. 2008b; Talebi et al. 2009; Barahoei et al. 2013), Golestan, Kordestan (Rakhshani et al. 2008b), Kermanshah (Rakhshani et al. 2008b; Nazari et al. 2012), Khorasan Razavi (Rakhshani et al. 2008b; Jafari-Ahmadabadi et al. 2011; Jafari-Ahmadabadi and Modarres 2012; Rakhshani 2012), Markazi, Qom (Rakhshani et al. 2008b; Barahoei et al. 2013), Khuzestan (Mossadegh et al. 2011), Kerman (Barahoei et al. 2012; Barahoei et al. 2013).

Hosts: *Amegosiphon platicaudum* (Narzikulov) (Nazari et al. 2012), *Aphis craccivora* Koch (Rakhshani et al. 2006a; Taheri and Rakhshani 2013; Nazari et al. 2012; Barahoei et al. 2013), *Aphis fabae* Scopoli (Barahoei et al. 2013), *Aphis gossypii* Glover (Mossadegh et al. 2011; Barahoei et al. 2013), *Aphis punicae* Passerini (Nazari et al. 2012), *Aphis solanella* Theobald, *Aphis umbrella* (Börner) (Barahoei et al. 2013), *Brachycaudus amygdalinus* (Schouteden) (Starý 1979; Starý et al. 2000), *Brachycaudus cardui* (L.) (Starý

1979; Starý *et al.* 2000), *Brevicoryne brassicae* (L.) (Davatchi and Shojai 1968; Starý 1979; Starý *et al.* 2000; Talebi *et al.* 2009; Mossadegh *et al.* 2011; Rakhshani *et al.* 2012b; Nazari *et al.* 2012; Barahoei *et al.* 2012, 2013; Taheri and Rakhshani 2013), *Diuraphis noxia* (Kurdjumov) (Bandani 1992; Gonzalez *et al.* 1992; Ahmadi and Sarafrazi 1993; Zareh *et al.* 1995; Ahmadi 2000; Starý *et al.* 2000; Rakhshani *et al.* 2008b, 2012b; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Hayhurstia atriplicis* (L.) (Starý 1979; Starý *et al.* 2000; Nazari *et al.* 2012; Rakhshani *et al.* 2012b), *Lipaphis erysimi* (Kaltenbach) (Starý 1979; Starý *et al.* 2000; Mossadegh *et al.* 2011), *Lipaphis lepidii* Nevsky (Starý *et al.* 2000; Talebi *et al.* 2009; Mossadegh *et al.* 2011; Nazari *et al.* 2012), *Lipaphis pseudobrassicae* (Davis) (Barahoei *et al.* 2013), *Mariaella lambersi* Szelegiewicz (Starý 1979; Starý *et al.* 2000), *Metopolophium dirhodum* (Walker) (Rakhshani *et al.* 2008b), *Myzus beybienkoi* (Narzykulov) (Starý 1979; Starý *et al.* 2000), *Myzus persicae* (Sulzer) (Starý 1979; Hodjat and Moradeshaghi 1988; Starý *et al.* 2000; Rakhshani 2012; Mossadegh *et al.* 2011; Jafari-Ahmadabadi *et al.* 2011; Jafari-Ahmadabadi and Modarres 2012; Taheri and Rakhshani 2013; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Rhopalosiphum maidis* (Fitch) (Starý 1979; Bandani 1992; Starý *et al.* 2000; Barahoei *et al.* 2013), *Rhopalosiphum padi* (L.) (Bandani 1992; Starý *et al.* 2000; Rakhshani *et al.* 2008b; Mossadegh *et al.* 2011; Barahoei *et al.* 2013), *Saltusaphis scirpus* Theobald (Starý *et al.* 2000), *Schizaphis graminum* (Rondani) (Starý 1979; Bandani 1992; Starý *et al.* 2000; Rakhshani *et al.* 2008b; Barahoei *et al.* 2013), *Sitobion avenae* (F.) (Hem.: Aphididae) (Bandani 1992; Starý *et al.* 2000; Rakhshani *et al.* 2008b; Mossadegh *et al.* 2011; Rakhshani *et al.* 2012b; Barahoei *et al.* 2013).

#### ***Lipolexis gracilis* Förster, 1862**

General distribution: Palaearctic and Oriental. Distribution in Iran: North Khorasan (Rakhshani *et al.* 2012b), Markazi (Barahoei *et al.* 2013; Alikhani *et al.* 2013).

Hosts: *Aphis fabae* Scolopli (Rakhshani *et al.* 2008d), *Aphis salviae* Walker (Barahoei *et al.* 2013; Alikhani *et al.* 2013), *Brachycaudus amygdalinus* (Schouteden) (Hem.: Aphididae) (Rakhshani *et al.* 2012b).

#### ***Lysiphlebus confusus* Tremblay & Eady, 1978**

General distribution: Palaearctic and Oriental.

Distribution in Iran: Khorasan Razavi (Starý 1979; Starý *et al.* 2000), Tehran (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2005a; Talebi *et al.* 2009), North Khorasan (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2012b), Mazandaran (Aghajanzadeh *et al.* 1995; Starý *et al.* 2000), Guilan (Yaghubi 1997; Starý *et al.* 2000; Talebi *et al.* 2009), Sistan & Baluchestan (Rakhshani *et al.* 2005a, 2006a), Hamadan (Rakhshani *et al.* 2007b; Talebi *et al.* 2009; Nazari *et al.* 2012), Ardabil (Talebi *et al.* 2009), Kermanshah (Nazari *et al.* 2012), Kerman (Barahoei *et al.* 2012; Barahoei *et al.* 2013), Fars (Taheri and Rakhshani 2013; Barahoei *et al.* 2013).

Hosts: *Acyrtosiphon* sp. (Starý *et al.* 2000), *Aphis affinis* del Guercio (Taheri and Rakhshani 2013), *Aphis craccivora* Koch (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2005a, 2006a; Talebi *et al.* 2009; Nazari *et al.* 2012; Barahoei *et al.* 2013; Taheri and Rakhshani 2013), *Aphis fabae* Scolopli (Talebi *et al.* 2009; Nazari *et al.* 2012), *Aphis farinosa* Gmelin (Yaghubi, 1997; Starý *et al.* 2000; Rakhshani *et al.* 2007b; Talebi *et al.* 2009; Nazari *et al.* 2012), *Aphis gossypii* Glover (Nazari *et al.* 2012), *Aphis idaei* van der Goot (Taheri and Rakhshani 2013; Barahoei *et al.* 2013), *Aphis intybi* Koch (Taheri and Rakhshani 2013; Barahoei *et al.* 2013), *Aphis verbasci* Schrank (Yaghubi 1997; Starý *et al.* 2000; Talebi *et al.* 2009; Rakhshani *et al.* 2012b; Barahoei *et al.* 2013), *Aulacorthum* sp. (Starý 1979), *Brachycaudus cardui* (L.) (Yaghubi 1997; Starý *et al.* 2000), *Brachycaudus helichrysi* (Kaltenbach) (Nazari *et al.* 2012), *Brachyunguis skafi* Remaudiere and Talhouk (Starý *et al.* 2000), *Ephedraphis ephedrae* (Nevsky) (Starý 1979;

Starý et al. 2000), *Hyperomyzus lactucae* (L.) (Barahoei et al. 2013), *Macrosiphoniella tapuskae* Hottes and Frison (Starý 1979; Starý et al. 2000; Rakhshani et al. 2011), *Protaphis* sp. (Starý 1979), *Toxoptera aurantii* (Boyer de Fonscolombe) (Aghajanzadeh et al. 1995; Starý et al. 2000), *Uroleucon* sp. (Hem.: Aphididae) (Barahoei et al. 2012, 2013).

#### ***Lysiphlebus desertorum* Starý, 1965**

General distribution: Palaearctic.

Distribution in Iran: Tehran (Starý 1979), North Khorasan (Starý 1979; Starý et al. 2000; Rakhshani et al. 2012b), Kermanshah (Talebi et al. 2009), Kordestan (Talebi et al. 2009; Nazari et al. 2012), Kerman (Barahoei et al. 2013).

Hosts: *Aphis craccivora* Koch (Barahoei et al. 2013), *Aphis* sp. (Rakhshani et al. 2012b), *Protaphis terricola* Walker (Barahoei et al. 2013), *Protaphis* sp. (Talebi et al. 2009; Nazari et al. 2012), *Xerobion cinae* (Nevsky) (Hem.: Aphididae) (Starý 1979; Starý et al. 2000; Barahoei et al. 2013).

#### ***Lysiphlebus fabarum* (Marshall, 1896)**

General distribution: Australasian, Palaearctic, Oceanic and Oriental.

Distribution in Iran: Fars (Davatchi and Shojai 1968; Starý 1979; Starý et al. 2000; Taheri and Rakhshani 2013; Barahoei et al. 2013), East Azarbaijan, West Azarbaijan (Starý 1979; Starý et al. 2000), Alborz (Starý 1979; Starý et al. 2000; Rakhshani et al. 2005a, 2006a; Talebi et al. 2009), Golestan (Starý 1979; Starý et al. 2000; Rakhshani 2012), Tehran (Starý 1979; Monajemi and Esmaili 1981; Radjabi 1989; Starý et al. 2000; Rakhshani et al. 2005a, 2006a; Talebi et al. 2009; Rakhshani 2012), Khorasan Razavi (Starý 1979; Starý et al. 2000; Jafari-Ahmadabadi et al. 2011; Jafari-Ahmadabadi and Modarres 2012), Mazandaran (Aghajanzadeh et al. 1995; Starý et al. 2000), Guilan (Yaghubi 1997; Mokhtari et al. 2000; Starý et al. 2000; Talebi et al. 2009), Isfahan (Starý et al. 2000; Rakhshani et al. 2006a;

Rakhshani et al. 2008b; Talebi et al. 2009; Rakhshani 2012; Barahoei et al. 2013), Sistan & Baluchestan (Rakhshani et al. 2005a, 2006a; Rakhshani et al. 2008b; Talebi et al. 2009), Zanzan (Rakhshani et al. 2006a), Qazvin (Rakhshani et al. 2006a; Talebi et al. 2009), Hamadan (Rakhshani et al. 2006a; Talebi et al. 2009; Nazari et al. 2012), Kordestan (Rakhshani et al. 2006a; Talebi et al. 2009; Nazari et al. 2012), Kermanshah (Talebi et al. 2009; Nazari et al. 2012; Rakhshani et al. 2006a; Rakhshani 2012), Markazi (Talebi et al. 2009; Barahoei et al. 2013), Khuzestan (Mossadegh et al. 2011; Nazari et al. 2012), Kerman (Barahoei et al. 2011, 2012, 2013), North Khorasan (Rakhshani et al. 2012b), Qom (Barahoei et al. 2013).

Hosts: *Acyrtosiphon ilka* Eastop (Starý 1979; Starý et al. 2000), *Acyrtosiphon gossypii* Mordvilko (Barahoei et al. 2013), *Acyrtosiphon lactucae* (Passerini) (Starý et al. 2000), *Aphis acetosae* L. (Yaghubi 1997; Starý et al. 2000; Barahoei et al. 2013), *Aphis affinis* del Guercio (Yaghubi 1997; Starý et al. 2000; Talebi et al. 2009; Rakhshani et al. 2012b; Taheri and Rakhshani 2013; Nazari et al. 2012; Tomanović et al. 2012; Barahoei et al. 2013), *Aphis alexandrae* (Nevsky) (Rakhshani et al. 2012b), *Aphis althaeae* (Nevsky) (Starý 1979; Starý et al. 2000; Rakhshani et al. 2012b), *Aphis anthemidis* Börner (Talebi et al. 2009; Nazari et al. 2012), *Aphis craccivora* Koch (Starý 1979; Monajemi and Esmaili 1981; Yaghubi 1997; Starý et al. 2000; Rakhshani et al. 2005a, 2006a, 2012b; Talebi et al. 2009; Mossadegh et al. 2011; Barahoei et al. 2011, 2012, 2013; Nazari et al. 2012; Taheri and Rakhshani 2013), *Aphis epilobii* Kaltenbach (Nazari et al. 2012), *Aphis eunymii* F. (Talebi et al. 2009), *Aphis euphorbicola* Rezwani and Lampel (Rakhshani et al. 2012b; Barahoei et al. 2013), *Aphis fabae* Scopoli (Davatchi and Shojai 1968; Yaghubi 1997; Starý et al. 2000; Talebi et al. 2009; Bagheri-Matin et al. 2009; Rakhshani et al. 2012b; Nazari et al. 2012;

Taheri and Rakhshani 2013; Barahoei *et al.* 2011, 2012, 2013), *Aphis gerardianae* Mordvilko (Rakhshani *et al.* 2012b), *Aphis gossypii* Glover (Starý 1979; Yaghubi 1997; Starý *et al.* 2000; Talebi *et al.* 2009; Mossadegh *et al.* 2011; Taheri and Rakhshani 2013; Rakhshani *et al.* 2012b; Barahoei *et al.* 2011, 2012, 2013; Nazari *et al.* 2012), *Aphis idaei* van der Goot (Talebi *et al.* 2009; Taheri and Rakhshani 2013; Barahoei *et al.* 2013), *Aphis intybi* Koch (Yaghubi 1997; Starý *et al.* 2000; Talebi *et al.* 2009; Taheri and Rakhshani 2013; Rakhshani *et al.* 2012b), *Aphis nasturtii* Kaltenbach (Starý 1979; Starý *et al.* 2000; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Aphis nerii* Boyer de Fonscolombe (Yaghubi, 1997; Starý *et al.* 2000; Talebi *et al.* 2009; Barahoei *et al.* 2013), *Aphis origani* Passerini, *Aphis plantaginis* Goeze (Barahoei *et al.* 2013), *Aphis pomi* DeGeer (Radjabi 1989; Malkeshi 1997; Starý *et al.* 2000; Rakhshani 2012), *Aphis punicae* (Passerini) (Talebi *et al.* 2009; Taheri and Rakhshani 2013; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Aphis ruborum* Blackman (Starý 1979; Yaghubi 1997; Starý *et al.* 2000), *Aphis rumicis* L. (Yaghubi 1997; Starý *et al.* 2000; Talebi *et al.* 2009; Nazari *et al.* 2012), *Aphis salviae* Walker (Starý 1979; Starý *et al.* 2000), *Aphis solanella* Theobald (Nazari *et al.* 2012; Barahoei *et al.* 2013), *Aphis spiraecola* Patch (Yaghubi 1997; Starý *et al.* 2000; Rakhshani 2012), *Aphis taraxacicola* (Börner) (Starý 1979; Starý *et al.* 2000), *Aphis umbrella* (Börner) (Starý *et al.* 2000; Talebi *et al.* 2009; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Aphis urticata* Gmelin (Yaghubi 1997; Starý *et al.* 2000), *Aphis* sp. (Starý 1979; Yaghubi 1997; Starý *et al.* 2000; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Brachycaudus amygdalinus* (Schouteden) (Nazari *et al.* 2012; Rakhshani 2012), *Brachycaudus cardui* (L.) (Yaghubi 1997; Starý *et al.* 2000; Talebi *et al.* 2009; Rakhshani *et al.* 2012b; Taheri and Rakhshani 2013; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Brachycaudus helichrysi* (Kaltenbach) (Yaghubi 1997; Starý *et al.* 2000; Rakhshani 2012; Jafari-Ahmadabadi *et al.* 2011; Jafari-Ahmadabadi and Modarres 2012; Taheri and Rakhshani 2013; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Brachycaudus persicae* (Passerini) (Rakhshani 2012), *Brachycaudus tragopogonis setosus* Hille Ris Lambers (Starý *et al.* 2000; Barahoei *et al.* 2012, 2013; Rakhshani *et al.* 2012b), *Brachyunguis harmalae* Das (Talebi *et al.* 2009; Rakhshani *et al.* 2012b), *Brachyunguis zygophylli* (Nevsky) (Barahoei *et al.* 2011, 2012, 2013), *Coloradoa* sp. (Starý 1979; Starý *et al.* 2000), *Dysaphis lappae* Koach (Starý 1979), *Dysaphis plantaginea* (Passerini) (Starý *et al.* 2000; Rakhshani 2012; Barahoei *et al.* 2013), *Dysaphis radicola* (Mordvilko), *Hyadaphis coriandri* (Passerini), *Lipaphis erysimi* (Kaltenbach), *Lipaphis fritzmuelleri* Börner, *Myzus beybienkoi* (Narzikulov), *Protaphis elongata* (Nevsky) (Talebi *et al.* 2009), *Hayhurstia atriplicis* (L.) (Nazari *et al.* 2012), *Hyalopterus amygdali* (Blanchard) (Rakhshani 2012), *Hyalopterus pruni* (Geoffroy) (Jafari-Ahmadabadi *et al.* 2011; Jafari-Ahmadabadi and Modarres 2012), *Lipaphis lepidii* Nevsky (Starý 1979; Starý *et al.* 2000; Talebi *et al.* 2009), *Macrosiphoniella papilata* Holman (Barahoei *et al.* 2013), *Macrosiphoniella sanborni* (Gillette) (Yaghubi 1997; Starý *et al.* 2000), *Macrosiphum rosae* (L.) (Taheri and Rakhshani 2013), *Melanaphis* sp. (Barahoei *et al.* 2012, 2013), *Melanaphis sacchari* (Zehntner) (Barahoei *et al.* 2011), *Metopolophium dirhodum* (Walker) (Barahoei *et al.* 2013), *Myzus persicae* (Sulzer) (Talebi *et al.* 2009; Barahoei *et al.* 2013), *Phorodon humuli* (Schrank) (Mokhtari *et al.* 2000; Starý *et al.* 2000), *Protaphis terricola* Walker (Barahoei *et al.* 2013), *Protaphis* sp. (Starý 1979; Barahoei *et al.* 2013), *Rhopalosiphum nymphaeae* (L.) (Mokhtari *et al.* 2000; Starý *et al.* 2000), *Rhopalosiphum padi* (L.) (Rakhshani *et al.* 2008b; Nazari *et al.* 2012; Taheri and Rakhshani 2013), *Saltusaphis scirpus* Theobald (Starý *et al.* 2000; Tomanović *et al.*

2012), *Saltusaphis* sp. (Starý 1979), *Toxoptera aurantii* (Boyer de Fonscolombe) (Hem.: Aphididae) (Aghajanzadeh *et al.* 1995; Starý *et al.* 2000).

***Lysiphlebus testaceipes* (Cresson, 1880)**

General distribution: Afrotropical, Australasian, Palearctic, Nearctic, Neotropical, Oceanic and Oriental.

Distribution in Iran: Tehran (Rakhshani *et al.* 2005a).

Host: *Aphis craccivora* Koch (Hem.: Aphididae) (Rakhshani *et al.* 2005a).

***Monoctonia vesicarii* Tremblay, 1991**

General distribution: Palearctic.

Distribution in Iran: Ardabil (Ghafouri Moghaddam *et al.* 2012), Tehran (Rakhshani *et al.* 2015).

Host: *Pemphigus spirothecae* Passerini (Hem.: Aphididae) (Ghafouri Moghaddam *et al.* 2012).

***Monoctonus mali* van Achterberg, 1989**

General distribution: Palearctic.

Distribution in Iran: West Azarbaijan (Mosavi *et al.* 2012).

***Pauesia antennata* (Mukerji, 1950)**

General distribution: Palearctic.

Distribution in Iran: Hamadan (Rakhshani *et al.* 2005b), Ardabil, Tehran (Rakhshani *et al.* 2005b; Rakhshani 2012), Sistan & Baluchestan (Rakhshani *et al.* 2005b; Talebi *et al.* 2009; Rakhshani 2012), Kermanshah (Rakhshani 2012; Nazari *et al.* 2012), North Khorasan (Rakhshani 2012; Rakhshani *et al.* 2012b), Kerman (Rakhshani 2012; Barahoei *et al.* 2013).

Host: *Pterochloroides persicae* (Cholodkovsky) (Hem.: Aphididae) (Starý *et al.* 2000; Rakhshani *et al.* 2005b, 2012b; Talebi *et al.* 2009; Rakhshani 2012; Nazari *et al.* 2012; Barahoei *et al.* 2013).

***Pauesia hazratbalensis* Bhagat, 1981**

General distribution: India, Iran, Kyrgyzstan.

Distribution in Iran: Tehran (Starý *et al.* 2005), North Khorasan (Rakhshani *et al.* 2012b).

Host: *Cinara (Cupressobium) tujafilina* (del Guercio) (Hem.: Aphididae) (Starý *et al.* 2005; Rakhshani *et al.* 2012b).

***Tamyrtrichophorus petiolaris* Mackauer, 1961**

General distribution: Iran.

Distribution in Iran: Tehran (Starý *et al.* 2000).

Host: *Brachycaudus persicae* (Passerini) (Hem.: Aphididae) (Starý *et al.* 2000).

***Trioxys asiaticus* Telenga, 1953**

General distribution: Palearctic and Oriental.

Distribution in Iran: Alborz (Starý *et al.* 2000), Tehran (Talebi *et al.* 2009), Kerman (Talebi *et al.* 2009; Barahoei *et al.* 2013).

Hosts: *Acyrtosiphon gossypii* Mordvilko (Starý *et al.* 2000; Rakhshani *et al.* 2008c; Talebi *et al.* 2009; Barahoei *et al.* 2013), *Acyrtosiphon pisum* (Harris) (Hem.: Aphididae) (Barahoei *et al.* 2013).

***Trioxys cirsii* (Curtis, 1831)**

General distribution: Australasian, Palearctic and Nearctic.

Distribution in Iran: Mazandaran (Babaei *et al.* 2000; Starý *et al.* 2000).

Host: *Drepanosiphum platanoidis* (Schrank) (Hem.: Aphididae) (Babaei *et al.* 2000; Starý *et al.* 2000).

***Trioxys complanatus* Quilis, 1931**

General distribution: Afrotropical, Australasian, Palearctic, Nearctic, Neotropical, Oceanic and Oriental.

Distribution in Iran: West Azarbaijan (Starý 1979; Starý *et al.* 2000), Tehran (Monajemi and Esmaili 1981; Starý *et al.* 2000; Rakhshani *et al.* 2006a), Alborz, Ardabil, Markazi, Qazvin, Semnan, Sistan & Baluchestan, Zanzan (Rakhshani *et al.* 2006a), Hamadan, Kermanshah, Kordestan (Rakhshani *et al.* 2006a; Nazari *et al.* 2012), Isfahan (Rakhshani *et al.* 2006a; Barahoei *et al.* 2013), North Khorasan (Rakhshani *et al.* 2012b), Kerman (Barahoei *et al.* 2013).

Hosts: *Therioaphis khayami* Remaudiere (Starý *et al.* 2000), *Therioaphis riehmii* (Börner) (Starý 1979; Starý *et al.* 2000), *Therioaphis trifolii* (Monell) (Farahbakhsh

1961; Starý 1979; Monajemi and Esmaili 1981; Starý *et al.* 2000; Rakhshani *et al.* 2006a, 2008c, 2012b; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Therioaphis* sp. (Hem.: Aphididae) (Starý 1979).

***Trioxys curvicaudus* Mackauer, 1967**

General distribution: Palaearctic and Nearctic. Distribution in Iran: Tehran (Rakhshani *et al.* 2008c).

Host: *Eucalipterus tilliae* (L.) (Hem.: Aphididae) (Rakhshani *et al.* 2008c).

***Trioxys metacarpalis* Rakhshani and Starý, 2012**

General distribution: Iran.

Distribution in Iran: North Khorasan (Rakhshani *et al.* 2008c, reported as *Trioxys parauctus* Starý, 1960; Rakhshani *et al.* 2012b).

Host: *Chaitaphis tenuicauda* Nevsky (Hem.: Aphididae) (Rakhshani *et al.* 2012b).

***Trioxys pallidus* (Haliday, 1833)**

General distribution: Palaearctic, Nearctic and Oriental.

Distribution in Iran: Mazandaran (Babae *et al.* 2000; Starý *et al.* 2000), Qazvin (Mohammadbeigi 2000; Starý *et al.* 2000), Tehran (Starý *et al.* 2000; Rakhshani *et al.* 2004; Talebi *et al.* 2009), Alborz, Golestan (Talebi *et al.* 2009), Isfahan, Kohgiluyeh & Boyer-Ahmad (Talebi *et al.* 2009; Barahoei *et al.* 2013), Kermanshah (Nazari *et al.* 2012), North Khorasan (Rakhshani *et al.* 2012b), Kerman (Barahoei *et al.* 2012, 2013), Fars (Taheri and Rakhshani 2013; Barahoei *et al.* 2013).

Hosts: *Chromaphis juglandicola* (Kaltenbach) (Starý 1979; Mohammadbeigi 2000; Starý *et al.* 2000; Rakhshani *et al.* 2004, 2008c, 2012b; Talebi *et al.* 2009; Taheri and Rakhshani 2013; Nazari *et al.* 2012; Barahoei *et al.* 2012, 2013), *Hoplocallis pictus* (Ferrari) (Rakhshani *et al.* 2008c), *Pterocallis alni* (DeGeer) (Hem.: Aphididae) (Babae *et al.* 2000; Starý *et al.* 2000).

***Trioxys pannonicus* Starý, 1960**

General distribution: Palaearctic and Oriental. Distribution in Iran: Kermanshah (Starý 1979; Starý *et al.* 2000), Guilan (Talebi *et al.* 2009), Sistan & Baluchestan (Barahoei *et al.* 2014).

Hosts: *Macrosiphoniella tuberculata* (Nevsky) (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2011), *Macrosiphoniella* sp. (Rakhshani *et al.* 2008c; Talebi *et al.* 2009), *Titanosiphon neoartemisiae* (Hem.: Aphididae) (Barahoei *et al.* 2014).

***Trioxys pappi* Takada, 1979**

General distribution: Mongolia and Iran.

Distribution in Iran: No specific locality cited (Davidian 2005).

Remarks: *Trioxys pappi* has been reported as *Trioxys persicus* Davidian, 2005, but the re-examination of type specimen indicated that this is *Trioxys pappi* Takada, 1979.

***Trioxys tanaceticola* Starý, 1971**

General distribution: Iran, France and Kazakhstan.

Distribution in Iran: Mazandaran (Starý 1979; Starý *et al.* 2000), Guilan (Talebi *et al.* 2009).

Hosts: *Coloradoa heinzei* Börner (Starý 1979; Starý *et al.* 2000), *Coloradoa absinthii* (Lichtenstein) (Talebi *et al.* 2009), *Coloradoa* sp. (Barahoei *et al.* 2014), *Titanosiphon neoartemisiae* Nevsky (Hem.: Aphididae) (Rakhshani *et al.* 2008c; Talebi *et al.* 2009).

**Tribe Ephedrini Mackauer, 1961**

***Ephedrus cerasicola* Starý, 1962**

General distribution: Palaearctic, Nearctic and Oceanic.

Distribution in Iran: Guilan (Mokhtari *et al.* 2000; Starý *et al.* 2000; Rakhshani 2012), Kordestan, Khorasan Razavi (Rakhshani 2012), Isfahan (Rakhshani 2012; Barahoei *et al.* 2013).

Hosts: *Dysaphis plantaginea* (Passerini) (Rakhshani 2012; Barahoei *et al.* 2013), *Myzus cerasi* (F.) (Rakhshani 2012), *Myzus persicae* (Sulzer) (Rakhshani 2012), *Phorodon*



*humuli* (Schrank) (Mokhtari et al. 2000; Starý et al. 2000), *Rhopalosiphum nymphaeae* (L.) (Hem.: Aphididae) (Mokhtari et al. 2000; Starý et al. 2000).

***Ephedrus chaitophori* Gärdenfors, 1986**

General distribution: Palaearctic and Nearctic.  
Distribution in Iran: Tehran (Rakhshani et al. 2007b).

Host: *Chaitophorus populeti* (Panzer) (Hem.: Aphididae) (Rakhshani et al. 2007b).

***Ephedrus helleni* Mackauer, 1968**

General distribution: Palaearctic and Oriental.

Distribution in Iran: Tehran (Starý 1979; Starý et al. 2000; Rakhshani et al. 2007b), Alborz (Talebi et al. 2009).

Hosts: *Cavariella aquatica* (Gillette and Bragg) (Starý 1979; Starý et al. 2000; Rakhshani et al. 2007b; Talebi et al. 2009), *Hayhurstia atriplicis* (L.) (Hem.: Aphididae) (Barahoei et al. 2014).

***Ephedrus niger* Gautier, Bonnamour & Gaumont, 1929**

General distribution: Palaearctic and Oriental.  
Distribution in Iran: Mazandaran (Starý 1979; Starý et al. 2000), Tehran (Starý 1979; Starý et al. 2000; Talebi et al. 2009), North Khorasan (Starý 1979; Starý et al. 2000; Rakhshani et al. 2012b), Guilan (Yaghubi 1997; Starý et al. 2000; Talebi et al. 2009), Isfahan (Talebi et al. 2009; Barahoei et al. 2013), Kermanshah (Nazari et al. 2012), Kerman (Barahoei et al. 2012, 2013), Fars (Taheri and Rakhshani 2013).

Hosts: *Macrosiphoniella abrotani* (Walker) (Starý et al. 2000; Rakhshani et al. 2011), *Macrosiphoniella sanborni* (Gillette) (Rakhshani et al. 2011; Nazari et al. 2012), *Macrosiphoniella* sp. (Starý 1979; Yaghubi 1997; Starý et al. 2000; Rakhshani et al. 2011; Barahoei et al. 2013), *Uroleucon cichorii* (Koch) (Yaghubi 1997; Starý et al. 2000; Barahoei et al. 2012, 2013), *Uroleucon acroptilidis* Kadyrbekov, Renxin and Shao, *Uroleucon bielawskii* (Szelegiewicz), *Uroleucon cichorii* (Koch) (Barahoei et al.

2013), *Uroleucon compositae* (Theobald) (Nazari et al. 2012; Barahoei et al. 2013), *Uroleucon erigeronense* (Thomas) (Starý et al. 2000; Talebi et al. 2009; Nazari et al. 2012), *Uroleucon jaceae* (L.) (Starý et al. 2000; Talebi et al. 2009; Rakhshani et al. 2012b; Nazari et al. 2012; Barahoei et al. 2012, 2013), *Uroleucon sonchi* (L.) (Talebi et al. 2009; Taheri and Rakhshani 2013; Rakhshani et al. 2012b; Nazari et al. 2012; Barahoei et al. 2012, 2013), *Uroleucon* sp. (Hem.: Aphididae) (Starý 1979; Starý et al. 2000; Barahoei et al. 2012, 2013).

***Ephedrus persicae* Froggatt, 1904**

General distribution: Afrotropical, Australasian, Palaearctic, Nearctic, Neotropical and Oriental.

Distribution in Iran: Tehran (Mackauer 1963; Starý 1979; Starý et al. 2000; Rakhshani et al. 2005a; Talebi et al. 2009; Rakhshani 2012), Alborz (Starý 1979; Starý et al. 2000; Rakhshani 2012), Fars (Starý 1979; Starý et al. 2000; Rakhshani 2012; Taheri and Rakhshani 2013; Barahoei et al. 2013), Sistan & Baluchestan (Bandani 1992; Starý et al. 2000; Rakhshani et al. 2005a, 2006a; Rakhshani et al. 2008b; Talebi et al. 2009), North Khorasan (Malkeshi 1997; Starý et al. 2000; Rakhshani 2012; Rakhshani et al. 2012b), Guilan (Starý et al. 2000), Markazi, Qom (Rakhshani et al. 2008b), Kermanshah (Rakhshani et al. 2008b; Rakhshani 2012; Nazari et al. 2012), Khuzestan (Mossadegh et al. 2011), Khorasan Razavi (Jafari-Ahmadabadi et al. 2011; Rakhshani 2012; Jafari-Ahmadabadi and Modarres 2012), Kordestan, Qazvin (Rakhshani 2012), Isfahan (Rakhshani 2012; Barahoei et al. 2013), Kerman (Barahoei et al. 2012, 2013).

Hosts: *Aphis affinis* del Guercio (Talebi et al. 2009; Taheri and Rakhshani 2013; Barahoei et al. 2013), *Aphis craccivora* Koch (Starý et al. 2000; Rakhshani et al. 2005a, 2006a; Žikić et al. 2009; Nazari et al. 2012; Barahoei et al. 2012, 2013), *Aphis fabae* Scopoli (Starý 1979; Žikić et al. 2009; Taheri and Rakhshani

2013; Barahoei *et al.* 2013), *Aphis gossypii* Glover (Barahoei *et al.* 2013), *Aphis nerii* Boyer de Fonscolombe (Talebi *et al.* 2009), *Aphis plantaginis* Goeze (Barahoei *et al.* 2013), *Aphis pomi* DeGeer (Malkeshi 1997; Starý *et al.* 2000), *Aphis punicae* Passerini (Starý *et al.* 2000), *Brachycaudus amygdalinus* (Schouteden) (Talebi *et al.* 2009; Žikić *et al.* 2009; Jafari-Ahmadabadi *et al.* 2011; Jafari-Ahmadabadi and Modarres 2012; Rakhshani 2012; Nazari *et al.* 2012; Rakhshani *et al.* 2012b), *Brachycaudus cardui* (L.) (Žikić *et al.* 2009), *Brachycaudus helichrysi* (Kaltenbach) (Starý 1979; Starý *et al.* 2000; Žikić *et al.* 2009; Rakhshani 2012; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Brachyunguis tamaricis* (Lichtenstein) (Starý 1979; Starý *et al.* 2000), *Diuraphis noxia* (Kurdjumov) (Bandani 1992; Starý *et al.* 2000), *Dysaphis crataegi* (Kaltenbach) (Starý *et al.* 2000), *Dysaphis depecta* (Walker) (Žikić *et al.* 2009), *Dysaphis foeniculus* Theobald (Talebi *et al.* 2009), *Dysaphis plantaginea* (Passerini) (Malkeshi 1997; Starý *et al.* 2000; Rakhshani 2012; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Dysaphis pyri* (Boyer de Fonscolombe) (Mackauer 1963; Malkeshi 1997; Starý *et al.* 2000; Žikić *et al.* 2009; Rakhshani 2012), *Dysaphis reaumuri* (Mordvilko) (Rakhshani 2012; Barahoei *et al.* 2013), *Hayhurstia atriplicis* (L.) (Barahoei *et al.* 2013), *Hyadaphis coriandri* Das (Talebi *et al.* 2009), *Hyalopterus amygdali* (Blanchard) (Rakhshani 2012; Jafari-Ahmadabadi *et al.* 2011; Jafari-Ahmadabadi and Modarres 2012; Barahoei *et al.* 2013), *Hyadaphis coriandri* Das on *Coriandrum* sp., Iran, Zabol, 04-I-2003, leg. E. Rakhshani; *Metopolophium dirhodum* (Walker) (Bandani 1992; Starý *et al.* 2000; Rakhshani *et al.* 2008b), *Myzus cerasi* (F.) (Žikić *et al.* 2009; Rakhshani 2012), *Myzus persicae* (Sulzer) (Talebi *et al.* 2009; Žikić *et al.* 2009; Rakhshani 2012; Nazari *et al.* 2012; Barahoei *et al.* 2013), *Phorodon humuli* (Schrank) (Rakhshani 2012; Barahoei *et al.* 2013), *Rhopalosiphum maidis* (Fitch) (Starý

1979; Bandani 1992; Starý *et al.* 2000; Mossadegh *et al.* 2011; Barahoei *et al.* 2012, 2013), *Rhopalosiphum padi* (L.) (Starý 1979; Bandani 1992; Starý *et al.* 2000; Rakhshani *et al.* 2008b), *Schizaphis graminum* (Rondani) (Bandani 1992; Starý *et al.* 2000; Žikić *et al.* 2009; Rakhshani *et al.* 2008b, 2012b), *Sipha maydis* Passerini (Bandani 1992; Starý *et al.* 2000), *Sitobion avenae* (F.) (Bandani 1992; Starý *et al.* 2000; Barahoei *et al.* 2013), *Toxoptera aurantii* Boyer de Fonscolombe (Hem.: Aphididae) (Mackauer, 1963).

#### ***Ephedrus plagiator* (Nees, 1811)**

General distribution: Australasian, Palaearctic, Neotropical, Oceanic and Oriental.

Distribution in Iran: East Azarbaijan (Starý 1979; Starý *et al.* 2000), Golestan (Darvish-Mojeni and Bayat-Asadi 1995; Starý *et al.* 2000), Guilan (Yaghubi 1997; Mokhtari *et al.* 2000; Starý *et al.* 2000), Tehran (Rakhshani *et al.* 2008b), Isfahan (Rakhshani *et al.* 2008b; Barahoei *et al.* 2013), Khuzestan (Rakhshani *et al.* 2008b; Nazari *et al.* 2012), Alborz, Khorasan Razavi (Rakhshani 2012), Sistan & Baluchestan (Barahoei *et al.* 2014).

Hosts: *Brachycaudus cardui* (L.) (Yaghubi 1997; Starý *et al.* 2000), *Brachycaudus helichrysi* (Kaltenbach) (Rakhshani 2012), *Dysaphis crataegi* (Kaltenbach) (Starý *et al.* 2000), *Dysaphis pyri* (Boyer de Fonscolombe) (Rakhshani 2012), *Dysaphis* sp. (Starý 1979), *Myzus cerasi* (F.) (Mokhtari *et al.* 2000; Starý *et al.* 2000), *Rhopalosiphum padi* (L.) (Rakhshani *et al.* 2008b; Barahoei *et al.* 2013), *Schizaphis graminum* (Rondani) (Rakhshani *et al.* 2008b; Barahoei *et al.* 2014), *Sitobion avenae* (F.) (Hem.: Aphididae) (Darvish-Mojeni and Bayat-Asadi 1995; Starý *et al.* 2000; Rakhshani *et al.* 2008b; Nazari *et al.* 2012).

#### **Tribe Praini Mackauer, 1961**

##### ***Areopraon lepelleyi* (Waterson, 1926)**

General distribution: Palaearctic and Oriental.

Distribution in Iran: North Khorasan (Kazemzadeh *et al.* 2009; Rakhshani *et al.* 2012b).

Host: *Eriosoma lanuginosum* (Hartig) (Hem.: Aphididae) (Kazemzadeh *et al.* 2009; Rakhshani *et al.* 2012b).

***Praon abjectum* (Haliday, 1833)**

General distribution: Palaearctic, Nearctic and Oriental.

Distribution in Iran: Tehran (Rakhshani *et al.* 2007a; Rakhshani 2012).

Host: *Brachycaudus cardui* (L.) (Hem.: Aphididae) (Rakhshani *et al.* 2007a; Rakhshani 2012).

***Praon absinthii* (Haliday, 1833)**

General distribution: Palaearctic and Oriental.

Distribution in Iran: Guilan (Starý 1979; Starý *et al.* 2000), Tehran (Rakhshani *et al.* 2007a), Zanjan (Rakhshani *et al.* 2007a; Talebi *et al.* 2009), Kerman (Barahoei *et al.* 2010, 2012, 2013).

Hosts: *Macrosiphoniella absinthii* (L.) (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2011), *Macrosiphoniella oblonga* (Mordvilko) (Rakhshani *et al.* 2007a, 2011; Talebi *et al.* 2009), *Macrosiphoniella sanborni* (Gillette) (Rakhshani *et al.* 2007a, 2011).

***Praon barbatum* Mackauer, 1967**

General distribution: Palaearctic and Oriental.

Distribution in Iran: Alborz (Starý 1979; Starý *et al.* 2000), Ardabil (Gonzalez 1978; Starý and Gonzalez 1978; Starý 1979; Starý *et al.* 2000), Tehran (Rakhshani *et al.* 2007a), Kermanshah (Nazari *et al.* 2012), Fars (Taheri and Rakhshani 2013), Isfahan (Barahoei *et al.* 2013).

Hosts: *Acyrtosiphon pisum* (Harris) (Gonzalez 1978; Starý and Gonzalez 1978; Starý, 1979; Starý *et al.* 2000; Rakhshani *et al.* 2007a; Nazari *et al.* 2012; Taheri and Rakhshani 2013; Barahoei *et al.* 2013), *Nearctaphis bakeri* (Cowen) (Hem.: Aphididae) (Barahoei *et al.* 2013).

***Praon bicolor* Mackaur, 1959**

General distribution: Palaearctic.

Distribution in Iran: Alborz (Farahani *et al.* 2015b).

***Praon exsoletum* (Nees, 1811)**

General distribution: Afrotropical, Palaearctic, Nearctic and Neotropical.

Distribution in Iran: Tehran (Monajemi and Esmaili 1981; Rasulian 1985, 1989; Starý *et al.* 2000; Rakhshani *et al.* 2006a; Rakhshani *et al.* 2007a), Qazvin, Semnan (Rakhshani *et al.* 2006a), Alborz, Sistan & Baluchestan, Zanjan (Rakhshani *et al.* 2006aa; Rakhshani *et al.* 2007a), Hamadan, Kordestan (Rakhshani *et al.* 2006a; Rakhshani *et al.* 2007a; Nazari *et al.* 2012), Kermanshah (Rakhshani *et al.* 2006a; Nazari *et al.* 2012), North Khorasan (Rakhshani *et al.* 2012b), Isfahan (Barahoei *et al.* 2013).

Hosts: *Therioaphis riehmii* (Börner) (Starý *et al.* 2000), *Therioaphis trifolii* (Hem.: Aphididae) (Monell) (Farahbakhsh 1961; Starý 1979; Monajemi and Esmaili 1981; Rasulian 1985, 1989; Starý *et al.* 2000; Rakhshani *et al.* 2006a, 2007a, 2012b; Nazari *et al.* 2012; Barahoei *et al.* 2013).

***Praon flavinode* (Haliday, 1833)**

General distribution: Palaearctic and Oriental.

Distribution in Iran: Kerman (Barahoei *et al.* 2010, 2012, 2013).

Hosts: *Tinocallis nevskyi* Remaudiere, Quednau and Heie (Hem.: Aphididae) (Barahoei *et al.* 2010, 2012, 2013).

Remarks: This species has been synonymized with *P. absinthii* (Hodgson 1917; Yu *et al.* 2012), but we believe that these two species are completely different and valid species.

***Praon gallicum* Starý, 1971**

General distribution: Palaearctic, Nearctic and Neotropical.

Distribution in Iran: Kermanshah (Bagheri-Matin *et al.* 2010; Nazari *et al.* 2012).

Host: *Rhopalosiphum padi* (L.) (Hem.: Aphididae) (Bagheri-Matin *et al.* 2010; Nazari *et al.* 2012).

***Praon necans* Mackauer, 1959**

General distribution: Palaearctic and Oriental.

Distribution in Iran: Khuzestan (Mossadegh *et al.* 2011), Kermanshah (Nazari *et al.* 2012).

Hosts: *Aphis craccivora* Koch (Nazari *et al.* 2012), *Aphis gossypii* Glover, *Aphis nerii* Boyer de Fonscolombe (Mossadegh *et al.* 2011), *Aphis punicae* Passerini, *Macrosiphoniella sanborni* (Gillette) (Nazari *et al.* 2012), *Myzus persicae* (Sulzer) (Mossadegh *et al.* 2011), *Rhopalosiphum nymphaeae* (L.) (Nazari *et al.* 2012), *Rhopalosiphum padi* (L.) (Mossadegh *et al.* 2011; Nazari *et al.* 2012), *Sitobion avenae* (F.) (Hem.: Aphididae) (Mossadegh *et al.* 2011).

***Praon orpheusi* Kavallieratos, Athanassiou & Tomanovic, 2003**

General distribution: Palaearctic.

Distribution in Iran: Tehran (Rakhshani *et al.* 2007a; Talebi *et al.* 2009).

Host: *Hyperomyzus lactucae* (L.) (Hem.: Aphididae) (Rakhshani *et al.* 2007a; Talebi *et al.* 2009).

***Praon pubescens* Starý, 1961**

General distribution: Palaearctic and Oriental.

Distribution in Iran: Khuzestan (Nazari *et al.* 2012).

Host: *Nasonovia ribisnigri* (Mosley) (Hem.: Aphididae) (Nazari *et al.* 2012).

***Praon rosaecola* Starý, 1961**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Rakhshani *et al.* 2007a), Tehran (Rakhshani *et al.* 2007a), Alborz (Talebi *et al.* 2009), Kerman (Barahoei *et al.* 2010, 2012; Barahoei *et al.* 2013), North Khorasan (Rakhshani *et al.* 2012b), Isfahan (Barahoei *et al.* 2013).

Hosts: *Macrosiphum rosae* (L.) (Rakhshani *et al.* 2007a, 2012b; Talebi *et al.* 2009; Barahoei *et al.* 2010, 2012, 2013), *Wahlgreniella neroata* (Gillette) (Hem.: Aphididae) (Barahoei *et al.* 2013).

***Praon unitum* Mescheloff & Rosen, 1989**

General distribution: Palaearctic.

Distribution in Iran: Kerman (Barahoei *et al.* 2010, 2012, 2013).

Hosts: *Macrosiphoniella sanborni* (Gillette) (Rakhshani *et al.* 2011), *Uroleucon acroptilidis* Kadyrbekov, Renxin and Shao (Barahoei *et al.* 2010, 2012, 2013), *Uroleucon jaceae* (L.),

*Uroleucon sonchi* (L.) (Hem.: Aphididae) (Barahoei *et al.* 2013).

***Praon volucre* (Haliday, 1833)**

General distribution: Palaearctic, Neotropical and Oriental.

Distribution in Iran: Alborz (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2007a; Talebi *et al.* 2009; Rakhshani 2012), Tehran (Starý 1979; Starý *et al.* 2000; Rakhshani *et al.* 2005a; Rakhshani *et al.* 2006a; Rakhshani *et al.* 2007a, 2008b; Talebi *et al.* 2009; Rakhshani 2012), West Azarbaijan (Starý *et al.* 2000), Zanzan (Rakhshani *et al.* 2006a), Sistan & Baluchestan (Rakhshani *et al.* 2006a; Rakhshani *et al.* 2007a, 2008b; Talebi *et al.* 2009; Rakhshani 2012), Qazvin (Rakhshani *et al.* 2007a), Golestan (Rakhshani *et al.* 2007a, 2008b), Hamadan (Rakhshani *et al.* 2007a, 2008b; Rakhshani 2012; Nazari *et al.* 2012), Fars (Rakhshani *et al.* 2007a, 2008b; Rakhshani 2012; Taheri and Rakhshani 2013; Barahoei *et al.* 2013), Isfahan (Rakhshani *et al.* 2007a, 2008b; Talebi *et al.* 2009; Barahoei *et al.* 2013), Kordestan (Rakhshani *et al.* 2007a, 2008b; Rakhshani 2012), Markazi, Qom (Rakhshani *et al.* 2008b), Kermanshah (Rakhshani *et al.* 2008b; Talebi *et al.* 2009; Rakhshani 2012; Nazari *et al.* 2012), Khorasan Razavi (Rakhshani *et al.* 2008b; Jafari-Ahmadabadi *et al.* 2011; Rakhshani 2012; Jafari-Ahmadabadi and Modarres 2012), North Khorasan (Rakhshani 2012; Rakhshani *et al.* 2012b), Khuzestan (Rakhshani *et al.* 2008b; Nazari *et al.* 2012), Kerman (Barahoei *et al.* 2010, 2012, 2013).

Hosts: *Acyrtosiphon lactucae* (Passerini) (Rakhshani *et al.* 2007a), *Acyrtosiphon pisum* (Harris) (Rakhshani *et al.* 2006a, 2007a), *Amphorophora catharinae* (Nevsky) (Rakhshani *et al.* 2012b; Barahoei *et al.* 2010, 2012, 2013), *Aphis affinis* del Guercio (Rakhshani *et al.* 2012b), *Aphis craccivora* Koch (Rakhshani *et al.* 2005a, 2006a, 2007a, 2012b; Barahoei *et al.* 2010, 2012, 2013), *Aphis dlabolai* Holman (Barahoei *et al.* 2013),

*Aphis fabae* Scopoli (Starý, 1979; Starý et al. 2000; Rakhshani et al. 2007a; Barahoei et al. 2013; Taheri and Rakhshani, 2013; Nazari et al. 2012), *Aphis gossypii* Glover (Barahoei et al. 2013), *Aphis pomi* de Geer (Rakhshani 2012), *Aphis solanella* Theobald (Rakhshani et al. 2007a; Talebi et al. 2009; Barahoei et al. 2010, 2012, 2013), *Aphis urticae* Gmelin (Rakhshani et al. 2012b), *Brachycaudus amygdalinus* (Schouteden) (Rakhshani et al. 2007a; Talebi et al. 2009; Rakhshani 2012), *Brachycaudus cardui* (L.) (Rakhshani 2012), *Brachycaudus helichrysi* (Kaltenbach) (Rakhshani et al. 2007a; Talebi et al. 2009; Jafari-Ahmadabadi et al. 2011; Jafari-Ahmadabadi and Modarres 2012; Rakhshani 2012; Barahoei et al. 2013), *Brachycaudus persicae* (Passerini) (Rakhshani 2012), *Diuraphis noxia* (Kurdjumov) (Starý et al. 2000; Rakhshani et al. 2007a, 2008b; Barahoei et al. 2013), *Dysaphis pyri* (Boyer de Fonscolombe) (Rakhshani 2012), *Hyalopterus amygdali* (Blanchard) (Rakhshani et al. 2007a; Taheri and Rakhshani 2013; Rakhshani 2012; Nazari et al. 2012), *Hyalopterus pruni* (Geoffrey) (Rakhshani et al. 2007a; Rakhshani 2012; Jafari-Ahmadabadi et al. 2011; Jafari-Ahmadabadi and Modarres 2012; Barahoei et al. 2013), *Hyperomyzus lactucae* (L.) (Rakhshani et al. 2007a; Talebi et al. 2009), *Macrosiphum rosae* (L.) (Rakhshani et al. 2007a; Talebi et al. 2009; Barahoei et al. 2010, 2012, 2013; Nazari et al. 2012), *Macrosiphum* sp. (Starý et al. 2000), *Macrosiphoniella* sp. (Rakhshani et al. 2011), *Metopolophium dirhodum* (Walker) (Rakhshani et al. 2008b; Taheri and Rakhshani 2013; Barahoei et al. 2013), *Myzus beybienkoi* (Narzykulov) (Starý et al. 2000), *Myzus persicae* (Sulzer) (Starý 1979; Starý et al. 2000; Rakhshani et al. 2007a; Rakhshani 2012; Jafari-Ahmadabadi et al. 2011; Jafari-Ahmadabadi and Modarres 2012; Nazari et al. 2012; Barahoei et al. 2013),

*Phorodon humuli* (Schrank) (Rakhshani et al. 2007a), *Rhopalosiphum maidis* Fitch (Rakhshani et al. 2007a, 2008b; Nazari et al. 2012; Barahoei et al. 2010, 2012, 2013), *Rhopalosiphum padi* (L.) (Rakhshani et al. 2007a, 2008b; Barahoei et al. 2013), *Schizaphis graminum* (Rondani) (Rakhshani et al. 2007a, 2008b; Nazari et al. 2012; Barahoei et al. 2013), *Sitobion avenae* (F.) (Rakhshani et al. 2007a, 2008b; Barahoei et al. 2013), *Uroleucon cichorii* (Koch) (Rakhshani et al. 2007a), *Uroleucon compositae* (Theobald) (Rakhshani et al. 2007a; Barahoei et al. 2013), *Uroleucon jaceae* (L.) (Rakhshani et al. 2007a), *Uroleucon sonchi* (L.) (Hem.: Aphididae) (Rakhshani et al. 2007a, 2012b; Talebi et al. 2009; Nazari et al. 2012; Barahoei et al. 2010, 2012, 2013).

#### ***Praon yomenae* Takada, 1968**

General distribution: Palaearctic and Oriental. Distribution in Iran: Tehran, Zanzan (Rakhshani et al. 2007a), Alborz (Rakhshani et al. 2007a; Talebi et al. 2009), Isfahan (Rakhshani et al. 2007a; Talebi et al. 2009; Barahoei et al. 2013), Kerman (Barahoei et al. 2010, 2012, 2013), Hamadan (Nazari et al. 2012), North Khorasan (Rakhshani et al. 2012b).

Hosts: *Uroleucon acroptilidis* Kadyrbekov, Renxin and Shao (Barahoei et al. 2010, 2012, 2013), *Uroleucon carthami* (Hille Ris Lambers) (Barahoei et al. 2013), *Uroleucon cichorii* (Koch) (Barahoei et al. 2010, 2012, 2013), *Uroleucon chondrillae* (Nevsky) (Rakhshani et al. 2007a; Nazari et al. 2012), *Uroleucon compositae* (Theobald) (Rakhshani et al. 2007a), *Uroleucon jaceae* (L.) (Rakhshani et al. 2007a; Barahoei et al. 2010, 2012, 2013), *Uroleucon sonchi* (L.) (Rakhshani et al. 2007a, 2012b; Talebi et al. 2009; Barahoei et al. 2010, 2012, 2013), *Uroleucon tortuosissimae* Rezwani and Lampel (Hem.: Aphididae) (Barahoei et al. 2013).

Remarks: Evidences from association of *Praon dorsale* (Haliday, 1833) is referring to *Praon yomenae*, because of *Praon dorsale* is specific parasitoid on *Coryllobium avellana* L.

**Subfamily Blacinae Förster, 1862****Tribe Blacini Förster, 1862*****Blacus (Blacus) bovistae* Haeselbarth, 1973**

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012).

***Blacus (Blacus) errans* (Nees, 1811)**

General distribution: Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a).

***Blacus (Blacus) exilis* (Nees, 1811)**

General distribution: Palaearctic and Nearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012), Alborz, Mazandaran (Farahani *et al.* 2013d).

***Blacus (Blacus) filicornis* Haeselbarth, 1973**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c).

***Blacus (Blacus) hastatus* Haliday, 1835**

General distribution: Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a), Semnan (Naderian *et al.* 2012).

***Blacus (Blacus) humilis* (Nees, 1811)**

General distribution: Palaearctic, Nearctic and Oriental.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012), Guilan (Farahani *et al.* 2013d).

***Blacus (Blacus) interstitialis* Ruthe, 1861**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c; Farahani *et al.* 2013d).

***Blacus (Blacus) paganus* Haliday, 1835**

General distribution: Palaearctic and Nearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a), West Azarbaijan (Rastegar *et al.* 2012).

***Blacus (Blacus) stelfoxi* Haeselbarth, 1973**

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012).

***Blacus (Ganychorus) armatulus* Ruthe, 1861**

General distribution: Palaearctic and Nearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c; Farahani *et al.* 2013d), Qazvin, Mazandaran (Farahani *et al.* 2013d).

***Blacus (Ganychorus) diversicornis* (Nees, 1834)**

General distribution: Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a).

***Blacus (Ganychorus) maculipes* Wesmael, 1835**

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012).

***Blacus (Ganychorus) ruficornis* (Nees, 1811)**

General distribution: Palaearctic, Nearctic, Neotropical and Oriental.

Distribution in Iran: Alborz, Guilan, Qazvin, Mazandaran (Farahani *et al.* 2013d).

***Blacus (Hysterobolus) nixoni* Haeselbarth, 1973**

General distribution: Palaearctic.

Distribution in Iran: Guilan, Mazandaran (Farahani *et al.* 2013d).

***Blacus (Tarpheion) achterbergi* Haeselbarth, 1976**

General distribution: Palaearctic.

Distribution in Iran: Mazandaran (Farahani *et al.* 2013d).

**Subfamily Brachistinae Förster, 1862****Tribe Brachistini Förster, 1862*****Eubazus (Brachistes) minutus* (Ratzeburg, 1848)**

General distribution: Palaearctic.

Distribution in Iran: East Azarbaijan (Gadallah and Ghahari 2013a).

***Eubazus (Brachistes) tibialis* (Haliday, 1835)**

General distribution: Palaearctic.

Distribution in Iran: Khorasan Razavi (Samin *et al.* 2011), Semnan (Ghahari and Gadallah 2015; Samin 2015).

***Foersteria longicauda* van Achterberg, 1990**

General distribution: Iran and Turkey.

Distribution in Iran: West Azarbaijan (Ghahari and Fischer 2011a), Kuhgiloyeh & Boyerahmad (Samin *et al.* 2015b).

***Schizoprymnus angustatus* (Herrich-Schäffer, 1838)**

General distribution: Palaearctic.

Distribution in Iran: Golestan (Samin *et al.* 2011), Semnan (Samin 2015).

***Schizoprymnus elongatus* (Szépligeti, 1898)**

General distribution: Palaearctic.

Distribution in Iran: Ardabil (Ghahari and Fischer 2011a), Golestan (Samin *et al.* 2015).

***Schizoprymnus excisus* (Snoflák, 1953)**

General distribution: Palaearctic.

Distribution in Iran: Kerman (Ghahari *et al.* 2010b), Guilan (Ghahari and Fischer 2011b), Golestan (Samin *et al.* 2015).

***Schizoprymnus nigripes* (Thomson, 1892)**

General distribution: Palaearctic.

Distribution in Iran: Sistan & Baluchestan (Samin *et al.* 2011), Golestan (Kalaleh (Samin 2015).

***Schizoprymnus obscurus* (Nees, 1816)**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Telenga 1941; Hellén 1958), Isfahan (Ghahari *et al.* 2011c), Guilan (Ghahari *et al.* 2012c).

***Schizoprymnus pallidipennis* (Herrich-Schäffer, 1838)**

General distribution: Palaearctic and Oriental.

Distribution in Iran: Mazandaran (Ghahari and Fischer 2011b; Sakenin *et al.* 2012).

***Schizoprymnus parvus* (Thomson, 1892)**

General distribution: Palaearctic.

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c), Khorasan Razavi (Samin *et al.* 2011), Ardabil, West Azarbaijan (Rastegar *et al.* 2012), Charmahal & Bakhtiari (Samin *et al.* 2015b).

***Schizoprymnus pullatus* (Dahlbom, 1833)**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Tobias 1986, reported as *Schizoprymnus globosus*).

***Schizoprymnus terebralis* (Snoflák, 1953)**

General distribution: Palaearctic.

Distribution in Iran: East Azarbaijan (Sakenin *et al.* 2009a), Isfahan (Ghahari *et al.* 2010b), Fars (Samin *et al.* 2015b).

***Triaspis complanellae* (Hartig, 1847)**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c, reported as *Triaspis flavipes*).

***Triaspis floricola* (Wesmael, 1835)**

General distribution: Palaearctic.

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c).

***Triaspis lugubris* Snoflák, 1953**

General distribution: Palaearctic.

Distribution in Iran: Mazandaran (Ghahari and Fischer 2011b; Sakenin *et al.* 2012), Kuhgiloyeh & Boyerahmad (Samin *et al.* 2015b).

***Triaspis obscurella* (Nees, 1816)**

General distribution: Palaearctic.

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c), East Azarbaijan (Rastegar *et al.* 2012).

***Triaspis pallipes* (Nees, 1816)**

General distribution: Palaearctic and Oriental.

Distribution in Iran: Ardabil (Gadallah and Ghahari 2013a).

***Triaspis thoracica* (Curtis, 1860)**

General distribution: Palaearctic and Neotropical.

Distribution in Iran: Mazandaran, Tehran (Shahhosseini and Kamali 1989, reported as *Triaspis thoracicus*).

Host: *Bruchus rufimanus* Boheman (Col.: Chrysomelidae) (Shahhosseini and Kamali 1989).

**Subfamily Braconinae Nees, 1811****Tribe Aphrastobraconini Ashmead, 1900*****Iphiaulax hians* Pérez, 1907**

General distribution: Iran and Oman.

Distribution in Iran: No specific locality cited (Telenga 1936).

***Iphiaulax impeditor* (Kokujev, 1898)**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Fahringer 1926).

***Iphiaulax impostor* (Scopoli, 1763)**

General distribution: Afrotropical, Palaearctic and Oriental.

Distribution in Iran: East Azarbaijan (Ghahari *et al.* 2009a).

***Iphiaulax mactator* (Klug, 1817)**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Tobias 1976, 1986).

***Iphiaulax mirabilis* (Hedwig, 1957)**

General distribution: Iran.

Distribution in Iran: Sistan & Baluchestan (Hedwig 1957).

***Iphiaulax perezii* (Fahringer, 1926)**

General distribution: Iran and Oman.

Distribution in Iran: No specific locality cited (Telenga 1936).

***Megalommum pistacivora* van Achterberg & Mehrnejad, 2011**

General distribution: Iran.

Distribution in Iran: Kerman (van Achterberg and Mehrnejad 2011).

**Tribe Braconini Nees, 1811*****Atanycolus ivanovi* (Kokujev, 1898)**

General distribution: Palaearctic.

Distribution in Iran: Alborz (Shojai 1968; Zargar *et al.* 2014a, reported as *Atanycolus ivanovi*), Kordestan, Marzaki, Semnan, Tehran (Shojai 1963, 1968; Dastgheyb Beheshti 1980; Davatchi and Shojai 1969; Radjabi 1976, 1991, reported as *Atanycolus sculpturatus* (Thomson, 1892)), Tehran (Zargar *et al.* 2014a, reported as *A. ivanovi*), Fars (Lashkari Bod *et al.* 2011a, reported as *A. sculpturatus*), Ilam (Ghahari *et al.* 2011a, reported as *A. sculpturatus*), Golestan (Ghahari and Fischer 2011c), Guilan, Qazvin (Zargar *et al.* 2014a, reported as *A. ivanovi*).

***Baryproctus zarudnianus* Telenga, 1936**

General distribution: Iran and Palestine.

Distribution in Iran: No specific locality cited (Telenga 1936; Shenefelt 1978).

***Bracon (Asiabracon) quadrimaculatus* Telenga, 1936**

General distribution: Palaearctic.

Distribution in Iran: Hormozgan (Ameri *et al.* 2014c), Mazandaran (Zargar *et al.* 2015).

***Bracon (Bracon) chivensis* Telenga, 1936**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Capek and Hofmann 1997).

***Bracon (Bracon) fulvipes* Nees, 1834**

General distribution: Palaearctic.

Distribution in Iran: East Azarbaijan (Ghahari *et al.* 2009a), Mazandaran (Ghahari *et al.* 2010a; Zargar *et al.* 2015), Guilan (Ghahari and Fischer 2011b), no specific locality cited (Papp 2012), Semnan (Ghahari and Gadallah 2015).

***Bracon (Bracon) gusaricus* Telenga, 1933**

General distribution: Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a), Hormozgan (Ameri *et al.* 2014c).

***Bracon (Bracon) intercessor* Nees, 1834**

General distribution: Palaearctic.

Distribution in Iran: Khorasan Razavi (Ghahari *et al.* 2009b), Ilam (Ghahari *et al.* 2011a), Tehran (Ghahari *et al.* 2011d; Zargar *et al.* 2015), Semnan (Naderian *et al.* 2012), Lorestan (Ghahari *et al.* 2012a), Hormozgan (Ameri *et al.* 2014c).

Remarks: The subspecies *Bracon (Bracon) intercessor laetus* (Wesmael, 1838) was reported from Iran by Hedwig (1957), Papp (2012) and Zargar *et al.* (2015).

***Bracon (Bracon) kozak* Telenga, 1936**

General distribution: Palaearctic.

Distribution in Iran: Hormozgan (Ameri *et al.* 2014c).

***Bracon (Bracon) lefroyi* (Dudgeon & Gough, 1914)**

General distribution: India, Iran and Egypt.

Distribution in Iran: Fars (Hussain *et al.* 1977).



Host: *Earias insulana* Boisduval (Lep.: Nolidae) (Hussain *et al.* 1977).

***Bracon (Bracon) leptus* Marshall, 1897**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2009a; Ghahari *et al.* 2012c), North Khorasan (Ghahari *et al.* 2009d), Qazvin (Ghahari *et al.* 2011b), Golestan (Ghahari and Fischer 2011c), Hormozgan (Ameri *et al.* 2014c).

***Bracon (Bracon) longicollis* (Wesmael, 1838)**

General distribution: Palaearctic and Oriental.

Distribution in Iran: No specific locality cited (Tobias 1976, 1986; Beyarslan *et al.* 2005).

***Bracon (Bracon) luteator* Spinola, 1808**

General distribution: Palaearctic.

Distribution in Iran: Ilam (Gharali 2004, on safflower shoot flies; Lotfalizadeh and Gharali 2014), no specific locality cited (Beyarslan *et al.* 2005), Kermanshah (Ghahari and Fischer 2012), East Azarbaijan, Chaharmahal-e-Bakhtiari (Lotfalizadeh and Gharali 2014, on *Carthamus tinctorius*).

Hosts: Safflower shoot flies (Dip.: Tephritidae) (Gharali 2004; Lotfalizadeh and Gharali 2014), *Urophora* sp. (Dip.: Tephritidae) (Ghahari and Fischer 2012).

***Bracon (Bracon) mariae* Dalla Torre, 1898**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Tobias 1961, 1976), Guilan (Ghahari *et al.* 2012c), Semnan (Ghahari and Gadallah 2015).

***Bracon (Bracon) minutator* (Fabricius, 1798)**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Tobias 1961, 1976; Fallahzadeh and Saghaei 2010), Isfahan (Ghahari *et al.* 2011c, reported as *Bracon (Glabrobracon) minutator*), Kermanshah (Ghahari and Fischer 2012), Hormozgan (Ameri *et al.* 2014c).

Host: *Anthonomus pomorum* (L.) (Col.: Curculionidae) (Ghahari and Fischer 2012).

***Bracon (Bracon) nigratus* (Wesmael, 1838)**

General distribution: Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a), Hormozgan (Ameri *et al.* 2014c).

Host: *Zygaena achilleae* Esper (Lep.: Zygaenidae) (Ghahari *et al.* 2012a).

***Bracon (Bracon) pectoralis* (Wesmael, 1838)**

General distribution: Nearctic (introduced) and Palaearctic.

Distribution in Iran: Golestan (Ghahari *et al.* 2009d; Ghahari *et al.* 2010a), Isfahan (Ghahari *et al.* 2011c), Ardabil (Ghahari and Fischer 2011b), Hormozgan (Ameri *et al.* 2015), Guilan, Qazvin (Zargar *et al.* 2015).

***Bracon (Bracon) robustus* Hedwig, 1961**

General distribution: Afghanistan and Iran.

Distribution in Iran: Khorasan Razavi (Samin *et al.* 2011), Golestan (Samin *et al.* 2015).

***Bracon (Bracon) scabriusculus* Dalla Torre, 1898**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Telenga 1936).

***Bracon (Bracon) schmidti* Kokujev, 1912**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Telenga 1936; Tobias 1976, 1986; Shenefelt 1978; Papp 2012).

***Bracon (Bracon) subrugosus* Szépligeti, 1901**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Papp 2012), Lorestan (Ghahari *et al.* 2012a, reported as *Bracon subglaber*).

Host: *Ceutorhynchus* sp. (Col.: Curculionidae) (Ghahari *et al.* 2012a).

***Bracon (Bracon) trucidator* Marshall, 1888**

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari *et al.* 2010b), Qazvin (Ghahari *et al.* 2011b), Ardabil (Ghahari and Fischer 2011b), Hamadan (Samin 2015).

***Bracon (Bracon) variegator* Spinola, 1808**

General distribution: Nearctic (introduced), Oceanic, Oriental and Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012), Hormozgan (Ameri *et al.*

2014c), Qazvin (Zargar *et al.* 2015), Semnan (Ghahari and Gadallah 2015).

Host: *Anarsia lineatella* Zeller (Lep.: Gelechiidae) (Ghahari and Fischer 2012).

***Bracon (CyanopteroBracon) illyricus Marshall, 1888***

General distribution: Palaearctic.

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c), Guilan (Ghahari *et al.* 2012c).

Host: *Larinus turbinatus* Gyllenhal (Col.: Curculionidae) (Ghahari *et al.* 2012c).

***Bracon (CyanopteroBracon) sabulosus Szépligeti, 1896***

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Telenga 1936; Tobias 1976, 1986), East Azarbaijan (Ghahari *et al.* 2009a), Golestan (Ghahari and Fischer 2011b).

***Bracon (GlabroBracon) abbreviator Nees, 1834***

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Tobias 1961, 1976), Qazvin (Ghahari *et al.* 2011b), Semnan (Ghahari and Gadallah 2015).

***Bracon (GlabroBracon) ahngeri Telenga, 1936***

General distribution: Oriental and Palaearctic.

Distribution in Iran: Hormozgan (Ameri *et al.* 2015).

***Bracon (GlabroBracon) angustiventris Tobias, 1957***

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012).

***Bracon (GlabroBracon) atrator Nees, 1834***

General distribution: Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c), West Azarbaijan (Samin *et al.* 2014), Hormozgan (Ameri *et al.* 2015).

***Bracon (GlabroBracon) chrysostigma Greese, 1928***

General distribution: Palaearctic.

Distribution in Iran: Golestan (Ghahari and Fischer 2011c).

***Bracon (GlabroBracon) delibator Haliday, 1833***

General distribution: Palaearctic.

Distribution in Iran: Ilam (Ghahari *et al.* 2011a), Alborz (Zargar *et al.* 2015), Semnan (Ghahari and Gadallah 2015, reported as *Bracon (PalpiBracon) delibator*).

***Bracon (GlabroBracon) dilatus Papp, 1999***

General distribution: Iran and Iraq.

Distribution in Iran: Mazandaran (Papp 1999).

***Bracon (GlabroBracon) dolichurus Marshall, 1897***

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012).

***Bracon (GlabroBracon) epitriptus Marshall, 1885***

General distribution: Palaearctic.

Distribution in Iran: Fars (Lashkari Bod *et al.* 2010, 2011a), Khorasan Razavi (Samin *et al.* 2011, reported as *Bracon (OrthoBracon) epitriptus*), Isfahan (Ghahari *et al.* 2011c), East Azarbaijan (Rastegar *et al.* 2012), Hormozgan (Ameri *et al.* 2014c), Mazandaran (Zargar *et al.* 2015), Kuhgiluyeh & Boyerahmad (Samin *et al.* 2015b, reported as *Bracon (OrthoBracon) epitriptus*).

***Bracon (GlabroBracon) helleni Telenga, 1936***

General distribution: Palaearctic.

Distribution in Iran: West Azarbaijan (Ghahari and Fischer 2011a), Golestan (Samin *et al.* 2015).

***Bracon (GlabroBracon) hemiflavus Szépligeti, 1901***

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Papp 2008).

***Bracon (GlabroBracon) immutator Nees, 1834***

General distribution: Palaearctic.

Distribution in Iran: Hormozgan (Ameri *et al.* 2014c).

***Bracon (GlabroBracon) kirgisorum Telenga, 1936***

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Sakenin *et al.* 2011), Golestan (Ghahari and Fischer 2011b; Sakenin *et al.* 2012).

***Bracon (Glabrobracon) lividus* Telenga, 1936**

General distribution: Palaearctic.

Distribution in Iran: East Azarbaijan (Ghahari and Fischer 2011a), Ardabil (Ghahari and Fischer 2011b), Golestan (Ghahari and Fischer 2011c), Khuzestan (Samin *et al.* 2015b).

***Bracon (Glabrobracon) nigripilosus* Tobias, 1957**

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012).

***Bracon (Glabrobracon) nigriventris* (Wesmael, 1838)**

General distribution: Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a).

***Bracon (Glabrobracon) obscurator* Nees, 1811**

General distribution: Palaearctic.

Distribution in Iran: Qazvin (Ghahari *et al.* 2011b), Hormozgan (Ameri *et al.* 2015).

***Bracon (Glabrobracon) parvulus* (Wesmael, 1838)**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Golestan (Ghahari and Fischer 2011c), Mazandaran (Zargar *et al.* 2014b; 2015).

***Bracon (Glabrobracon) picticornis* (Wesmael, 1838)**

General distribution: Oriental and Palaearctic.

Distribution in Iran: No specific locality cited (Papp 2012), Kermanshah (Ghahari and Fischer 2012), Hormozgan (Ameri *et al.* 2015), Mazandaran (Zargar *et al.* 2015).

***Bracon (Glabrobracon) pineti* Thomson, 1892**

General distribution: Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a).

***Bracon (Glabrobracon) planinotus* Tobias, 1957**

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari *et al.* 2010b), Guilan (Ghahari *et al.* 2012c), Golestan (Samin *et al.* 2015).

***Bracon (Glabrobracon) popovi* Telenga, 1936**

General distribution: Palaearctic.

Distribution in Iran: Mazandaran (Ghahari *et al.* 2011d).

***Bracon (Glabrobracon) praetermissus* Marshall, 1885**

General distribution: Palaearctic.

Distribution in Iran: Fars (Lashkari Bod *et al.* 2010, 2011a), Guilan (Ghahari *et al.* 2012c).

Host: *Biorhiza pallida* (Olivier) (Hym.: Cynipidae) (Ghahari *et al.* 2012c).

***Bracon (Glabrobracon) tekkensis* Telenga, 1936**

General distribution: Palaearctic.

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c).

***Bracon (Glabrobracon) triangularis* Nees, 1834**

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012, reported as *Bracon (Leucobracon) triangularis*).

***Bracon (Glabrobracon) tschitscherini* Kokujev, 1904**

General distribution: Palaearctic.

Distribution in Iran: West Azarbaijan (Ghahari and Fischer 2011a), Golestan (Ghahari and Fischer 2011b), Kordestan (Samin 2015).

***Bracon (Glabrobracon) variator* Nees, 1811**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Papp 1966, 1967, 2012; Capek and Hofmann 1997; Beyarslan *et al.* 2005), Guilan (Ghahari and Fischer 2011b), Hormozgan (Ameri *et al.* 2014c), West Azarbaijan (Samin *et al.* 2014), Alborz, Qazvin, Tehran (Zargar *et al.* 2015).

Remarks: The subspecies *Bracon (Glabrobracon) variator bipartitus* (Wesmael, 1838) and *B. (Glabrobracon) variator maculiger* (Wesmael, 1838) were also reported from Iran (Capek and Hofmann 1997; Zargar *et al.* 2015; Ghahari *et al.* 2011c; Rastegar *et al.* 2012).

***Bracon (Lucobracon) apricus* Schmiedeknecht, 1897**

General distribution: Palaearctic.

Distribution in Iran: Semnan (Ghahari *et al.* 2011d).

***Bracon (Lucobracon) brevitemporis* Tobias, 1959**

General distribution: Iran, Kazakhstan and Turkey.

Distribution in Iran: West Azarbaijan (Rastegar *et al.* 2012, reported as *Bracon brevitemporalis*), Lorestan (Ghahari *et al.* 2012a, reported as *B. brevitemporalis*).

***Bracon (Lucobracon) erraticus* (Wesmael, 1838)**

General distribution: Afrotropical and Palaearctic.

Distribution in Iran: Fars (Lashkari Bod *et al.* 2011a, reported as *Bracon praetermissus*), no specific locality cited (Papp 2012, reported as *B. erraticus* var. *confinis*), Guilan (Ghahari *et al.* 2012c, reported as *Bracon praetermissus*), Hormozgan (Ameri *et al.* 2014c), Alborz (Zargar *et al.* 2015).

Remarks: The subspecies *Bracon (Lucobracon) erraticus superciliosus* (Wesmael, 1838) was reported by Ghahari *et al.* (2011b) and Papp (2012). Papp (2012) was reported this subspecies as *B. erraticus* var. *superciliosus*.

***Bracon (Lucobracon) femoralis* (Brullé, 1832)**

General distribution: Palaearctic.

Distribution in Iran: Mazandaran (Ghahari *et al.* 2011d), Alborz (Zargar *et al.* 2015).

***Bracon (Lucobracon) fortipes* (Wesmael, 1838)**

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012), no specific locality cited (Papp 2012), Hormozgan (Ameri *et al.* 2014c), Alborz, Qazvin (Zargar *et al.* 2015).

***Bracon (Lucobracon) grandiceps* Thomson, 1892**

General distribution: Palaearctic.

Distribution in Iran: Semnan (Naderian *et al.* 2012), Lorestan (Ghahari *et al.* 2012a).

***Bracon (Lucobracon) guttiger* (Wesmael, 1838)**

General distribution: Palaearctic.

Distribution in Iran: Hamadan, Zanjan (Ghahari *et al.* 2010b), Qazvin (Samin 2015).

***Bracon (Lucobracon) humidus* Tobias, 1976**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c).

***Bracon (Lucobracon) larvicida* (Wesmael, 1838)**

General distribution: Palaearctic.

Distribution in Iran: Golestan (Ghahari and Fischer 2011c), Lorestan (Ghahari *et al.* 2012a).

***Bracon (Lucobracon) meyeri* Telenga, 1936**

General distribution: Palaearctic.

Distribution in Iran: Khorasan Razavi (Samin *et al.* 2011), Guilan (Ghahari *et al.* 2012c), Golestan (Samin *et al.* 2015).

***Bracon (Lucobracon) punctithorax* Tobias, 1959**

General distribution: Iran, Kazakhstan and Turkey.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012).

***Bracon (Lucobracon) sphaerocephalus* Szépligeti, 1901**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Papp 2005).

***Bracon (Lucobracon) suchorukovi* Telenga, 1936**

General distribution: Palaearctic.

Distribution in Iran: East Azarbaijan (Ghahari *et al.* 2009a, reported as *Bracon sabulosus*), Guilan (Ghahari *et al.* 2012c; Sakenin *et al.* 2012).

***Bracon (Lucobracon) thuringiacus* Schmiedeknecht, 1897**

General distribution: Palaearctic.

Distribution in Iran: West Azarbaijan (Rastegar *et al.* 2012), Lorestan (Ghahari *et al.* 2012a).

***Bracon (Ophthalmobracon) ophthalmicus* Telenga, 1933**

General distribution: Palaearctic.

Distribution in Iran: Hormozgan (Ameri *et al.* 2015).

***Bracon (Orthobracon) exhilarator* Nees, 1834**

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012, reported as *Bracon (Bracon) exhilarator*).

Host: *Apion* sp. (Col.: Apionidae) (Ghahari and Fischer 2012).

***Bracon (Orthobracon) persiangulfensis* Ameri, Beyarslan & Talebi, 2014**

General distribution: Iran.

Distribution in Iran: Hormozgan (Ameri *et al.* 2014c).

***Bracon (Osculobracon) ciscaucasicus* Telenga, 1936**

General distribution: Palaearctic.

Distribution in Iran: Ardabil (Rastegar *et al.* 2012), Lorestan (Ghahari *et al.* 2012a).

***Bracon (Osculobracon) erzurumiensis* Beyarslan, 2002**

General distribution: Iran and Turkey.

Distribution in Iran: Hormozgan (Ameri *et al.* 2015).

***Bracon (Osculobracon) osculator* Nees, 1811**

General distribution: Oriental and Palaearctic.

Distribution in Iran: East Azarbaijan (Ghahari and Fischer 2011a), Ardabil (Ghahari and Fischer 2011b), no specific locality cited (Papp 2012, reported as *Bracon osculator* var. *temporalis*), Qazvin (Zargar *et al.* 2015), Semnan (Ghahari and Gadallah 2015), Hormozgan (Ameri *et al.* 2015), Fars (Samin *et al.* 2015b, reported as *B. (Glabrobracon) osculator*).

Remarks: The subspecies *Bracon (Osculobracon) osculator temporalis* Telenga, 1936 was reported from Iran by Papp (2012).

***Bracon (Pigeria) piger* (Wesmael, 1838)**

General distribution: Nearctic and Palaearctic.

Distribution in Iran: Mazandaran (Ghahari and Fischer 2011b; Sakenin *et al.* 2012),

Guilan (Ghahari *et al.* 2012c; Zargar *et al.* 2015), Hormozgan (Ameri *et al.* 2014c), Charmahal & Bakhtiari (Samin *et al.* 2015b).

***Bracon (Rostrobracon) urinator* (Fabricius, 1798)**

General distribution: Afrotropical, Oriental and Palaearctic.

Distribution in Iran: No specific locality cited (Telenga 1936; Beyarslan *et al.* 2005), Mazandaran (Ghahari *et al.* 2010b; Ghahari and Fischer 2011b), Golestan (Ghahari and Fischer 2011c).

***Habrobracon concolorans* (Marshall, 1900)**

General distribution: Oriental and Palaearctic.

Distribution in Iran: No specific locality cited (Haeselbarth 1983, reported as *Habrobracon nigricans*), Fars (Lashkari Bod *et al.* 2011a, reported as *Habrobracon nigricans*), Hormozgan (Ameri *et al.* 2014, reported as *Bracon (Habrobracon) nigricans*).

***Habrobracon crassicornis* (Thomson, 1892)**

General distribution: Palaearctic.

Distribution in Iran: Ilam (Ghahari *et al.* 2011a).

***Habrobracon didemie* (Beyarslan, 2002)**

General distribution: Iran and Turkey.

Distribution in Iran: Hormozgan (Ameri *et al.* 2015).

***Habrobracon excisus* Tobias, 1957**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Haeselbarth 1983).

***Habrobracon hebetor* (Say, 1836)**

General distribution: Afrotropical, Australasian, Nearctic, Neotropical, Oceanic, Oriental and Palaearctic.

Distribution in Iran: No specific locality cited (Haeselbarth 1983), Khuzestan (Siahpoush *et al.* 1993; Habibpour *et al.* 2002; Moodi *et al.* 2004; Shahabi and Rajabpour 2015), Kermanshah (Noori 1988, 1994), Kerman (Modarres Awal 1997), Bushehr (Karampour and Fasihi 2004, reported as *Bracon brevicornis*), Ilam (Gharali 2004, reported as *Bracon*

*brevicornis*; Lotfalizadeh and Gharali 2014, reported as *Bracon brevicornis*, Semnan (Dezianian and Jalali 2004; Ghahari and Gadallah 2015), Isfahan (Bagheri and Nematollahi 2006; Afiunizadeh Isfahani and Karimzadeh Isfahani 2010; Nobakht *et al.* 2015), Qom (Kishani Farahani *et al.* 2008; Norouzi *et al.* 2008), Markazi (Saveh), Tehran (Varamin) (Kishani Farahani *et al.* 2008), West Azarbaijan (Akbarzadeh Shoukat *et al.* 2008; Adldoost 2010), East Azarbaijan (Ghahari *et al.* 2011d; Lotfalizadeh and Gharali 2014), Hormozgan (Ameri *et al.* 2014c).

Hosts: *Acanthiophilus helianthi* (Rossi) (Dip.: Tephritidae) (Bagheri and Nematollahi 2006), *Batrachedra amydraula* Meyrick (Lep.: Batrachedridae) (Karampour and Fasihi 2004), *Ectomyelois ceratoniae* (Zeller) (Lep.: Pyralidae) (Kishani Farahani *et al.* 2008; Norouzi *et al.* 2008; Nobakht *et al.* 2015), *Heliothis virescens* (Hufnagel) (Lep.: Noctuidae) Adldoost 2010), *Heliothis* sp., *Chloridea* sp. (Lep.: Noctuidae) (Noori 1988, 1994; Moodi *et al.* 2004), *Lobesia botrana* Denis & Schiffermüller (Lep.: Tortricidae) (Akbarzadeh Shoukat *et al.* 2008), *Mythimna loreyi* (Duponchel) (Lep.: Noctuidae) (Siahpoush *et al.* 1993), *Phthorimaea operculella* Zeller (Lep.: Gelechiidae) (Dezianian and Jalali 2004; Shahabi and Rajabpour 2015), *Plutella xylostella* L. (Lep.: Plutellidae) (Afiunizadeh Isfahani and Karimzadeh Isfahani 2010), safflower shoot flies (Dip.: Tephritidae) (Gharali 2004; Lotfalizadeh and Gharali 2014).

Remarks: *Habrobracon brevicornis* and *H. hebetor* are considered to be synonym (Yu *et al.* 2012), but van Achterberg and Walker (1998) believe that they are two valid species.

#### ***Habrobracon iranicus* Fischer, 1972**

General distribution: Iran.

Distribution in Iran: No specific locality cited (Fischer 1972), Tehran (Shojai 1989).

Hosts: *Cydia pomonella* L. (Lep.: Tortricidae), *Heliothis dipsacea* L. (Lep.: Noctuidae) and

*Hyponomeuta malinellus* Zeller (Lep.: Yponomeutidae) (Shojai 1989).

#### ***Habrobracon radialis* Telenga, 1936**

General distribution: Palaearctic.

Distribution in Iran: Semnan (Dezianian and Quick 2006, reported as *Bracon* (*Habrobracon*) aff. *radialis*), Golestan (Ghahari and Fischer 2011b; Sakenin *et al.* 2012), Guilan (Ghahari *et al.* 2012c).

Host: *Phthorimaea operculella* Zeller (Lep.: Gelechiidae) (Dezianian and Quick 2006).

#### ***Habrobracon stabilis* (Wesmael, 1838)**

General distribution: Nearctic, Oriental and Palaearctic.

Distribution in Iran: Qazvin (Ghahari *et al.* 2011b).

#### ***Habrobracon telengai* Mulyarskaya, 1955**

General distribution: Palaearctic.

Distribution in Iran: Hormozgan (Ameri *et al.* 2014c).

#### ***Pseudovipio castrator* (Fabricius, 1798)**

General distribution: Afrotropical and Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a), West Azarbaijan (Samin *et al.* 2014), Hormozgan, Qazvin (Zargar *et al.* 2014a).

Host: *Plagionotus arcuatus* (L.) (Col.: Cerambycidae) (Ghahari *et al.* 2012a).

#### ***Pseudovipio inscriptor* (Nees, 1834)**

General distribution: Palaearctic.

Distribution in Iran: Ilam (Ghahari *et al.* 2011a), Guilan (Ghahari *et al.* 2012c), Hormozgan, Qazvin (Zargar *et al.* 2014a).

Host: *Ostrinia nubilalis* Hübner (Lep.: Noctuidae) (Ghahari *et al.* 2012c).

#### ***Pseudovipio kirmanensis* (Kokujev, 1907)**

General distribution: Afghanistan, Iran and Turkmenistan.

Distribution in Iran: No specific locality cited (Kokujev 1907, reported as *Vipio kirmanensis*; Fahringer 1926; Telenga 1936), Sistan & Bluchestan (Hedwig 1957).

***Pseudovipio nigrirostris* (Kokujev, 1907)**

General distribution: Iran.

Distribution in Iran: No specific locality cited (Kokujev 1907, reported as *Vipio nigrirostris*; Fahringer 1926).

***Pseudovipio schaeuffelei* (Hedwig, 1957)**

General distribution: Iran.

Distribution in Iran: South Khorasan (Hedwig 1957, reported as *Bracon laetus schaeuffelei*).

***Pseudovipio tataricus* (Kokujev, 1898)**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Telenga 1936; Shenefelt 1978).

***Rhadinobracon nigrocephalus* (Hedwig, 1957)**

General distribution: Iran.

Distribution in Iran: Sistan & Baluchestan (Hedwig 1957, reported as *Pseudovipio nigrocephalus*).

***Rhadinobracon zarudnyi* (Telenga, 1936)**

General distribution: Iran.

Distribution in Iran: No specific locality cited (Telenga 1936; Shenefelt 1978, reported as *Heliobracon zarudnyi*).

***Vipio appellator* (Nees, 1834)**

General distribution: Palaearctic.

Distribution in Iran: Tehran (Zargar *et al.* 2014a, reported as *Vipio striolatus* Telenga, 1936).

***Vipio striolatus* Telenga, 1936**

General distribution: Distribution in Iran: Tehran (Zargar *et al.* 2014a).

***Vipio humerator* (Costa, 1885)**

General distribution: Palaearctic.

Distribution in Iran: Golestan (Ghahari *et al.* 2009b), Ilam (Ghahari *et al.* 2011a).

***Vipio illusor* (Klug, 1817)**

General distribution: Palaearctic.

Distribution in Iran: Fars (Lashkari Bod *et al.* 2010, 2011a).

***Vipio intermedius* Szépligeti, 1896**

General distribution: Palaearctic.

Distribution in Iran: East Azarbaijan, West Azarbaijan (Rastegar *et al.* 2012), Lorestan

(Ghahari *et al.* 2012a), Semnan (Ghahari and Gadallah 2015).

***Vipio longicauda* (Boheman, 1853)**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c, reported as *Vipio nominator*).

***Vipio mlokoszewiczi* Kokujev, 1898**

General distribution: Palaearctic.

Distribution in Iran: Mazandaran (Ghahari *et al.* 2009a, reported as *Isomecus mlokoszewiczi*), Alborz, Qazvin, Tehran (Zargar *et al.* 2014a), Semnan (Ghahari and Gadallah 2015).

***Vipio nomioides* Shestakov, 1926**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Shestakov 1926; Telenga 1936), Alborz (Zargar *et al.* 2014a).

***Vipio sareptanus* Kawall, 1865**

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012).

***Vipio tentator* (Rossi, 1790)**

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012).

***Vipio terrefactor* (Villers, 1789)**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Szépligeti 1901, reported as *Vipio persica*).

Remarks: *Vipio terrefactor persica* Szépligeti, 1901 was reported as subspecies by Szépligeti (1901, reported as *Vipio persica*), Telenga (1936) and Tobias (1976, 1986).

***Vipio xanthurus* (Fahringer, 1926)**

General distribution: Iran.

Distribution in Iran: No specific locality cited (Fahringer 1926).

**Tribe Coeloidini Tobias, 1957*****Coeloides bostrichorum* Giraud, 1872**

General distribution: Palaearctic.

Distribution in Iran: Ardabil (Ghahari and Fischer 2011b).

Host: *Ips typographus* (L.) (Col.: Curculionidae) (Ghahari and Fischer 2011b).

***Coeloides rossicus* (Kokujev, 1902)**

General distribution: Nearctic and Palaearctic.  
Distribution in Iran: Khorasan Razavi (Samin *et al.* 2011), Golestan (Samin *et al.* 2015).

**Tribe Glyptomorphini Tobias, 1957**

***Glyptomorpha* (*Glyptomorpha*) *discolor* (Thunberg, 1822)**

General distribution: Palaearctic.  
Distribution in Iran: Golestan (Ghahari *et al.* 2009a).

***Glyptomorpha* (*Glyptomorpha*) *kaspariani* Tobias, 1976**

General distribution: Palaearctic.  
Distribution in Iran: Tehran (Zargar *et al.* 2014a).

***Glyptomorpha* (*Glyptomorpha*) *nachtshevanica* Tobias, 1976**

General distribution: Azerbaijan and Iran.  
Distribution in Iran: Fars (Lashkari Bod *et al.* 2010, 2011b).

***Glyptomorpha* (*Glyptomorpha*) *pectoralis* (Brullé, 1832)**

General distribution: Afrotropical, Oriental and Palaearctic.  
Distribution in Iran: No specific locality cited (Shestakov 1926; Telenga 1936; Tobias 1976; Capek and Hofmann 1997), Kermanshah (Ghahari and Fischer 2012), Guilan, Qazvin, Hormozgan (Zargar *et al.* 2014a).

Host: *Plagionotus arcuatus* (L.) (Col.: Cerambycidae) (Ghahari and Fischer 2012).

**Subfamily Cardiochilinae Ashmead, 1900**

***Cardiochiles fallax* Kokujev, 1895**

General distribution: Palaearctic.  
Distribution in Iran: Fars (Taghizadeh *et al.* 2013, on *Etiella zinckenella*), Tehran (Farahani *et al.* 2015c).  
Host: *Etiella zinckenella* Treitschke (Lep.: Pyralidae) (Taghizadeh *et al.* 2013).

***Cardiochiles fumatus* Telenga, 1949**

General distribution: Palaearctic.  
Distribution in Iran: Alborz, Tehran (Farahani *et al.* 2015c).

***Cardiochiles saltator* (Fabricius, 1781)**

General distribution: Oriental and Palaearctic.  
Distribution in Iran: Golestan (Telenga 1955, reported as *Cardiochiles brachialis* Rondani, 1877), Isfahan (Ghahari *et al.* 2011c).

***Cardiochiles shestakovi* Telenga, 1949**

General distribution: Palaearctic.  
Distribution in Iran: Yazd (Goldansaz *et al.* 1996; Shamszadeh 1998), Tehran (Farahani *et al.* 2015c).  
Host: *Epischidia caesariella* Hampson (Lep.: Pyralidae) (Goldansaz *et al.* 1996; Shamszadeh 1998).

***Cardiochiles tibialis* Hedwig, 1957**

General distribution: Iran.  
Distribution in Iran: Sistan & Baluchestan (Hedwig 1957).

***Cardiochiles triplus* Shenefelt, 1973**

General distribution: Iran.  
Distribution in Iran: Sistan & Baluchestan (Hedwig 1957), no specific locality cited (Shenefelt 1973).

***Pseudcardiochilus abnormipes* Hedwig, 1957**

General distribution: Iran.  
Distribution in Iran: Sistan & Baluchestan (Hedwig 1957).

**Subfamily Cheloninae Förster, 1862**

**Tribe Chelonini Förster, 1862**

***Ascogaster annularis* (Nees, 1816)**

General distribution: Palaearctic.  
Distribution in Iran: Alborz, Qazvin (Farahani *et al.* 2013a, 2014b).

***Ascogaster bicarinata* (Herrich-Schäffer, 1838)**

General distribution: Palaearctic.  
Distribution in Iran: No specific locality cited (Telenga 1941; Tobias 1976, 1986), Isfahan (Ghahari *et al.* 2011c), Semnan (Ghahari and Gadallah 2015).



***Ascogaster bimar* Tobias, 1986**

General distribution: Palaearctic.  
Distribution in Iran: Guilan (Farahani *et al.* 2014b).

***Ascogaster caucasica* Kokujev, 1895**

General distribution: Palaearctic.  
Distribution in Iran: Khuzestan (Huddleston 1984).

***Ascogaster dispar* Fahringer, 1934**

General distribution: Palaearctic.  
Distribution in Iran: No specific locality cited (Huddleston 1984).

***Ascogaster disparilis* Tobias, 1986**

General distribution: Iran, Russia and Turkey.  
Distribution in Iran: Guilan (Farahani *et al.* 2014b).

***Ascogaster excavata* Telenga, 1941**

General distribution: Palaearctic.  
Distribution in Iran: Alborz (Farahani *et al.* 2013a, 2014b).

***Ascogaster grahami* Huddleston, 1984**

General distribution: Oriental and Palaearctic.  
Distribution in Iran: Guilan, Mazandaran (Farahani *et al.* 2013a, 2014b).

***Ascogaster kasparyani* Tobias, 1976**

General distribution: Georgia, Greece and Iran.  
Distribution in Iran: Alborz, Qazvin, Tehran (Farahani *et al.* 2013a, 2014b).

***Ascogaster klugii* (Nees, 1816)**

General distribution: Palaearctic.  
Distribution in Iran: Mazandaran (Farahani *et al.* 2014b).

***Ascogaster quadridentata* Wesmael, 1835**

General distribution: Nearctic, Neotropical, Oceanic, Oriental and Palaearctic.  
Distribution in Iran: East Azarbaijan (Ranjbar Aghdam and Fathipour 2010), Kordestan (Ghahari *et al.* 2010b), Alborz, Guilan, Mazandaran (Farahani *et al.* 2013a, 2014b), West Azarbaijan (Akbarzadeh Shoukat *et al.* 2015), Khuzestan (Samin *et al.* 2015b).  
Hosts: *Cydia pomonella* L. (Lep.: Tortricidae) (Ranjbar Aghdam and Fathipour 2010),

*Lobesia botrana* Denis & Schiffermüller (Lep.: Tortricidae) (Akbarzadeh Shoukat *et al.* 2015).

***Ascogaster varipes* Wesmael, 1835**

General distribution: Palaearctic.  
Distribution in Iran: Alborz, Guilan, Mazandaran (Farahani *et al.* 2014b).

***Chelonus (Chelonus) annulatus* (Nees, 1816)**

General distribution: Palaearctic.  
Distribution in Iran: No specific locality cited (Telenga 1941), Guilan (Ghahari *et al.* 2012c).

***Chelonus (Chelonus) annulipes* Wesmael, 1835**

General distribution: Nearctic, Oriental and Palaearctic.  
Distribution in Iran: No specific locality cited (Telenga 1941; Tobias 1986), Alborz, Tehran, Guilan, Qazvin (Farahani *et al.* 2013a), Semnan (Ghahari and Gadallah 2015).

***Chelonus (Chelonus) armeniacus* Tobias, 1976**

General distribution: Armenia and Iran.  
Distribution in Iran: Alborz, Tehran, Qazvin (Farahani *et al.* 2013a).

***Chelonus (Chelonus) asiaticus* Telenga, 1941**

General distribution: Palaearctic.  
Distribution in Iran: Golestan (Ghahari *et al.* 2009a), Kermanshah (Ghahari and Fischer 2012).

***Chelonus (Chelonus) bidens* Tobias, 1972**

General distribution: Palaearctic.  
Distribution in Iran: Golestan (Ghahari *et al.* 2010a), Mazandaran (Ghahari *et al.* 2010a; Ghahari and Fischer 2011b; Sakenin *et al.* 2012), Lorestan (Ghahari *et al.* 2012a), Kordestan (Samin 2015).

***Chelonus (Chelonus) bonellii* (Nees, 1816)**

General distribution: Oriental and Palaearctic.  
Distribution in Iran: Tehran (Shahriari) (Farahani *et al.* 2013a).

***Chelonus (Chelonus) breviventris* Thomson, 1874**

General distribution: Palaearctic.  
Distribution in Iran: No specific locality cited (Papp 1997).

***Chelonus (Chelonus) canescens* Wesmael, 1835**  
General distribution: Palaearctic.

Distribution in Iran: East Azarbaijan (Ghahari *et al.* 2009a), Guilan, Mazandaran (Farahani *et al.* 2013a).

***Chelonus (Chelonus) carbonator* Marshall, 1885**  
General distribution: Oriental and Palaearctic.  
Distribution in Iran: Isfahan (Ghahari *et al.* 2011c).

***Chelonus (Chelonus) elongatus* Szépligeti, 1898**  
General distribution: Iran, Mongolia and Russia.

Distribution in Iran: Alborz, Guilan (Farahani *et al.* 2013a).

***Chelonus (Chelonus) inanitus* (Linnaeus, 1767)**  
General distribution: Nearctic and Palaearctic.  
Distribution in Iran: No specific locality cited (Aubert 1966; Kanjani 2004), Alborz (Shojai 1968, 1989, 1998; Davatchi and Shojai 1969; Kheyri 1977), West Azarbaijan (Alizadeh and Javan Moghaddam 2004), Mazandaran (Ghahari *et al.* 2009a), Kermanshah (Ghahari and Fischer 2012).

Hosts: *Agrotis segetum* (Denis & Schiffermüller) (Lep.: Noctuidae) (Alizadeh and Javan Moghaddam 2004), *Spodoptera exigua* (Hübner) (Lep.: Noctuidae) (Kheyri 1977).

***Chelonus (Chelonus) iranicus* Tobias, 1972**  
General distribution: Iran.  
Distribution in Iran: East Azarbaijan (Tobias 1972).

***Chelonus (Chelonus) medus* Telenga, 1941**  
General distribution: Iran and Turkmenistan.  
Distribution in Iran: No specific locality cited (Telenga 1941).

***Chelonus (Chelonus) microsomus* Tobias, 1964**  
General distribution: Palaearctic.  
Distribution in Iran: Mazandaran (Ghahari *et al.* 2010a), North Iran (Sakenin *et al.* 2011), Golestan (Ghahari and Fischer 2011b; Sakenin *et al.* 2012), Kuhgiluyeh & Boyerahmad (Samin *et al.* 2015b).

***Chelonus (Chelonus) ocellatus* Alexeev, 1971**  
General distribution: Palaearctic.  
Distribution in Iran: Mazandaran (Ghahari *et al.* 2010a; Ghahari and Fischer 2011b; Sakenin *et al.* 2012), Kermanshah (Ghahari and Fischer, 2012), Qazvin (Samin 2015).

***Chelonus (Chelonus) oculator* (Fabricius, 1775)**  
General distribution: Palaearctic.  
Distribution in Iran: No specific locality cited (Telenga 1941; Tobias 1976, 1986), Lorestan (Ghahari *et al.* 2012a), Alborz, Tehran, Qazvin (Farahani *et al.* 2013a).

***Chelonus (Chelonus) productus* Herrich-Schäffer, 1838**  
General distribution: Palaearctic.  
Distribution in Iran: Isfahan (Ghahari *et al.* 2011c).

***Chelonus (Chelonus) scabrator* (Fabricius, 1793)**  
General distribution: Palaearctic.  
Distribution in Iran: No specific locality cited (Telenga 1941), Guilan (Ghahari *et al.* 2009a), Sistan & Bluchestan (Khajeh *et al.* 2014d).

***Chelonus (Chelonus) setaceus* Papp, 1993**  
General distribution: Iran.  
Distribution in Iran: Tehran (Papp 1993; Farahani *et al.* 2013a).

***Chelonus (Chelonus) smirnovi* Telenga, 1953**  
General distribution: Palaearctic.  
Distribution in Iran: No specific locality cited (Tobias 1976), Lorestan (Ghahari *et al.* 2012a).

***Chelonus (Chelonus) szepligetii* Dalla Torre, 1898**  
General distribution: Palaearctic.  
Distribution in Iran: Khorasan Razavi (Samin *et al.* 2011), Kermanshah (Ghahari and Fischer, 2012), Qazvin (Farahani *et al.* 2013a), Charmahal & Bakhtiari (Samin *et al.* 2015b).

***Chelonus (Microchelonus) areolatus* Cameron, 1906**

General distribution: Iran, Pakistan and Turkmenistan.

Distribution in Iran: No specific locality cited (Papp 1996).

***Chelonus (Microchelonus) basalis* Curtis, 1837**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Telenga 1941).

***Chelonus (Microchelonus) cisapicalis* (Tobias, 1989)**

General distribution: Iran, Mongolia and Russia.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c, reported as *Microchelonus cisapicalis*).

***Chelonus (Microchelonus) contractus* (Nees, 1816)**

General distribution: Palaearctic.

Distribution in Iran: Tehran (Farahbakhsh 1961), Fars (Lashkari Bod *et al.* 2011a), Guilan (Papp 2014, reported as *Microchelonus (Microchelonus) contractus*).

Host: *Scrobipalpa ocellatella* Boyd (Lep.: Gelechiidae) (Farahbakhsh 1961).

***Chelonus (Microchelonus) depressus* Thomson, 1874**

General distribution: Palaearctic.

Distribution in Iran: Tehran (Davatchi and Shojai 1969).

***Chelonus (Microchelonus) flavipalpis* Szépligeti, 1896**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Farahani *et al.* 2013a).

***Chelonus (Microchelonus) flavoneavulus* Abdinbekova, 1971**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Tobias 2010; Papp 2014).

***Chelonus (Microchelonus) erythrogaster* Lucas, 1849**

General distribution: Palaearctic.

Distribution in Iran: Fars (Lashkari Bod *et al.* 2010, 2011a, 2011b).

***Chelonus (Microchelonus) incisus* (Tobias, 1986)**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c, reported as *Microchelonus incisus*).

***Chelonus (Microchelonus) iranicus* (Tobias, 2001)**

General distribution: Iran.

Distribution in Iran: No specific locality cited (Tobias 2001), Alborz (Papp 2014, reported as *Microchelonus (Microchelonus) iranicus*).

***Chelonus (Microchelonus) kermakiae* (Tobias, 2001)**

General distribution: Iran and Kyrgyzstan.

Distribution in Iran: Kerman (van Achterberg and Mehrnejad 2002; Mehrnejad 2009; Mehrnejad and Basirat 2009).

***Chelonus (Microchelonus) kopetdagicus* (Tobias, 1966)**

General distribution: Palaearctic.

Distribution in Iran: Sistan & Bluchestan (Khajeh *et al.* 2014d).

***Chelonus (Microchelonus) microphtalmus* Wesmael, 1838**

General distribution: Palaearctic.

Distribution in Iran: Sistan & Bluchestan (Khajeh *et al.* 2014d).

***Chelonus (Microchelonus) milkoi* Tobias, 2003**

General distribution: Iran, Kazakhstan and Kyrgyzstan.

Distribution in Iran: Guilan (Papp 2014, reported as *Microchelonus (Microchelonus) milkoi*).

***Chelonus (Microchelonus) moczari* Papp, 2014**

General distribution: Iran.

Distribution in Iran: Alborz (Papp 2014, reported as *Microchelonus (Microchelonus) moczari*).

***Chelonus (Microchelonus) mongolicus* (Telenga, 1941)**

General distribution: Iran, Mongolia and Russia.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c, reported as *Microchelonus mongolicus*).

***Chelonus (Microchelonus) pectinophorae* Cushman, 1931**

General distribution: Neotropical, Oriental and Palaeartic.

Distribution in Iran: Sistan & Baluchestan (Khajeh *et al.* 2014d).

***Chelonus (Microchelonus) subcontractus* Abdinbekova, 1971**

General distribution: Palaeartic.

Distribution in Iran: Tehran (Abbasipour *et al.* 2012, reported as *Microchelonus subcontractus*).

Host: *Scrobipalpa ocellatella* Boyd (Lep.: Gelechiidae) (Abbasipour *et al.* 2012).

***Chelonus (Microchelonus) subpusillus* Tobias, 1997**

General distribution: Iran, Kazakhstan and Tajikistan.

Distribution in Iran: Fars (Papp 2014, reported as *Microchelonus (Microchelonus) subpusillus*).

***Chelonus (Microchelonus) telengai* (Abdinbekova, 1965)**

General distribution: Armenia, Azerbaijan, Iran. Distribution in Iran: No specific locality cited (Abdinbekova 1965; Tobias 1976, 1986, 2001), Alborz, Tehran, Qazvin (Farahani *et al.* 2013a).

***Chelonus (Parachelonus) pellucens* (Nees, 1816)**

General distribution: Palaeartic.

Distribution in Iran: West Azarbaijan (Ghahari and Fischer, 2011a), North Iran (Sakenin *et al.* 2011, reported as *Chelonus varimaculatus* Tobias, 1986), Guilan (Ghahari and Fischer 2011b; Sakenin *et al.* 2012, reported as *Chelonus varimaculatus* Tobias, 1986), Lorestan (Ghahari *et al.* 2012a, reported as *Chelonus varimaculatus* Tobias, 1986), Fars (Samin *et al.* 2015b).

***Chelonus (Stylochelonus) mucronatus* Thomson, 1874**

General distribution: Palaeartic.

Distribution in Iran: Ilam (Ghahari *et al.* 2010b; Gadallah and Ghahari 2013b, reported as *Chelonus (Microchelonus)*

*mucronatus*), Kordestan (Samin 2015, reported as *Chelonus (Microchelonus) mucronatus*).

**Tribe Phanerotomini Baker, 1926*****Phanerotoma (Bracotritoma) masiana* Fahringer, 1934**

General distribution: Afrotropical and Palaeartic.

Distribution in Iran: Fars (Al-e-Mansour and Mostafavi 1993).

***Phanerotoma (Bracotritoma) parva* Kokujev, 1903**

General distribution: Palaeartic.

Distribution in Iran: Fars (Al-e-Mansour and Mostafavi 1993).

***Phanerotoma (Bracotritoma) permixtella* Fischer, 1968**

General distribution: Greece, Iran and Syria.

Distribution in Iran: West Azarbaijan (Ghahari and Fischer 2011a), Hormozgan (Ameri *et al.* 2012), Golestan (Samin *et al.* 2015).

***Phanerotoma (Phanerotoma) acuminata* Szépligeti, 1908**

General distribution: Nearctic and Palaeartic.

Distribution in Iran: Guilan (Farahani *et al.* 2012b).

***Phanerotoma (Phanerotoma) fracta* Kokujev, 1903**

General distribution: Palaeartic.

Distribution in Iran: Sistan & Baluchestan (Hedwig 1957), No specific locality cited (van Achterberg 1990), Semnan (Ghahari and Gadallah 2015).

***Phanerotoma (Phanerotoma) katkowi* Kokujev, 1900**

General distribution: Palaeartic.

Distribution in Iran: Fars (Al-e-Mansour and Mostafavi 1993).

***Phanerotoma (Phanerotoma) kozlovi* Shestakov, 1930**

General distribution: Palaeartic.

Distribution in Iran: Hormozgan (Ameri *et al.* 2012).

***Phanerotoma (Phanerotoma) leucobasis* Kriechbaumer, 1894**

General distribution: Afrotropical, Nearctic, Oceanic and Palaeartic.

Distribution in Iran: Sistan & Baluchestan (Hedwig 1957, reported as *Phanerotoma hispanica* var. *desertorum*; van Achterberg 1990, reported as *Phanerotoma ocularis*), date-palm planting area (Gharib 1968, reported as *Phanerotoma ocularis*), Isfahan (Sobhani *et al.* 2012).

Hosts: *Batrachedra amydraula* Meyrick (Lep.: Batrachedridae) (Gharib 1968), *Ectomyelois ceratoniae* (Zeller) (Lep.: Pyralidae) (Sobhani *et al.* 2012).

***Phanerotoma (Phanerotoma) minuta* Kokujev, 1903**

General distribution: Oriental and Palaeartic.

Distribution in Iran: Sistan & Baluchestan (Farahani *et al.* 2012e).

***Phanerotoma (Phanerotoma) rufescens* (Latreille, 1809)**

General distribution: Palaeartic.

Distribution in Iran: Hormozgan (Ameri *et al.* 2012).

***Phanerotoma (Phanerotoma) syleptae* Zettel, 1990**

General distribution: Oriental and Palaeartic.

Distribution in Iran: Tehran (Varamin) (Zettel 1990).

***Phanerotomella rufa* (Marshall, 1898)**

General distribution: Oriental and Palaeartic.

Distribution in Iran: Alborz, Tehran (Farahani *et al.* 2012b), Hormozgan (Ameri *et al.* 2012).

**Subfamily Doryctinae Förster, 1862****Tribe Doryctini Förster, 1862*****Dendrosoter (Dendrosoter) protuberans* (Nees, 1834)**

General distribution: Nearctic and Palaeartic.

Distribution in Iran: Alborz (Farahani *et al.* 2014c).

***Dendrosoter (Dendrosoter) middendorffii* (Ratzeburg, 1848)**

General distribution: Oriental and Palaeartic.

Distribution in Iran: No specific locality cited (Belokobylskij and Tobias 1986), Ardabil (Basiri *et al.* 2013).

Host: *Scolytus rugulosus* (Mueller) (Col.: Curculionidae) (Basiri *et al.* 2013).

***Doryctes inopinatus* Belokobylskij, 1984**

General distribution: Iran and Tajikistan.

Distribution in Iran: Hormozgan (Ameri *et al.* 2014a).

***Doryctes leucogaster* (Nees, 1834)**

General distribution: Oriental and Palaeartic.

Distribution in Iran: No specific locality cited (Telenga 1941; Shenefelt and Marsh 1976), Ilam (Ghahari *et al.* 2011a), Alborz, Qazvin (Farahani *et al.* 2014c), Hormozgan (Ameri *et al.* 2014a), West Azarbaijan (Samin *et al.* 2014).

***Doryctes striatellus* (Nees, 1834)**

General distribution: Oriental and Palaeartic.

Distribution in Iran: East Azarbaijan (Rastegar *et al.* 2012), West Azarbaijan (Samin *et al.* 2014).

***Ontsira ignea* (Ratzeburg, 1852)**

General distribution: Oriental and Palaeartic.

Distribution in Iran: Ilam (Ghahari *et al.* 2011a).

***Ontsira imperator* (Haliday, 1836)**

General distribution: Nearctic, Oriental and Palaeartic.

Distribution in Iran: No specific locality cited (Telenga 1941; Shenefelt and Marsh 1976), Qazvin (Ghahari *et al.* 2011b).

***Ontsira longicaudis* (Giraud, 1857)**

General distribution: Palaeartic.

Distribution in Iran: Mazandaran (Farahani *et al.* 2014c).

***Rhoptrocentrus piceus* Marshall, 1897**

General distribution: Nearctic, Oriental, Oceanic and Palaeartic.

Distribution in Iran: Qazvin (Ghahari *et al.* 2011b).

***Gildoria titubata* (Papp, 1985)**

General distribution: Palaearctic.

Distribution in Iran: West Azarbaijan (Ghahari and Fischer 2011a, reported as subfamily Cheloninae), Kuhgiloyeh & Boyerahmad (Samin *et al.* 2015b).

**Tribe Ecphylini Hellén, 1957*****Ecphylus (Ecphylus) silesiacus* (Ratzeburg, 1848)**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Aubert 1966; Shenefelt and Marsh 1976), Tehran, Markazi, Semnan (Davatchi and Radjabi 1969; Radjabi 1976, 1991; Shojai 1963, 1969, 1989, reported as *Ecphylus carinatus*).

Host: *Ruguloscolytus mediterraneus* (Eggers) (Col.: Curculionidae) (Radjabi 1976, 1991; Shojai 1963, 1969, 1989).

**Tribe Hecabolini Förster, 1862*****Leluthia (Euhecabolodes) asiatica* (Tobias, 1980)**

General distribution: Iran, Kazakhstan, Mongolia.

Distribution in Iran: Mazandaran (Farahani *et al.* 2014c).

***Leluthia (Euhecabolodes) ruguloscolyti* (Fischer, 1962)**

General distribution: Iran, Tajikistan and Turkmenistan.

Distribution in Iran: No specific locality cited (Fischer 1962; Aubert 1966; Belokobylskij and Tobias 1986), Tehran, Markazi, Kordestan, Zanjan, Isfahan (Shojai 1963, 1968, 1989; Davatchi and Shojai 1969; Radjabi 1976, 1991, reported as *Hecabalodes ruguloscolytus*)

Hosts: *Ruguloscolytus mediterraneus* (Eggers) (Col.: Curculionidae), *Scolytochelus multistriatus* Reitter (Col.: Curculionidae) and *Phloeosinus bicolor* auct. (null) (Col.: Curculionidae) (Shojai 1963, 1968, 1989; Davatchi and Shojai 1969; Radjabi 1976, 1991).

***Leluthia (Euhecabolodes) transcaucasica* (Tobias, 1976)**

General distribution: Palaearctic.

Distribution in Iran: Hormozgan (Ameri *et al.* 2014a).

***Leluthia (Leluthia) paradoxa* (Picard, 1938)**

General distribution: Palaearctic.

Distribution in Iran: Ilam (Ghahari *et al.* 2011a), Golestan (Sakenin *et al.* 2012).

***Hecabalodes xylophagi* Fischer, 1962**

General distribution: Afrotropical and Palaearctic.

Distribution in Iran: Tehran (Shojai 1989).

Host: *Ruguloscolytus mediterraneus* (Eggers) (Col.: Curculionidae) (Shojai 1989).

***Hecabolus sulcatus* Curtis, 1834**

General distribution: Palaearctic.

Distribution in Iran: Mazandaran (Farahani *et al.* 2014c).

**Tribe Heterospilini Fischer, 1981*****Heterospilus (Heterospilus) hemipterus* (Thomson, 1892)**

General distribution: Palaearctic.

Distribution in Iran: Qazvin (Ghahari *et al.* 2011b).

***Heterospilus (Heterospilus) tauricus* Telenga, 1941**

General distribution: Palaearctic.

Distribution in Iran: Alborz, Guilan, Qazvin, Tehran (Farahani *et al.* 2014c).

**Tribe Holcobraconini Cameron, 1905*****Zombrus flavipennis* (Brullé, 1846)**

General distribution: Iran and Pakistan.

Distribution in Iran: No specific locality cited (Shenefelt and Marsh 1976).

**Tribe Rhaconotini Fahringer, 1928*****Rhaconotus aciculatus* Ruthe, 1854**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Alborz, Guilan, Mazandaran, Tehran (Farahani *et al.* 2014c).

Hormozgan (Ameri *et al.* 2014a), West Azarbaijan (Samin *et al.* 2014).

***Rhaconotus kerzhneri* Belokobylskij, 1985**

General distribution: Palaearctic.

Distribution in Iran: Hormozgan (Ameri *et al.* 2014a).

***Rhaconotus scaber* Kokujev, 1900**

General distribution: Palaearctic.

Distribution in Iran: Alborz, Tehran (Farahani *et al.* 2014c).

***Rhaconotus testaceus* (Szépligeti, 1908)**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Hormozgan (Ameri *et al.* 2014a, reported as *Rhaconotus flavistigma*).

***Rhaconotus zarudnyi* Belokobylskij, 1990**

General distribution: China, Iran, Vietnam.

Distribution in Iran: Kerman (Belokobylskij 1990).

**Tribe Spathiini Marshall, 1872**

***Spathius brevicaudis* Ratzeburg, 1844**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Gilan, Mazandaran (Farahani *et al.* 2014c).

***Spathius curvicaudis* Ratzeburg, 1844**

General distribution: Palaearctic.

Distribution in Iran: Gilan, Mazandaran (Farahani *et al.* 2014c), West Azarbaijan (Samin *et al.* 2014).

***Spathius exarator* (Linnaeus, 1758)**

General distribution: Nearctic, Oceanic, Oriental and Palaearctic.

Distribution in Iran: Guilan (Farahani *et al.* 2014c), Hormozgan (Ameri *et al.* 2014a).

***Spathius pedestris maderi* Fahringer, 1930**

General distribution: Palaearctic.

Distribution in Iran: Ilam (Ghahari *et al.* 2011a, reported as *Spathius maderi*), Mazandaran (Sakenin *et al.* 2012, reported as *Spathius maderi*).

***Spathius polonicus* Niezabitowski, 1910**

General distribution: Palaearctic.

Distribution in Iran: Alborz (Fischer 1970; Radjabi 1989, reported as *Spathius radjabii* Fischer; Farahani *et al.* 2014c), Qazvin (Radjabi 1989, reported as *Spathius radjabii*; Farahani *et al.* 2014c), Zanjan, Semnan, Kordestan, Markazi (Radjabi 1976, 1989), East Azarbaijan (Ghahari *et al.* 2009c, on *Agrilus viridis*).

Host: *Agrilus viridis* (L.) (Col.: Buprestidae) (Ghahari *et al.* 2009c), *Sphenoptera davatchii* Desc., *S. kambyses* Obenb. (Col.: Buprestidae) and *Chrysobothris affinis* (Fabricius) (Col.: Buprestidae) (Radjabi 1989).

***Spathius rubidus* (Rossi, 1794)**

General distribution: Nearctic and Palaearctic.

Distribution in Iran: Mazandaran (Ghahari *et al.* 2009b; Farahani *et al.* 2014c), Guilan (Farahani *et al.* 2014c), Hormozgan (Ameri *et al.* 2014a).

**Subfamily Euphorinae Förster, 1862**

**Tribe Centistini Capek, 1970**

***Allurus lituratus* (Haliday, 1835)**

General distribution: Oriental, Nearctic and Palaearctic.

Distribution in Iran: Mazandaran (Ghahari *et al.* 2010a), Hormozgan (Ameri *et al.* 2014), Golestan (Samin *et al.* 2015).

***Allurus muricatus* (Haliday, 1833)**

General distribution: Palaearctic.

Distribution in Iran: Qazvin (Farahani *et al.* 2013b).

***Centistes (Ancylocentrus) ater* (Nees, 1834)**

General distribution: Nearctic and Palaearctic.

Distribution in Iran: Kermanshah (Gadallah *et al.* 2016b).

***Centistes (Centistes) fuscipes* (Nees, 1834)**

General distribution: Palaearctic.

Distribution in Iran: Ardabil (Ghahari and Fischer 2011a).

***Centistes (Centistes) cuspidatus* (Haliday, 1833)**

General distribution: Palaearctic.

Distribution in Iran: Mazandaran (Gadallah *et al.* 2016b).

**Tribe Dinocampini Shaw, 1985*****Dinocampus coccinellae* (Schrank, 1802)**

General distribution: Australasian, Nearctic, Neotropical, Oceanic, Oriental and Palaeartic.

Distribution in Iran: Isfahan (Bagheri 1998, reported as *Perilitus coccinillae*; Samin 2015), Mazandaran (Ghahari *et al.* 2010a), Hamadan (Tavoosi Ajvad *et al.* 2014), Tehran (Shahriar), Guilan, Qazvin (Farahani *et al.* 2013b), Yazd (Farahani *et al.* 2013b), Hormozgan (Ameri *et al.* 2014b).

Hosts: *Coccinella septempunctata* L. (Col.: Coccinellidae) (Bagheri 1998; Farahani *et al.* 2013b), *Hippodamia variegata* (Goeze) (Col.: Coccinellidae) (Tavoosi Ajvad *et al.* 2014).

**Tribe Euphorini Förster, 1862*****Chrysopophthorus hungaricus* (Kiss, 1927)**

General distribution: Oceanic and Palaeartic. Distribution in Iran: East Azarbaijan (Ghahari *et al.* 2009c).

Host: *Chrysopa carnea* Stephans (Neuroptera: Chrysopidae) (Ghahari *et al.* 2009c).

***Leiophron (Euphoriana) deficiens* (Ruthe, 1856)**

General distribution: Palaeartic.

Distribution in Iran: Mazandaran (Ghahari and Fischer 2011b; Sakenin *et al.* 2012), Lorestan (Ghahari *et al.* 2012a, reported as *Leiophron (Euphorus) deficiens*), Alborz, Tehran (Farahani *et al.* 2013c), North Khorasan (Samin 2015).

***Leiophron (Euphoriana) heterocordyli* Richards, 1967**

General distribution: Palaeartic.

Distribution in Iran: Guilan (Ghahari and Fischer 2011b; Sakenin *et al.* 2012, reported as *Leiophron (Leiophron) heterocordyli*).

***Leiophron (Euphorus) pallidistigma* Curtis, 1833**

General distribution: Palaeartic.

Distribution in Iran: Guilan, Mazandaran (Farahani *et al.* 2013c, reported as *Euphorus pallidistigma*).

***Leiophron (Euphorus) similis* Curtis, 1833**

General distribution: Palaeartic.

Distribution in Iran: Guilan (Farahani *et al.* 2013c, reported as *Euphorus similis*).

***Leiophron (Leiophron) fascipennis* (Ruthe, 1856)**

General distribution: Palaeartic.

Distribution in Iran: Guilan (Farahani *et al.* 2013c).

***Peristenus grandiceps* (Thomson, 1892)**

General distribution: Palaeartic.

Distribution in Iran: Hormozgan (Ameri *et al.* 2014b).

***Peristenus nitidus* (Curtis, 1833)**

General distribution: Palaeartic.

Distribution in Iran: West Azarbaijan (Gadallah *et al.* 2016b).

***Peristenus pallipes* Curtis, 1833**

General distribution: Nearctic, Oriental and Palaeartic.

Distribution in Iran: Guilan, Mazandaran (Farahani *et al.* 2013b, reported as *Peristenus pallipes*).

***Peristenus picipes* Curtis, 1833**

General distribution: Palaeartic.

Distribution in Iran: Fars (Lashkari Bod *et al.* 2010, 2011a, reported as *Peristenus picipes*).

***Peristenus relictus* (Ruthe, 1856)**

General distribution: Nearctic and Palaeartic.

Distribution in Iran: Qazvin (Farahani *et al.* 2013b).

***Wesmaelia petiolata* (Wollaston, 1858)**

General distribution: Nearctic, Neotropical, Oceanic, Oriental and Palaeartic.

Distribution in Iran: No specific locality cited (Belokobylskij 1992, reported as *Wesmaelia pendula* Förster, 1862), Hormozgan (Ameri *et al.* 2014b).

**Tribe Meteorini Cresson, 1887*****Meteorus affinis* (Wesmael, 1835)**

General distribution: Oriental and Palaeartic.

Distribution in Iran: Hamadan (Gadallah *et al.* 2016b).



***Meteorus alborossicus* Lobodenko, 2000**

General distribution: Palaearctic.

Distribution in Iran: Mazandaran (Farahani and Talebi 2012).

***Meteorus brevi antennatus* Tobias, 1986**

General distribution: Georgia, Iran and Russia.

Distribution in Iran: Guilan, Mazandaran (Farahani and Talebi 2012).

***Meteorus breviterebratus* Ameri, Talebi & Beyarslan, 2014**

General distribution: Iran.

Distribution in Iran: Hormozgan (Ameri *et al.* 2014b).

***Meteorus cinctellus* (Spinola, 1808)**

General distribution: Oceanic, Oriental and Palaearctic.

Distribution in Iran: Guilan, Mazandaran (Farahani and Talebi 2012).

***Meteorus colon* (Haliday, 1835)**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Kermanshah (Ghahari *et al.* 2010c, reported as *Meteorus luridus* Ruthe, 1862), Guilan (Farahani and Talebi 2012).

Host: *Saturnia pavonia* (L.) (Lep.: Saturniidae) (Ghahari *et al.* 2010c).

***Meteorus consimilis* (Nees, 1834)**

General distribution: Palaearctic.

Distribution in Iran: Guilan, Mazandaran (Farahani and Talebi 2012).

***Meteorus ictericus* (Nees, 1811)**

General distribution: Australasian, Nearctic, Oceanic, Oriental and Palaearctic.

Distribution in Iran: Mazandaran (Farahani and Talebi 2012).

***Meteorus obsoletus* (Wesmael, 1835)**

General distribution: Palaearctic.

Distribution in Iran: East Azarbaijan (Nikdel *et al.* 2004).

Host: *Euproctis chrysorrhoea* L. (Lep.: Lymantriidae) (Nikdel *et al.* 2004).

Remarks: Ameri *et al.* (2014b) had erroneously recorded from Ardabil province with reference to Nikdel *et al.* (2004).

***Meteorus pendulus* (Müller, 1776)**

General distribution: Nearctic, Oceanic, Oriental and Palaearctic.

Distribution in Iran: Mazandaran (Abbasipour 2001; Abbasipour *et al.* 2004, reported as *Meteorus gyrator*; Farahani and Talebi 2012), no specific locality cited (Stigenberg and Ronquist 2011), Isfahan (Ghahari *et al.* 2011c, reported as *Meteorus gyrator*), Guilan, Qazvin (Farahani and Talebi 2012), West Azarbaijan (Farahani and Talebi 2012).

Hosts: *Mythimna unipuncta* (Haworth) (Lep.: Noctuidae) (Abbasipour 2001; Abbasipour *et al.* 2004), *Spodoptera exigua* (Hübner) (Lep.: Noctuidae) (Farahani and Talebi 2012).

***Meteorus pulchricornis* (Wesmael, 1835)**

General distribution: Australasian, Oceanic, Oriental and Palaearctic.

Distribution in Iran: Mazandaran (Herard *et al.* 1979; Ghahari *et al.* 2009a, reported as subfamily Meteorinae; Farahani and Talebi 2012).

Host: *Lymantria dispar* (L.) (Lep.: Lymantriidae) (Herard *et al.* 1979).

***Meteorus rubens* (Nees, 1811)**

General distribution: Nearctic, Neotropical, Oriental and Palaearctic.

Distribution in Iran: No specific locality cited (Aubert 1966; Stigenberg and Ronquist 2011), Alborz (Shojai 1968; Davatchi and Shojai 1969, reported as *Meteorus mesopotanicus*; Farahani and Talebi 2012), Khuzestan (Modares Awal 1997), Mazandaran, Tehran (Farahani and Talebi 2012), Qazvin (Farahani and Talebi 2012), Hormozgan (Ameri *et al.* 2014b), Khorasan Razavi (Darsouei and Karimi 2015).

Host: *Spodoptera exigua* (Hübner) (Lep.: Noctuidae) (Shojai 1968; Davatchi and Shojai 1969; Farahani and Talebi 2012; Darsouei and Karimi 2015).

***Meteorus rufus* (DeGeer, 1778)**

General distribution: Oceanic, Oriental and Palaearctic.

Distribution in Iran: Charmahal & Bakhtiari (Gadallah *et al.* 2016b).

***Meteorus versicolor* (Wesmael, 1835)**

General distribution: Nearctic, Oriental and Palaearctic.

Distribution in Iran: Tehran (Shojai 1989, reported as *Meteorus decoloratus*), East Azarbaijan (Nikdel *et al.* 2004), Golestan (Ghahari *et al.* 2009a, reported as subfamily Meteorinae), Guilan (Farahani and Talebi 2012).

Host: *Euproctis chrysorrhoea* L. (Lep.: Lymantriidae) (Shojai 1989; Nikdel *et al.* 2004).

***Meteorus vexator* (Haliday, 1835)**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Farahani and Talebi 2012).

***Zele albiditarsus* Curtis, 1832**

General distribution: Nearctic, Neotropical, Oriental and Palaearctic.

Distribution in Iran: Alborz (Farahani and Talebi 2012).

***Zele chlorophthalmus* (Spinola, 1808)**

General distribution: Afrotropical, Oceanic, Oriental and Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2009a, reported as subfamily Meteorinae), Mazandaran (Farahani and Talebi 2012).

**Tribe Myiocephalini Chen & van Achterberg, 1997*****Myiocephalus boops* (Wesmael, 1835)**

General distribution: Nearctic, Oriental and Palaearctic.

Distribution in Iran: Khorasan Razavi (Samin *et al.* 2011).

**Tribe Neoneurini Bengtsson, 1918*****Elasmosoma berolinense* Ruthe, 1858**

General distribution: Palaearctic.

Distribution in Iran: Ardabil (Ghahari *et al.* 2009b).

***Elasmosoma luxemburgense* Wasmann, 1909**

General distribution: Palaearctic.

Distribution in Iran: Alborz (Farahani *et al.* 2014h).

**Tribe Perilitini Förster, 1862*****Ecclitura primoris* Kokujev, 1902**

General distribution: Palaearctic.

Distribution in Iran: Sistan & Baluchestan (Hedwig 1957, reported as *Blacus pallens* (Hedwig, 1957)), no specific locality cited (Achterberg 1980; Haeselbarth 1983; Tobias 1986).

***Microctonus aethiops* (Nees, 1834)**

General distribution: Australasian, Nearctic, Neotropical, Oceanic and Palaearctic.

Distribution in Iran: Alborz (Mirabzadeh 1968; Farahani *et al.* 2013b, reported as *Perilitus aethiops*), Hamedan (Arbab and McNeill 2001, reported as *Microctonus aethiopoides*), Qazvin (Arbab and McNeill 2001; Farahani *et al.* 2013b, reported as *Perilitus aethiops*), Kermanshah (Ghahari *et al.* 2010b, reported as *Perilitus (Microctonus) aethiops*), Lorestan (Ghahari *et al.* 2012a, reported as *Perilitus (Microctonus) aethiops*), Guilan, Mazandaran (Farahani *et al.* 2013b, reported as *Perilitus aethiops*), Kordestan (Samin 2015).

Host: *Hypera postica* (Gyllenhal) (Col.: Curculionidae) (Mirabzadeh 1968).

***Microctonus brevicollis* (Haliday, 1835)**

General distribution: Palaearctic.

Distribution in Iran: Hamadan (Gadallah *et al.* 2016b).

***Microctonus colesi* Drea, 1968**

General distribution: Nearctic and Palaearctic.

Distribution in Iran: No specific locality cited (Bartlett *et al.* 1978).

Host: *Hypera postica* (Gyllenhal) (Col.: Curculionidae) (Bartlett *et al.* 1978).

***Microctonus flaciger* Ruthe, 1856**

General distribution: Palaearctic.

Distribution in Iran: North Khorasan (Gadallah *et al.* 2016b).

***Microctonus melanopus* Ruthe, 1856**

General distribution: Nearctic and Palaearctic.

Distribution in Iran: Sistan & Baluchestan (Sedighi *et al.* 2014).

***Microctonus morimi* (Ferrière, 1931)**

General distribution: Iran and Italy.

Distribution in Iran: East Azarbaijan (Sakenin *et al.* 2009b).

***Microctonus stelleri* Loan, 1972**

General distribution: Nearctic (introduced) and Palaearctic.

Distribution in Iran: Isfahan (Ghahari *et al.* 2010b, reported as *Perilitus* (*Microctonus*) *stelleri*), Guilan (Farahani *et al.* 2013b, reported as *Perilitus stelleri*), Golestan (Samin *et al.* 2015, reported as *Perilitus* (*Microctonus*) *stelleri*).

***Perilitus foveolatus* Reinhard, 1862**

General distribution: Palaearctic.

Distribution in Iran: Guilan, Qazvin (Farahani *et al.* 2013b).

***Perilitus rutilus* (Nees, 1811)**

General distribution: Nearctic and Palaearctic.

Distribution in Iran: Guilan, Mazandaran, Qazvin (Farahani *et al.* 2013b).

***Perilitus stenocari* Haeselbarth, 2008**

General distribution: Palaearctic.

Distribution in Iran: Tehran (Haeselbarth 2008; Gadallah *et al.* 2016b, reported as *Microctonus stenocari*).

***Townesilitus bicolor* (Wesmael, 1835)**

General distribution: Nearctic (introduced) and Palaearctic.

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c, reported as *Townesilitus bicolor*), Guilan, Mazandaran (Farahani *et al.* 2013b), Semnan (Samin *et al.* 2014), Golestan (Samin *et al.* 2015).

**Tribe Syntretini Shaw, 1985*****Syntretus* (*Syntretus*) *idalius* (Haliday, 1833)**

General distribution: Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a).

Remarks: Ameri *et al.* (2014b) had erroneously recorded from East Azarbaijan province with reference to Ghahari *et al.* (2012a).

***Syntretus* (*Syntretus*) *ocularis* van Achterberg & Haeselbarth, 2003**

General distribution: Palaearctic.

Distribution in Iran: Guilan, Mazandaran (Farahani *et al.* 2012c).

***Syntretus* (*Syntretus*) *xanthocephalus* (Marshall, 1887)**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Guilan (Farahani *et al.* 2012c).

**Subfamily Gnamptodontinae Fischer, 1970*****Gnamptodon breviradialis* (Fischer, 1959)**

General distribution: Palaearctic.

Distribution in Iran: Guilan, Mazandaran (Farahani *et al.* 2014d).

***Gnamptodon decoris* (Förster, 1862)**

General distribution: Palaearctic.

Distribution in Iran: Guilan, Mazandaran (Farahani *et al.* 2014d).

***Gnamptodon georginae* (van Achterberg, 1983)**

General distribution: Palaearctic.

Distribution in Iran: Golestan (Ghahari *et al.* 2010b), Alborz, Guilan, Qazvin, Tehran (Farahani *et al.* 2014d), Khuzestan (Samin *et al.* 2015b).

***Gnamptodon pumilio* (Nees, 1834)**

General distribution: Palaearctic.

Distribution in Iran: Guilan, Mazandaran (Farahani *et al.* 2014d).

**Subfamily Helconinae Förster, 1862****Tribe Diospilini Förster, 1862*****Aspicolpus borealis* (Thomson, 1892)**

General distribution: Palaearctic.

Distribution in Iran: Tehran (Hedwig 1957, reported as *Helcon borealis*), Golestan (Ghahari *et al.* 2010a).

***Aspicolpus carinator* (Nees, 1812)**

General distribution: Palaearctic.

Distribution in Iran: Ardabil (Gadallah *et al.* 2016b).

Remarks: According to van Achterberg (2014), *Aspicolpus carinator* is synonym of *A. borealis* (Thomson, 1892).

***Diospilus (Diospilus) capito* (Nees, 1834)**

General distribution: Palaearctic.

Distribution in Iran: Charmahal & Bakhtiari (Gadallah *et al.* 2016b).

***Diospilus (Diospilus) nigricornis* (Wesmael, 1835)**

General distribution: Palaearctic.

Distribution in Iran: Khuzestan (Ghahari *et al.* 2010b), Golestan (Samin *et al.* 2015).

***Diospilus (Diospilus) productus* Marshall, 1894**

General distribution: Palaearctic.

Distribution in Iran: Kordestan (Gadallah *et al.* 2016b).

***Taphaeus hiator* (Thunberg, 1822)**

General distribution: Nearctic and Palaearctic.

Distribution in Iran: Charmahal & Bakhtiari (Ghahari *et al.* 2010b; Samin 2015), East Azerbaijan (Sakenin *et al.* 2009a).

**Tribe Helconini Förster, 1862*****Helcon claviventris* Wesmael, 1835**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Tehran (Hedwig 1957).

***Helcon heinrichi* Hedqvist, 1967**

General distribution: Iran.

Distribution in Iran: No specific locality cited (Hedqvist 1967).

***Helconidea dentator* (Fabricius, 1804)**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Sakenin *et al.* 2009b).

**Subfamily Homolobinae van Achterberg, 1979*****Homolobus (Apatia) ophioninus* (Vachal, 1907)**

General distribution: Afrotropical, Australasian, Oceanic and Palaearctic.

Distribution in Iran: Fars (Beshneh) (van Achterberg 1979).

***Homolobus (Apatia) truncator* (Say, 1829)**

General distribution: Afrotropical, Nearctic, Neotropical, Oriental and Palaearctic.

Distribution in Iran: East Azarbaijan (Ghahari *et al.* 2009a, 2009c), Alborz, Tehran

(Shahriar), Qazvin, Gilan, Mazandaran (Farahani *et al.* 2012d).

***Homolobus (Chartolobus) infumator* (Lyle, 1914)**

General distribution: Nearctic, Neotropical, Oriental and Palaearctic.

Distribution in Iran: Gilan, Mazandaran (Farahani *et al.* 2012d).

**Subfamily Hormiinae Förster, 1862****Tribe Avgini Belokobylskij, 1993*****Pseudobiosteres blaciformis* Hedwig, 1961**

General distribution: Afghanistan and Iran.

Distribution in Iran: Khorasan-e-Jounobi (Samin *et al.* 2011).

***Pseudobiosteres imperfectus* Hedwig, 1961**

General distribution: Afghanistan and Iran.

Distribution in Iran: Khorasan Razavi (Samin *et al.* 2011), Fars (Samin *et al.* 2015b).

***Pseudohormius flavobasalis* (Hedwig, 1957)**

General distribution: Iran, Turkmenistan.

Distribution in Iran: Sistan & Baluchestan (Hedwig 1957, reported as *Perilitus flavobasalis*), Hormozgan (Ameri *et al.* 2016).

***Pseudohormius turkmenus* Tobias & Alexeev, 1973**

General distribution: Palaearctic.

Distribution in Iran: Hormozgan (Ameri *et al.* 2016).

**Tribe Hormiini Förster, 1862*****Hormisca pseudomitis* (Hedwig, 1957)**

General distribution: Afghanistan and Iran.

Distribution in Iran: Sistan & Baluchestan (Hedwig 1957, reported as *Euphorus pseudomitis*).

Remarks: According to Gadallah *et al.* (2016b), this species is a new combination for the *Euphorus pseudomitis* Hedwig, 1957 (Braconidae: Euphorinae).

***Hormisca tatianae* Telenga, 1941**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Telenga 1941; Shenefelt 1975; Belokobilskij and Tobias 1986), Gilan (Ghahari *et al.* 2009a, reported as subfamily Exothecinae).

***Hormius moniliatus* (Nees, 1811)**

General distribution: Nearctic, Oceanic, Oriental and Palaearctic.

Distribution in Iran: Mazandaran (Ghahari *et al.* 2009a, reported as subfamily Exothecinae), East Azarbaijan (Ghahari *et al.* 2009c, reported as subfamily Exothecinae), Isfahan (Ghahari *et al.* 2011c), West Azarbaijan (Samin *et al.* 2014), Hormozgan (Ameri *et al.* 2016).

***Hormius radialis* Telenga, 1941**

General distribution: Palaearctic.

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c), Hormozgan (Ameri *et al.* 2016).

***Hormius sculpturatus* Tobias, 1967**

General distribution: Iran, Turkmenistan.

Distribution in Iran: Fars (Al-e-Mansour and Mostafavi 1993), Hormozgan (Ameri *et al.* 2016).

***Hormius similis* Szépligeti, 1896**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Qazvin (Ghahari *et al.* 2011b), West Azarbaijan (Samin *et al.* 2014).

**Subfamily Ichneutinae Förster, 1862*****Pseudichneutes atanassovae* van Achterberg, 1997**

General distribution: Western Palaearctic

Distribution in Iran: Alborz (Farahani *et al.* 2012e).

**Subfamily Macrocentrinae Förster, 1862*****Macrocentrus bicolor* Curtis, 1833**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Fars (Ghahari *et al.* 2010b; Samin 2015), Guilan (Farahani *et al.* 2012a).

***Macrocentrus blandus* Eady & Clark, 1964**

General distribution: Palaearctic.

Distribution in Iran: Alborz, Guilan, Mazandaran (Farahani *et al.* 2012a).

***Macrocentrus cingulum* Brischke, 1882**

General distribution: Nearctic, Oriental and Palaearctic.

Distribution in Iran: Guilan, Mazandaran (Farahani *et al.* 2012a).

***Macrocentrus collaris* (Spinola, 1808)**

General distribution: Afrotropical, Neotropical, Oceanic, Oriental and Palaearctic.

Distribution in Iran: Alborz (Shojai 1968; Farahani *et al.* 2012a), no specific locality cited (Aubert 1966; Belokobylskij 2000), Fars (Al-e-Mansour and Mostafavi 1993), Mazandaran (Ghahari *et al.* 2009a, reported as *Macrocentrus* (*Amicroplus*) *collaris*; Farahani *et al.* 2012a), Guilan, Qazvin, Tehran (Farahani *et al.* 2012a).

Host: *Agrotis segetum* (Denis & Schiffermüller) (Lep.: Noctuidae) (Shojai 1968).

***Macrocentrus equalis* Lyle, 1914**

General distribution: Palaearctic.

Distribution in Iran: Mazandaran (Farahani *et al.* 2012a).

***Macrocentrus flavus* Vollenhoven, 1878**

General distribution: Palaearctic.

Distribution in Iran: Fars (van Achterberg 1993).

***Macrocentrus marginator* (Nees, 1811)**

General distribution: Nearctic, Oriental and Palaearctic.

Distribution in Iran: Guilan (Farahani *et al.* 2012a).

**Subfamily Microgastrinae Förster, 1862****Tribe Apantelini Viereck, 1918*****Apanteles aethiopicus* Wilkinson, 1931**

General distribution: Afrotropical and Iran.

Distribution in Iran: Guilan (Ghahari *et al.* 2010c, reported as *Dolichogenidea aethiopica*).

Hosts: *Holocerina angulata* (Aurivillius) (Lep.: Saturniidae) and *Gonimbrasia tyrrhea* Cramer (Lep.: Saturniidae) (Ghahari *et al.* 2010c).

***Apanteles agilla* Nixon, 1972**

General distribution: Palaearctic.

Distribution in Iran: East Azarbaijan (Ghahari *et al.* 2011d, reported as *Dolichogenidea agilla*).

***Apanteles appellator* Telenga, 1949**

General distribution: Afrotropical, Oceanic and Palaearctic.

Distribution in Iran: Isfahan (Kazemzadeh *et al.* 2014, reported as *Dolichogenidea appellator*).

Host: *Plutella xylostella* (L.) (Lep.: Plutellidae) (Kazemzadeh *et al.* 2014).

***Apanteles biroicus* Papp, 1973**

General distribution: Western Palaearctic.

Distribution in Iran: Sistan & Baluchestan (Khajeh *et al.* 2014c, reported as *Illidops biroicus*).

***Apanteles brunnistigma* Abdinbekova, 1969**

General distribution: Palaearctic.

Distribution in Iran: East Azarbaijan (Gadallah *et al.* 2015b).

***Apanteles candidatus* (Haliday, 1834)**

General distribution: Palaearctic.

Distribution in Iran: Ilam (Ghahari *et al.* 2011a, reported as *Dolichogenidea candidate*), Lorestan (Ghahari *et al.* 2012a, reported as *Dolichogenidea candidate*).

***Apanteles carpatus* (Say, 1836)**

General distribution: Afrotropical, Australasian, Nearctic, Neotropical, Oceanic, Oriental and Palaearctic.

Distribution in Iran: Mazandaran (Ghahari *et al.* 2010a), Isfahan (Ghahari *et al.* 2011c), Sistan & Baluchestan (Samin 2015).

***Apanteles corvinus* Reinhard, 1880**

General distribution: Nearctic and Palaearctic.

Distribution in Iran: Ilam (Ghahari *et al.* 2011a), West Azarbaijan (Žikić *et al.* 2014).

Host: *Leucoptera malifoliella* (O. Costa) (Lep.: Lyonetiidae) (Žikić *et al.* 2014).

***Apanteles cytherea* Nixon, 1972**

General distribution: Palaearctic.

Distribution in Iran: Golestan (Ghahari and Fischer 2011c, reported as *Dolichogenidea cytherea*).

***Apanteles decorus* (Haliday, 1834)**

General distribution: Palaearctic.

Distribution in Iran: Qazvin (Ghahari *et al.* 2011b, reported as *Dolichogenidea decora*).

***Apanteles emarginatus* (Nees, 1834)**

General distribution: Palaearctic.

Distribution in Iran: Ardabil (Ghahari *et al.* 2009d).

***Apanteles flavostriatus* Papp, 1977**

General distribution: Western Palaearctic.

Distribution in Iran: Sistan & Baluchestan (Khajeh *et al.* 2014c, reported as *Dolichogenidea flavostriata* (Papp, 1977)).

***Apanteles galleriae* Wilkinson, 1932**

General distribution: Nearctic, Neotropical, Oceanic, Oriental and Palaearctic.

Distribution in Iran: Guilan (Goldansaz *et al.* 1996), Khorasan Razavi, Golestan (Ghahari *et al.* 2011d).

Host: *Achroia grisella* (Fabricius) (Lep.: Pyralidae) (Goldansaz *et al.* 1996).

***Apanteles halidayi* Marshall, 1872**

General distribution: Palaearctic.

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c, reported as *Dolichogenidea halidayi*).

***Apanteles hemara* Nixon, 1965**

General distribution: Afrotropical, Australasian, Oceanic, Oriental and Palaearctic.

Distribution in Iran: Qazvin (Ghahari *et al.* 2011b).

***Apanteles ingenuoides* Papp, 1971**

General distribution: Palaearctic.

Distribution in Iran: Kordestan (Gadallah *et al.* 2015b).

***Apanteles iranicus* Telenga, 1955**

General distribution: Iran, Kazakhstan and Mongolia.

Distribution in Iran: Kerman, Sistan & Baluchestan (Telenga 1955, reported as *Dolichogenidea iranica*).

***Apanteles isus* Nixon, 1965**

General distribution: Palaearctic.

Distribution in Iran: Sistan & Baluchestan (Khajeh *et al.* 2014c, reported as *Iconella isus* Nixon, 1965).

***Apanteles lacticolor* Viereck, 1911**

General distribution: Nearctic, Oriental and Palaearctic.

Distribution in Iran: Guilan (Bandar Anzali) (Herard *et al.* 1979).

Host: *Lymantria dispar* (L.) (Lep.: Lymantriidae) (Herard *et al.* 1979).

***Apanteles lacteus* (Nees, 1834)**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Telenga 1955).

***Apanteles laspeyresiella* Papp, 1972**

General distribution: Palaearctic.

Distribution in Iran: Qom (Norouzi *et al.* 2009).

Host: *Ectomyelois ceratoniae* (Zeller) (Lep.: Pyralidae) (Norouzi *et al.* 2009).

***Apanteles longipalpis* Reinhard, 1880**

General distribution: Palaearctic.

Distribution in Iran: Lorestan (Pirhadi *et al.* 2008).

Host: *Syringopais temperatella* Lederer (Lep.: Gelechiidae) (Pirhadi *et al.* 2008).

***Apanteles metacarpalis* (Thomson, 1895)**

General distribution: Palaearctic.

Distribution in Iran: Ilam (Ghahari *et al.* 2011a), Guilan (Ghahari *et al.* 2012c).

***Apanteles myeloenta* Wilkinson, 1937**

General distribution: Palaearctic.

Distribution in Iran: Markazi (Saveh), Tehran (Varamin) (Kishani Farahani *et al.* 2008), Kerman (Mehrnejad 2010, reported as *Iconella myeloenta*), Qazvin (Ghahari *et al.* 2011b), Qom (Kishani Farahani *et al.* 2008, 2012, 2013), Isfahan (Nobakht *et al.* 2015).

Hosts: *Arimania komaroffi* Ragonot (Lep.: Pyralidae) (Mehrnejad 2010) and *Ectomyelois ceratoniae* (Zeller) (Lep.: Pyralidae) (Kishani Farahani *et al.* 2008, 2012, 2013; Nobakht *et al.* 2015).

***Apanteles nagyi* Papp, 1975**

General distribution: Iran and Romania.

Distribution in Iran: Sistan & Baluchestan (Khajeh *et al.* 2014c, reported as *Iconella nagyi*).

***Apanteles naso* Marshall, 1885**

General distribution: Palaearctic.

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c, reported as *Illidops naso*), West

Azərbayjan (Rastegar *et al.* 2012, reported as *Illidops naso*).

***Apanteles obscurus* (Nees, 1834)**

General distribution: Palaearctic.

Distribution in Iran: Fars (Lashkari Bod *et al.* 2011a), West Azarbaijan (Samin *et al.* 2014), Sistan & Baluchestan (Khajeh *et al.* 2014c).

***Apanteles pilosus* Telenga, 1955**

General distribution: Palaearctic.

Distribution in Iran: Sistan & Baluchestan (Khajeh *et al.* 2014c, reported as *Illidops pilosus*).

***Apanteles scutellaris* Muesebeck, 1921**

General distribution: Nearctic, Neotropical, Oceanic and Palaearctic.

Distribution in Iran: West Azarbaijan (Ghahari and Fischer 2011a), Ilam (Ghahari *et al.* 2011a, reported as *Illidops scutellaris*), Khuzestan (Samin *et al.* 2015b).

***Apanteles seriphia* Nixon, 1972**

General distribution: Palaearctic.

Distribution in Iran: Golestan (Ghahari and Fischer 2011c, reported as *Dolichogenidea seriphia*).

***Apanteles sicarius* Marshall, 1885**

General distribution: Oceanic and Palaearctic.

Distribution in Iran: Ilam (Ghahari *et al.* 2011a, reported as *Dolichogenidea sicaria*).

***Apanteles sodalis* (Haliday, 1834)**

General distribution: Nearctic, Oceanic, Oriental and Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012, reported as *Apanteles ater* (Ratzeburg, 1852)).

***Apanteles subcamilla* Tobias, 1976**

General distribution: Azerbaijan and Iran.

Distribution in Iran: Sistan & Baluchestan (Khajeh *et al.* 2014c, reported as *Iconella subcamilla*).

***Apanteles suevus* Reinhard, 1880**

General distribution: Palaearctic.

Distribution in Iran: Golestan (Ghahari and Fischer 2011c).

***Apanteles xanthostigma* (Haliday, 1834)**

General distribution: Afrotropical and Palaearctic.

Distribution in Iran: No specific locality cited (Esmaili 1983, reported as *Apanteles Xanthostigma anarisae*).

Host: *Anarsia lineatella* Zeller (Lep.: Gelechiidae) (Esmaili 1983).

***Apanteles (Choeras) dorsalis* (Spinola, 1808)**

General distribution: Palaearctic.

Distribution in Iran: Ardabil (Ghahari *et al.* 2011d, reported as *Choeras dorsalis*).

***Apanteles (Choeras) tedellae* Nixon, 1961**

General distribution: Palaearctic.

Distribution in Iran: Golestan (Ghahari and Fischer 2011c).

***Apanteles (Choeras) tiro* (Reinhard, 1880)**

General distribution: Nearctic and Palaearctic.

Distribution in Iran: Qazvin (Ghahari *et al.* 2011b).

***Pholetesor circumscriptus* (Nees, 1834)**

General distribution: Nearctic, Oceanic and Palaearctic.

Distribution in Iran: Markazi (Radjabi 1986, reported as *Apanteles circumscriptus*), Alborz (Shojai 1989, reported as *Apanteles lautellus*), Isfahan (Ghahari *et al.* 2010b, reported as *Apanteles circumscriptus*), West Azarbaijan (Samin *et al.* 2014), Fars (Samin *et al.* 2015b, reported as *Apanteles circumscriptus*).

Hosts: *Phyllonorycter corylifoliella* (Hübner) (Lep.: Gracillariidae) (Radjabi 1986), *Phyllonorycter platani* (Staudinger) (Lep.: Gracillariidae) (Shojai 1989) and *Phyllonorycter blancardella* (Fabricius) (Lep.: Gracillariidae) (Ghahari *et al.* 2010b).

***Pholetesor pedias* (Nixon, 1973)**

General distribution: Nearctic, Oceanic and Palaearctic.

Distribution in Iran: Markazi (Radjabi 1986, reported as *Apanteles bicolor*), Ilam (Ghahari *et al.* 2011a, reported as *Pholetesor bicolor*).

Host: *Phyllonorycter corylifoliella* (Hübner) (Lep.: Gracillariidae) (Radjabi 1986)

***Pholetesor viminetorum* (Wesmael, 1837)**

General distribution: Nearctic and Palaearctic.

Distribution in Iran: Golestan (Telenga 1955).

**Tribe Cotesiini Mason, 1981*****Cotesia abjecta* (Marshall, 1885)**

General distribution: Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a, reported as *Cotesia abjectus*).

***Cotesia ancilla* (Nixon, 1974)**

General distribution: Palaearctic.

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c), Kermanshah (Ghahari and Fischer 2012).

***Cotesia callimone* (Nixon, 1974)**

General distribution: Palaearctic.

Distribution in Iran: Semnan (Naderain *et al.* 2012), Lorestan (Ghahari *et al.* 2012a), Mazandaran (Sakenin *et al.* 2012).

***Cotesia chilonis* (Munakata, 1910)**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Guilan, Mazandaran (Rassipour 1983, reported as *Apanteles chilonis*).

Host: *Chilo suppressalis* Walker (Lep.: Crambidae) (Rassipour 1983).

***Cotesia cuprea* (Lyle, 1925)**

General distribution: Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a, reported as *Cotesia cupreus*), West Azarbaijan (Samin *et al.* 2014).

***Cotesia euryale* (Nixon, 1974)**

General distribution: Palaearctic.

Distribution in Iran: Ilam (Ghahari *et al.* 2011a).

***Cotesia flavipes* Cameron, 1891**

General distribution: Afrotropical, Australasian, Nearctic, Neotropical, Oceanic, Oriental and Palaearctic.

Distribution in Iran: Mazandaran (Ghahari *et al.* 2009e).

Host: *Chilo suppressalis* Walker (Lep.: Crambidae) (Ghahari *et al.* 2009e).



***Cotesia geryonis* (Marshall, 1885)**

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012).

***Cotesia glomerata* (Linnaeus, 1758)**

General distribution: Australasian, Nearctic, Neotropical, Oceanic, Oriental and Palaearctic.

Distribution in Iran: Tehran, Mazandaran (Farahbakhsh 1961; Shojai 1968, 1989; Davatchi and Shojai 1969; Radjabi 1986, reported as *Apanteles glomeratus*; Modarres Awal 1997, reported as *Apanteles (=Microgaster) glomeratus*; Hasanshahi *et al.* 2014), Guilan (Ghahari *et al.* 2010c), West Azarbaijan (Alizadeh and Javan Moghaddam 2004; Razmi *et al.* 2011; Mirfakhraie and Dey 2013), Fars (Lashkari Bod *et al.* 2011a).

Hosts: *Agrotis segetum* (Denis & Schiffermüller) (Lep.: Noctuidae) (Alizadeh and Javan Moghaddam 2004), *Antheraea assama* Westwood (Lep.: Saturniidae) (Ghahari *et al.* 2010c), *Acronicta* sp. (Lep.: Noctuidae), *Aporia crataegi* (L.) (Lep.: Pieridae) (Radjabi 1986), *Pieris brassicae* (L.), *P. rapae* (L.) (Lep.: Pieridae) (Modarres Awal 1997; Mirfakhraie and Dey 2013; Hasanshahi *et al.* 2014).

***Cotesia hyphantriae* (Riley, 1887)**

General distribution: Nearctic, Neotropical and Palaearctic.

Distribution in Iran: Qazvin (Ghahari *et al.* 2011b).

***Cotesia jucunda* (Marshall, 1885)**

General distribution: Palaearctic.

Distribution in Iran: Markazi (Ghahari *et al.* 2011d), Guilan (Ghahari *et al.* 2012c).

***Cotesia kazak* (Telenga, 1949)**

General distribution: Australasian, Oceanic, Oriental and Palaearctic.

Distribution in Iran: Tehran (Varamin) (Shojai 1968, reported as *Apanteles Kazak*), Golestan (Ghadiri Rad and Ebrahimi 2010).

Hosts: *Helicoverpa armigera* (Hübner) (Lep.: Noctuidae) (Ghadiri Rad and Ebrahimi

2010), *Heliothis virescens* (Hufnagel) (Lep.: Noctuidae) (Shojai 1968).

***Cotesia melanoscela* (Ratzeburg, 1844)**

General distribution: Nearctic, Oriental and Palaearctic.

Distribution in Iran: Guilan, Mazandaran (Herard *et al.* 1979, reported as *Apanteles melanoscelus*; Radjabi 1986), East Azarbaijan (Ghahari *et al.* 2010c).

Hosts: *Hemileuca maia* Drury (Lep.: Saturniidae) (Ghahari *et al.* 2010c), *Lymantria dispar* (L.) (Lep.: Saturniidae) (Herard *et al.* 1979).

***Cotesia notha* (Marshall, 1885)**

General distribution: Palaearctic.

Distribution in Iran: Golestan (Ghahari and Fischer 2011c), Lorestan (Ghahari *et al.* 2012a, reported as *Cotesia nothus*).

***Cotesia ofella* (Nixon, 1974)**

General distribution: Palaearctic.

Distribution in Iran: West Azarbaijan (Karimpour *et al.* 2001), Mazandaran (Ghahari *et al.* 2010a).

Host: *Simyra dentinosa* Freyer (Lep.: Noctuidae) (Karimpour *et al.* 2001).

***Cotesia ordinaria* (Ratzeburg, 1844)**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a, reported as *Cotesia ordinarius*), Golestan (Sakenin *et al.* 2012, reported as *Cotesia ordinarius*).

***Cotesia praepotens* (Haliday, 1834)**

General distribution: Palaearctic.

Distribution in Iran: Qazvin (Ghahari *et al.* 2011b).

***Cotesia risilis* (Nixon, 1974)**

General distribution: Palaearctic.

Distribution in Iran: West Azarbaijan (Ghahari and Fischer 2011a; Samin 2015), Ilam (Ghahari *et al.* 2011a).

***Cotesia rubecula* (Marshall, 1885)**

General distribution: Nearctic, Oceanic, Oriental and Palaearctic.

Distribution in Iran: Khuzestan (Siahpoush *et al.* 1993).

Host: *Mythimna loreyi* (Duponchel) (Lep.: Noctuidae) (Siahpoush *et al.* 1993).

***Cotesia ruficrus* (Haliday, 1834)**

General distribution: Afrotropical, Australasian, Neotropical, Oceanic, Oriental and Palaearctic.

Distribution in Iran: Khuzestan (Siahpoush *et al.* 1993), Golestan (Daniali 1993), Mazandaran (Abbasipour *et al.* 2004, reported as *Cotesia ruficrus*), Fars (Lashkari Bod *et al.* 2011a), Sistan & Baluchestan (Khajeh *et al.* 2014c).

Hosts: *Mythimna loreyi* (Duponchel) (Lep.: Noctuidae) (Siahpoush *et al.* 1993), *Mythimna unipuncta* (Haworth) (Lep.: Noctuidae) (Abbasipour *et al.* 2004).

***Cotesia salebrosa* (Marshall, 1885)**

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012).

***Cotesia saltator* (Thunberg, 1822)**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Papp 1987), Sistan & Baluchestan (Khajeh *et al.* 2014c).

***Cotesia scabricula* (Reinhard, 1880)**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c).

***Cotesia sessilis* (Geoffroy, 1785)**

General distribution: Palaearctic.

Distribution in Iran: Alborz (Shojai 1968, 1989; as *Apanteles juniperatus*; Davatchi and Shojai 1969), Mazandaran (Ghahari *et al.* 2010c, reported as *Cotesia juniperatae* (Bouché, 1834)), Ardabil (Ghahari *et al.* 2011d, reported as *Cotesia tetrica*).

Hosts: *Lampides boeticus* (L.) (Lep.: Lycaenidae) (Shojai 1968, 1989) and *Saturnia pavonia* (L.) (Lep.: Saturniidae) (Ghahari *et al.* 2010c).

***Cotesia setebis* (Nixon, 1974)**

General distribution: Palaearctic.

Distribution in Iran: Golestan (Ghahari *et al.* 2011d).

***Cotesia specularis* (Szépligeti, 1896)**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Papp 1986, reported as *Apanteles specularis*), Qazvin (Ghahari *et al.* 2011b).

***Cotesia spuria* (Wesmael, 1837)**

General distribution: Palaearctic.

Distribution in Iran: Qazvin (Ghahari *et al.* 2011b).

***Cotesia telengai* (Tobias, 1972)**

General distribution: Palaearctic.

Distribution in Iran: Ilam (Ghahari *et al.* 2011a).

***Cotesia tenebrosa* (Wesmael, 1837)**

General distribution: Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a).

***Cotesia tibialis* (Curtis, 1830)**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Aubert 1966), Alborz (Shojai 1968, 1980, reported as *Apanteles congestus*; Davatchi and Shojai 1969), Golestan, Mazandaran (Ghahari *et al.* 2011d).

Host: *Agrotis segetum* (Denis & Schiffermüller) (Lep.: Noctuidae) (Shojai 1968, 1980).

***Cotesia vanessae* (Reinhard, 1880)**

General distribution: Afrotropical and Palaearctic.

Distribution in Iran: West Azarbaijan (Karimpour *et al.* 2001; Samin *et al.* 2014), Mazandaran (Ghahari *et al.* 2010a), Sistan & Baluchestan (Khajeh *et al.* 2014c).

Host: *Simyra dentinosa* Freyer (Lep.: Noctuidae) (Karimpour *et al.* 2001).

***Cotesia vestalis* (Haliday, 1834)**

General distribution: Oceanic, Oriental and Palaearctic.

Distribution in Iran: West Azarbaijan (Karimpour *et al.* 2005, reported as *Cotesia plutellae* (Kurdjumov, 1912)), Alborz (Golizadeh *et al.* 2008, reported as *Cotesia plutellae*; Ghahari *et al.* 2012b, reported as *Cotesia plutellae*), Isfahan (Afiunizadeh

Isfahani and Karimzadeh Isfahani 2010, reported as *Cotesia plutellae*; Ghahari *et al.* 2011c, reported as *Cotesia plutellae*; Rezaei *et al.* 2014), East Azarbaijan (Rastegar *et al.* 2012, reported as *Cotesia plutellae*; Ghahari *et al.* 2012b), Guilan (Ghahari *et al.* 2012c), Tehran (Hasanshahi *et al.* 2015).

Hosts: *Pieis rapae* (L.) (Lep.: Pieridae) (Hasanshahi *et al.* 2015), *Plutella xylostella* (L.) (Lep.: Plutellidae) (Golizadeh *et al.* 2008; Afiunizadeh Isfahani and Karimzadeh Isfahani 2010; Ghahari *et al.* 2012b; Rezaei *et al.* 2014; Hasanshahi *et al.* 2015), *Simyra dentinosa* Freyer (Lep.: Noctuidae) (Karimpour *et al.* 2005).

***Cotesia villana* (Reinhard, 1880)**

General distribution: Palaearctic.

Distribution in Iran: Qazvin (Ghahari *et al.* 2011b, reported as *Cotesia villanus*).

***Cotesia zygaenarum* (Marshall, 1885)**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Mazandaran (Ghahari *et al.* 2010a), Ilam (Ghahari *et al.* 2011a), Golestan (Samin *et al.* 2015a).

***Deuterixys rimulosa* (Niezabitowski, 1910)**

General distribution: Palaearctic.

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c).

***Diolcogaster alvearia* (Fabricius, 1798)**

General distribution: Palaearctic.

Distribution in Iran: Qazvin (Ghahari *et al.* 2011b).

***Diolcogaster claritibia* (Papp, 1959)**

General distribution: Palaearctic.

Distribution in Iran: Golestan (Ghahari and Fischer 2011c).

***Diolcogaster mayae* (Shestakov, 1932)**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Telenga 1955; Tobias 1976; 1986), Sistan & Baluchestan (Hedwig 1957, reported as *Microgaster iranensis*), Fars (Al-e-Mansour and Mostafavi 1993).

***Diolcogaster spreta* (Marshall, 1885)**

General distribution: Palaearctic.

Distribution in Iran: East Azarbaijan (Ghahari and Fischer 2011a), Zanjan (Samin 2015).

***Protapanteles (Protapanteles) immunis* (Haliday, 1834)**

General distribution: Nearctic and Palaearctic.

Distribution in Iran: West Azarbaijan (Ghahari *et al.* 2010c).

Hosts: *Saturnia pavonia* (L.) (Lep.: Saturniidae), *Orgyia antiqua* (L.) (Lep.: Lymantriidae) (Ghahari *et al.* 2010c).

***Protapanteles (Protapanteles) liparidis* (Bouché, 1834)**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Guilan (Bandar Anzali) (Herard *et al.* 1979, reported as *Apanteles liparidis*; Radjabi 1986), West Azarbaijan (Žikic *et al.* 2014, reported as *Apanteles liparidis*).

Host: *Phyllonorycter populifoliella* (Treitschke) (Lep.: Gracillariidae) (Žikic *et al.* 2014).

***Protapanteles (Protapanteles) mygdonia* (Nixon, 1973)**

General distribution: Palaearctic.

Distribution in Iran: East Azarbaijan (Ghahari *et al.* 2009b, reported as *Glyptapanteles mygdoniae*), Golestan (Samin *et al.* 2015).

***Protapanteles (Protapanteles) porthetriae* (Muesebeck, 1928)**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Markazi (Ghahari *et al.* 2011d, reported as *Glyptapanteles porthetriae*).

***Protapanteles (Protapanteles) vitripennis* (Curtis, 1830)**

General distribution: Oriental and Palaearctic.

Distribution in Iran: West Azarbaijan (Samin *et al.* 2014).

**Tribe Microgastrini Förster, 1862**

***Microgaster australis* Thomson, 1895**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Tobias 1986), Fars (Lashkari Bod *et al.* 2011a).

***Microgaster globata* (Linnaeus, 1758)**

General distribution: Palaearctic.

Distribution in Iran: East Azarbaijan (Telenga 1955), Isfahan (Ghahari *et al.* 2011c).

***Microgaster luctuosa* Haliday, 1834**

General distribution: Palaearctic.

Distribution in Iran: West Azarbaijan (Samin *et al.* 2014).

***Microgaster parvistriga* Thomson, 1895**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c), West Azarbaijan (Samin *et al.* 2014).

***Microgaster rufipes* Nees, 1834**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Nees 1834), Guilan (Ghahari *et al.* 2010a).

**Tribe Microplitini Mason, 1981*****Microplitis aduncus* (Ruthe, 1860)**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Papp 1984, reported as *Microgaster adunca*).

***Microplitis decipiens* Prell, 1925**

General distribution: Palaearctic.

Distribution in Iran: East Azarbaijan (Gadallah *et al.* 2015b).

***Microplitis deprimator* (Fabricius, 1798)**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Nixon 1968, reported as *Microgaster deprimator*).

***Microplitis fulvicornis* (Wesmael, 1837)**

General distribution: Palaearctic.

Distribution in Iran: Khorasan Razavi (Karimi-Malati *et al.* 2014).

Host: *Spodoptera exigua* (Hübner) (Lep.: Noctuidae) (Karimi-Malati *et al.* 2014).

***Microplitis marshallii* Kokujev, 1898**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Ardabil (Gadallah *et al.* 2015b).

***Microplitis ochraceus* Szépligeti, 1896**

General distribution: Palaearctic.

Distribution in Iran: Ardabil (Telenga 1955), no specific locality cited (Papp 1984; Tobias 1986), Golestan (Ghahari *et al.* 2011d), Alborz, Tehran (Farahani *et al.* 2014g).

***Microplitis rufiventris* Kokujev, 1914**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Alborz, Tehran (Farahani *et al.* 2014g), Qazvin (field research).

Remarks: *Spodoptera exigua* (Hübner, 1808) (Lep.: Noctuidae) (field research).

***Microplitis scrophulariae* Szépligeti, 1898**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Tobias 1976), Isfahan (Ghahari *et al.* 2011c).

***Microplitis spectabilis* (Haliday, 1834)**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c), East Azarbaijan (Rastegar *et al.* 2012).

***Microplitis spinolae* (Nees, 1834)**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Nixon 1970).

***Microplitis tuberculifer* (Wesmael, 1837)**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Ilam (Ghahari *et al.* 2011a).

***Microplitis viduus* (Ruthe, 1860)**

General distribution: Palaearctic.

Distribution in Iran: Qazvin (Ghahari *et al.* 2011b, reported as *Microplitis vidua*).

**Subfamily Microtypinae Szépligeti, 1908*****Microtypus desertorum* Shestakov, 1932**

General distribution: Palaearctic.

Distribution in Iran: Sistan & Baluchestan (Hedwig 1957), no specific locality cited (Tobias 1976, 1986), Alborz (Farahani *et al.* 2014e).

***Microtypus wesmaelii* Ratzeburg, 1848**

General distribution: Nearctic and Palaearctic.

Distribution in Iran: Fars (Al-e-Mansour and Mostafavi 1993), Guilan (Ghahari and Fischer 2011b; Sakenin *et al.* 2012; Farahani *et al.* 2014e), Kuhgiluyeh & Boyerahmad (Samin *et al.* 2015b).

#### **Subfamily Miracinae Viereck, 1918**

##### ***Centistidea (Paracentistidea) pistaciella* van Achterberg & Mehrnejad, 2002**

General distribution: Iran.

Distribution in Iran: Kerman (van Achterberg and Mehrnejad 2002).

Host: *Kermania pistaciella* Amsel (Lep.: Tineidae) (van Achterberg and Mehrnejad 2002).

##### ***Mirax caspiana* Farahani, Talebi, van Achterberg & Rakhshani, 2014**

General distribution: Iran.

Distribution in Iran: Guilan, Mazandaran (Farahani *et al.* 2014f).

##### ***Mirax rufilabris* Haliday, 1833**

General distribution: Palaearctic.

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c, reported as *Mirax dryochares* Marshall, 1898).

#### **Subfamily Opiinae Blanchard, 1845**

##### **Tribe Biosterini Fischer, 1970**

##### ***Biosteres (Biosteres) carbonarius* (Nees, 1834)**

General distribution: Nearctic and Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a).

##### ***Biosteres (Biosteres) longicauda* (Thomson, 1895)**

General distribution: Palaearctic.

Distribution in Iran: Khorasan Razavi (Samin *et al.* 2011), North Khorasan (Samin 2015).

##### ***Biosteres (Biosteres) remigii* Fischer, 1971**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Gadallah *et al.* 2016a).

##### ***Biosteres (Biosteres) spinaciae* (Thomson, 1895)**

General distribution: Nearctic and Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012).

##### ***Biosteres (Chilotrichia) arenarius* (Stelfox, 1959)**

General distribution: Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a).

##### ***Biosteres (Chilotrichia) blandus* (Haliday, 1837)**

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012).

##### ***Biosteres (Chilotrichia) brevipalpis* (Thomson, 1895)**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c).

##### ***Biosteres (Chilotrichia) haemorrhoeus* (Haliday, 1837)**

General distribution: Nearctic and Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c), West Azarbaijan (Rastegar *et al.* 2012).

Remarks: Khajeh *et al.* (2014b) had erroneously recorded from East Azarbaijan province with reference to Rastegar *et al.* (2012).

##### ***Biosteres (Chilotrichia) punctiscuta* (Thomson, 1895)**

General distribution: Palaearctic.

Distribution in Iran: Kordestan (Gadallah *et al.* 2016a).

##### ***Biosteres (Chilotrichia) rusticus* (Haliday, 1837)**

General distribution: Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a).

Remarks: Khajeh *et al.* (2014b) had erroneously recorded from Guilan province with reference to Ghahari *et al.* (2012a).

##### ***Biosteres (Chilotrichia) wesmaelii* (Haliday, 1837)**

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012, reported as *Biosteres ultor* (Förster 1862)).

**Tribe Opiini Blanchard, 1845*****Atormus victus* (Haliday, 1837)**

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012).

***Eurytenes (Eurytenes) abnormis* (Wesmael, 1835)**

General distribution: Nearctic and Palaearctic.

Distribution in Iran: West Azarbaijan (Gadallah *et al.* 2016a).

***Eurytenes (Jucundopius) campanariae* (Fischer, 1959)**

General distribution: Palaearctic.

Distribution in Iran: Semnan (Ghahari *et al.* 2011d).

***Eurytenes (Stigmatopoea) macrocerus* (Thomson, 1895)**

General distribution: Nearctic and Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a, reported as *Opius (Xynobius) macrocerus*), Guilan (Sakenin *et al.* 2012, repoted as *Opius (Xynobius) macrocerus*).

***Eurytenes (Xynobiotenes) scutellatus* (Fischer, 1962)**

General distribution: Palaearctic.

Distribution in Iran: Tehran (Fischer 1990), Fars (Lashkari Bod *et al.* 2011a).

***Fopius carpomyiae* (Silvestri, 1916)**

General distribution: Oriental, Iran

Distribution in Iran: Bushehr (Farrar and Chou 2000; Farrar *et al.* 2004, 2009, 2012).

Host: *Carpomya vesuviana* Costa (Dip.: Tephritidae) (Farrar and Chou 2000; Farrar *et al.* 2004, 2009, 2012).

Remarks: This species introduced to Iran.

***Indiopiopus cretensis* Fischer, 1983**

General distribution: Oceanic and Palaearctic.

Distribution in Iran: Sistan & Bluchestan (Peris-Felipo *et al.* 2014).

***Opiognathus propodealis* (Fischer, 1958)**

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012; Gadallah *et al.* 2016a,

reported as *Opius (Opiognathus) propodealis*; Gadallah *et al.* 2016a).

***Opius (Agnopius) novosimilis* Fischer, 1989**

General distribution: Iran and Slovakia.

Distribution in Iran: Hormozgan (Ameri *et al.* 2014d).

***Opius (Agnopius) nowakowskii* Fischer, 1959**

General distribution: Palaearctic.

Distribution in Iran: Hormozgan (Ameri *et al.* 2014d).

***Opius (Agnopius) rex* Fischer, 1958**

General distribution: Palaearctic.

Distribution in Iran: Mazandaran (Ghahari *et al.* 2011d), Ardabil (Ghahari and Fischer 2011b).

***Opius (Agnopius) similis* Szépligeti, 1898**

General distribution: Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a), Golestan (Sakenin *et al.* 2012).

***Opius (Agnopius) tirolensis* Fischer, 1958**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c), Hormozgan (Ameri *et al.* 2014d).

***Opius (Allophlebus) singularis* Wesmael, 1835**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c).

***Opius (Allophlebus) tabificus* Papp, 1979**

General distribution: Palaearctic.

Distribution in Iran: Sistan & Baluchestan (Khajeh *et al.* 2014b), Hormozgan (Ameri *et al.* 2014d).

***Opius (Allotypus) damnosus* Papp, 1980**

General distribution: Iran, Korea and Russia.

Distribution in Iran: Hormozgan (Ameri *et al.* 2014d).

***Opius (Allotypus) irregularis* Wesmael, 1835**

General distribution: Nearctic and Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a).

***Opius (Allotypus) tuberculatus* Fischer, 1959**

General distribution: Palaearctic.

Distribution in Iran: Khorasan Razavi (Ghahari *et al.* 2011d).

***Opius (Apodesmia) aethiops* Haliday, 1837**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c), Ardabil (Rastegar *et al.* 2012).

***Opius (Apodesmia) karesuandensis* Fischer, 1964**

General distribution: Nearctic and Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012).

***Opius (Apodesmia) sharynensis* (Fischer, 2001)**

General distribution: Iran and Kazakhstan.

Distribution in Iran: Alborz (Fischer 2001).

***Opius (Cryptognathopus) uttoisimilis* Fischer, 1999**

General distribution: Palaearctic.

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c).

***Opius (Cryptonastes) pygmaeus* Fischer, 1962**

General distribution: Palaearctic.

Distribution in Iran: Fars (Lashkari Bod *et al.* 2010, 2011a), Lorestan (Ghahari *et al.* 2012a).

***Opius (Cryptonastes) tersus* (Förster, 1862)**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c).

***Opius (Gastrosema) caucasi* Tobias, 1986**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c), East Azarbaijan (Rastegar *et al.* 2012), Hormozgan (Ameri *et al.* 2014d).

***Opius (Gastrosema) pumilio* Wesmael, 1835**

General distribution: Palaearctic.

Distribution in Iran: Fars (Lashkari Bod *et al.* 2010, 2011a).

***Opius (Hypocynodus) arundinis* Fischer, 1964**

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012), Sistan & Baluchestan (Khajeh *et al.* 2014b).

***Opius (Hypocynodus) bouceki* Fischer, 1958**

General distribution: Palaearctic.

Distribution in Iran: Sistan & Baluchestan (Khajeh *et al.* 2014b).

***Opius (Hypocynodus) crassipes* Wesmael, 1835**

General distribution: Palaearctic.

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c, reported as *Opius (Phaedrotoma) crassipes*), Guilan (Ghahari *et al.* 2012c).

***Opius (Hypocynodus) flavipes* Szepligeti, 1898**

General distribution: Western Palaearctic.

Distribution in Iran: Hormozgan (Ameri *et al.* 2014d).

***Opius (Hypocynodus) latidens* Fischer, 1990**

General distribution: Western Palaearctic.

Distribution in Iran: Hormozgan (Ameri *et al.* 2014d).

***Opius (Hypocynodus) latipediformis* Fischer, 2004**

General distribution: Denmark and Iran.

Distribution in Iran: Hormozgan (Ameri *et al.* 2014d).

***Opius (Hypocynodus) robustus* Telenga, 1950**

General distribution: Palaearctic.

Distribution in Iran: Fars (Lashkari Bod *et al.* 2010, 2011a).

***Opius (Merotrachys) penetrator* Fischer, 1966**

General distribution: Australia and Iran.

Distribution in Iran: Hormozgan (Ameri *et al.* 2014d).

Remarks: This species may have been introduced to Iran along with agricultural food products (Ameri *et al.* 2014d).

***Opius (Misophthora) basalis* Fischer, 1958**

General distribution: Palaearctic.

Distribution in Iran: Mazandaran (Ghahari and Fischer 2011b; Sakenin *et al.* 2012).

Host: *Agromyza* sp. (Dip.: Agromyzidae) (Sakenin *et al.* 2012).

***Opius (Misophthora) monilicornis* Fischer, 1962**

General distribution: Palaearctic.

Distribution in Iran: West Azarbaijan (Adldoost 1995), Mazandaran (Ghahari *et al.* 2010a; Sakenin *et al.* 2012), Lorestan (Ghahari *et al.* 2012a).

Host: *Liriomyza cicerina* (Rondani) (Dip.: Agromyzidae) (Adlidoost 1995).

***Opius (Misophthora) occulusus* Telenga, 1950**

General distribution: Western Palaearctic.  
Distribution in Iran: Tehran (Varamin) (Ghahari *et al.* 2011d).

***Opius (Misophthora) seductus* Fischer, 1959**

General distribution: Palaearctic.  
Distribution in Iran: Isfahan (Ghahari *et al.* 2011c).

***Opius (Misophthora) wachsmanni* Szépligeti, 1898**

General distribution: Palaearctic.  
Distribution in Iran: Lorestan (Ghahari *et al.* 2012a).

***Opius (Nosopoea) ambiguus* Wesmael, 1835**

General distribution: Palaearctic.  
Distribution in Iran: Isfahan (Ghahari *et al.* 2011c).

***Opius (Nosopoea) cingulatus* Wesmael, 1835**

General distribution: Palaearctic.  
Distribution in Iran: Kermanshah (Ghahari and Fischer 2012).

***Opius (Nosopoea) circulator* (Nees, 1834)**

General distribution: Palaearctic.  
Distribution in Iran: Guilan (Ghahari *et al.* 2012c).

***Opius (Nosopoea) maculipes* Wesmael, 1835**

General distribution: Palaearctic.  
Distribution in Iran: Tehran (Fischer 1990), Guilan (Ghahari *et al.* 2012c), East Azarbaijan (Rastegar *et al.* 2012).

***Opius (Nosopoea) teheranensis* Fischer, 1990**

General distribution: Iran.  
Distribution in Iran: Tehran (Fischer 1990).

***Opius (Odontopoea) commivens* Thomson, 1895**

General distribution: Palaearctic.  
Distribution in Iran: Guilan (Ghahari *et al.* 2012c).

***Opius (Opiostomus) riphaeus* Tobias, 1986**

General distribution: Iran and Russia.  
Distribution in Iran: Hormozgan (Ameri *et al.* 2014d).

***Opius (Opiothorax) abditus* Fischer, 1960**

General distribution: Iran and Turkey.  
Distribution in Iran: Lorestan (Ghahari *et al.* 2012a), Golestan (Sakenin *et al.* 2012).

***Opius (Opiothorax) filicornis* Thomson, 1895**

General distribution: Palaearctic.  
Distribution in Iran: Guilan (Ghahari *et al.* 2012c), East Azarbaijan (Rastegar *et al.* 2012), Sistan & Baluchestan (Khajeh *et al.* 2014b).

***Opius (Opiothorax) latistigma* Fischer, 1960**

General distribution: Palaearctic.  
Distribution in Iran: Khorasan Razavi (Ghahari *et al.* 2011d).

***Opius (Opiothorax) levis* Wesmael, 1835**

General distribution: Afrotropical and Palaearctic.  
Distribution in Iran: Fars (Lashkari Bod *et al.* 2010, 2011a), Kermanshah (Ghahari and Fischer 2012), Sistan & Baluchestan (Khajeh *et al.* 2014b).

***Opius (Opiothorax) longicornis* Thomson, 1895**

General distribution: Palaearctic.  
Distribution in Iran: Guilan (Ghahari *et al.* 2012c).  
Remarks: Khajeh *et al.* (2014b) had recorded as *Opius (Pendopius) longicornis* Chen & Weng, 2005 and had erroneously reported general distribution.

***Opius (Opiothorax) loniceræ* Fischer, 1958**

General distribution: Palaearctic.  
Distribution in Iran: Kermanshah (Ghahari and Fischer 2012).

***Opius (Opiothorax) magnicauda* Fischer, 1958**

General distribution: Palaearctic.  
Distribution in Iran: Golestan (Ghahari *et al.* 2011d).

***Opius (Opiothorax) minusculæ* Fischer, 1967**

General distribution: Palaearctic.  
Distribution in Iran: Hormozgan (Ameri *et al.* 2014d).

***Opius (Opiothorax) mirabilis* Fischer, 1958**

General distribution: Oriental and Palaearctic.



Distribution in Iran: Kermanshah (Ghahari and Fischer 2012).

***Opius (Opiothorax) nigricoloratus* Fischer, 1958**

General distribution: Palaearctic.

Distribution in Iran: Semnan (Ghahari *et al.* 2010b; Samin 2015), Guilan (Ghahari *et al.* 2012c).

***Opius (Opiothorax) opacus* Fischer, 1968**

General distribution: Palaearctic.

Distribution in Iran: Sistan & Baluchestan (Khajeh *et al.* 2014b).

***Opius (Opiothorax) turcicus* Fischer, 1960**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Markazi (Ghahari *et al.* 2011d).

***Opius (Opius) caricivora* Fischer, 1964**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Sistan & Baluchestan (Khajeh *et al.* 2014b).

***Opius (Opius) curticornis* Fischer, 1960**

General distribution: Western Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a).

Remarks: Khajeh *et al.* (2014b) had erroneously recorded from Guilan province with reference to Ghahari *et al.* (2012a).

***Opius (Opius) lugens* Haliday, 1837**

General distribution: Afrotropical and Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012).

***Opius (Opius) pallipes* Wesmael, 1835**

General distribution: Nearctic, Oriental and Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c), Sistan & Baluchestan (Khajeh *et al.* 2014b, reported as *Opius (Opius) exilis* Haliday, 1837).

***Opius (Opius) paraplasticus* Fischer, 1972**

General distribution: Iran and South Africa.

Distribution in Iran: Semnan (Ghahari *et al.* 2010b), Golestan (Samin *et al.* 2015a).

***Opius (Pendopius) bajariae* Fischer, 1989**

General distribution: Western Palaearctic.

Distribution in Iran: Hormozgan (Ameri *et al.* 2014d).

***Opius (Pendopius) pendulus* Haliday, 1837**

General distribution: Nearctic and Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a), Semnan (Naderian *et al.* 2012), Sistan & Baluchestan (Khajeh *et al.* 2014b), Hormozgan (Ameri *et al.* 2014d).

Remarks: Ameri *et al.* (2014d) had erroneously recorded from Isfahan province with reference to Ghahari *et al.* (2011c).

***Opius (Snoflakopius) snoflaki* Fischer, 1959**

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012).

***Phaedrotoma biro* (Fischer, 1960)**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Golestan (Ghahari *et al.* 2011d, reported as *Opius (Phaedrotoma) biro*), Sistan & Baluchestan (Khajeh *et al.* 2014b).

***Phaedrotoma biroica* (Fischer & Beyarslan, 2005)**

General distribution: Iran and Turkey.

Distribution in Iran: Sistan & Baluchestan (Khajeh *et al.* 2014b).

***Phaedrotoma depeculator* Förster, 1862**

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012, reported as *Opius (Phaedrotoma) depeculator*).

***Phaedrotoma diversa* (Szépligeti, 1898)**

General distribution: Palaearctic.

Distribution in Iran: Ardabil (Rastegar *et al.* 2012, reported as *Opius (Phaedrotoma) diversa*), Guilan (Ghahari *et al.* 2012c, reported as *Opius (Phaedrotoma) diversa*), Sistan & Baluchestan (Khajeh *et al.* 2014b).

***Phaedrotoma diversiformis* (Fischer, 1960)**

General distribution: Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a, reported as *Opius (Phaedrotoma) diversiformis*), Golestan (Sakenin *et al.* 2012, reported as *Opius (Phaedrotoma) diversiformis*).

***Phaedrotoma exigua* (Wesmael, 1835)**

General distribution: Afrotropical, Oriental and Palaearctic.

Distribution in Iran: Tehran (Fischer 1990), Lorestan (Ghahari *et al.* 2012a, *Opius* (*Phaedrotoma*) *exiguus*), Sistan & Baluchestan (Khajeh *et al.* 2014b).

***Phaedrotoma mirabunda* (Papp, 1982)**

General distribution: Western Palaearctic.

Distribution in Iran: Sistan & Baluchestan (Khajeh *et al.* 2014b).

***Phaedrotoma pulchriceps* (Szépligeti, 1898)**

General distribution: Nearctic, Oriental and Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c, reported as *Opius* (*Phaedrotoma*) *pulchriventris* (Fischer, 1958)), East Azarbaijan (Rastegar *et al.* 2012, reported as *Opius pulchriceps* Szépligeti, 1898).

Remarks: According to van Achterberg (2014), *Phaedrotoma pulchriceps* (Szépligeti, 1898) is synonym with *Phaedrotoma pulchriventris* (Fischer, 1958).

***Pokomandya curticornis* Fischer, 1959**

General distribution: Palaearctic.

Distribution in Iran: East Azarbaijan (Ghahari *et al.* 2009c).

***Psytalia concolor* (Szépligeti, 1910)**

General distribution: Afrotropical, Oceanic and Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a), Semnan (Naderian *et al.* 2012).

***Rhogadopsis reconditor* (Wesmael, 1835)**

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012, as *Opius docilis* Haliday, 1837).

Remarks: According to van Achterberg (2014), *Rhogadopsis reconditor* is synonym with *Opius docilis* Haliday, 1837.

***Utetes coracinus* (Thomson, 1895)**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c, reported as *Opius* (*Utetes*) *coracinus*).

***Utetes ferrugator* (Goureau, 1862)**

General distribution: Palaearctic.

Distribution in Iran: Ardabil (Ghahari and Fischer 2011b, reported as *Opius* (*Utetes*) *magnus* on *Rhagoletis* sp.), Guilan (Ghahari *et al.* 2012c, reported as *Opius* (*Utetes*) *magnus*), West Azarbaijan (Rastegar *et al.* 2012, reported as *Opius* (*Utetes*) *magnus*).

Remarks: According to van Achterberg (2014), *Utetes magnus* is a synonym of *Utetes ferrugator*.

***Utetes testaceus* (Wesmael, 1838)**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c, reported as *Opius* (*Utetes*) *testaceus*).

***Utetes truncatus* (Wesmael, 1835)**

General distribution: Palaearctic.

Distribution in Iran: Lorestan (Ghahari *et al.* 2012a, reported as *Opius* (*Utetes*) *truncatus*).

Remarks: Khajeh *et al.* (2014b) had erroneously recorded from Guilan province with reference to Ghahari *et al.* (2012a).

***Xynobius aciculatus* (Thomson, 1895)**

General distribution: Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012, reported as *Opius* (*Xynobius*) *aciculatus*).

***Xynobius decoratus* (Stelfox, 1949)**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Ghahari *et al.* 2012c, reported as *Opius* (*Xynobius*) *decoratus*), East Azarbaijan (Rastegar *et al.* 2012, reported as *Opius* (*Xynobius*) *decoratus*).

***Xynobius rudis* (Wesmael, 1835)**

General distribution: Nearctic and Palaearctic.

Distribution in Iran: Kermanshah (Ghahari and Fischer 2012, reported as *Opius* (*Xynobius*) *rudis*), Sistan & Baluchestan (Khajeh *et al.* 2014b).

**Subfamily Orgilinae Ashmead, 1900****Tribe Orgilini Ashmead, 1900*****Orgilus abbreviator* (Ratzeburg, 1852)**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Taeger 1989, reported as *Orgilus nanellae* Tobias, 1986).

***Orgilus hungaricus* Szépligeti, 1896**

General distribution: Palaearctic.

Distribution in Iran: East Azarbaijan (Ghahari *et al.* 2009c)

***Orgilus ischnus* Marshall, 1898**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Alborz, Tehran (Farahani *et al.* 2014e).

***Orgilus meyeri* Telenga, 1933**

General distribution: Palaearctic.

Distribution in Iran: Tehran (Taeger 1989), Alborz, Guilan, Mazandaran (Farahani *et al.* 2014e).

***Orgilus nitidior* Taeger, 1989**

General distribution: Azerbaijan and Iran.

Distribution in Iran: Alborz, Guilan, Tehran (Farahani *et al.* 2014e).

***Orgilus obscurator* (Nees, 1812)**

General distribution: Nearctic, Neotropical and Palaearctic.

Distribution in Iran: Tehran (Sabzevari 1968; Radjabi 1986).

Host: *Recurvoaia nanella* (Denis & Schiffermüller) (Lep.: Gelechiidae) (Sabzevari 1968).

***Orgilus pimpinellae* Niezabitowski, 1910**

General distribution: Palaearctic.

Distribution in Iran: Mazandaran (Ghahari *et al.* 2010a), Guilan, Qazvin (Farahani *et al.* 2014e), Golestan (Samin *et al.* 2015a).

***Orgilus ponticus* Tobias, 1986**

General distribution: Palaearctic.

Distribution in Iran: West Azarbaijan (Ghahari and Fischer 2011a), Golestan (Samin *et al.* 2015a).

***Orgilus punctiventris* Tobias, 1976**

General distribution: Palaearctic.

Distribution in Iran: Guilan (Farahani *et al.* 2014e).

***Orgilus priesneri* Fischer, 1958**

General distribution: Afrotropical and Palaearctic.

Distribution in Iran: Fars (Lashkari Bod *et al.* 2010, 2011a, reported as *Orgilus kazakhstanicus*).

***Orgilus temporalis* Tobias, 1976**

General distribution: Palaearctic.

Distribution in Iran: Mazandaran (Farahani *et al.* 2014e).

***Orgilus tobiassi* Taeger, 1989**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Taeger 1989).

**Subfamily Pambolinae Marshall, 1885**

**Tribe Pambolini Marshall, 1885**

***Pambolus (Phaenodus) pallipes* (Förster, 1862)**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Belokobylskij 1998).

**Subfamily Rhysipolinae Belokobylskij, 1984**

***Cerophanes kerzhneri* Tobias, 1971**

General distribution: Palaearctic.

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c, reported as subfamily Exothecinae), East Azarbaijan (Rastegar *et al.* 2012, reported as subfamily Exothecinae).

***Rhysipolis decorator* (Haliday, 1836)**

General distribution: Nearctic and Palaearctic.

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c, reported as subfamily Exothecinae).

***Rhysipolis mediator* (Haliday, 1836)**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c, reported as subfamily Exothecinae and *Rhysipolis similis* (Szépligeti, 1896)), West Azarbaijan (Rastegar *et al.* 2012, reported as *R. similis*).

**Subfamily Rhyssalinae Förster, 1862**

***Histeromerus mystacinus* Wesmael, 1838**

General distribution: Palaearctic.

Distribution in Iran: Mazandaran (Ghahari and Fischer 2011b; Sakenin *et al.* 2012), Golestan (Samin *et al.* 2015a).

**Tribe Acrisidini Hellén, 1957*****Acrisis brevicornis* Hellén, 1957**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Belokobylskij 1998).

***Acrisis suomii* Tobias, 1983**

General distribution: Finland and Iran.

Distribution in Iran: Guilan (Farahani *et al.* 2015d).

**Subfamily Rogadinae Förster, 1862****Tribe Aleiodini Muesebeck, 1928*****Aleiodes (Aleiodes) alternator* (Nees, 1834)**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Guilan (Farahani *et al.* 2015a).

***Aleiodes (Aleiodes) arnoldii* (Tobias, 1976)**

General distribution: Palaearctic.

Distribution in Iran: Alborz, Guilan, Mazandaran, Tehran (Farahani *et al.* 2015a).

***Aleiodes (Aleiodes) bicolor* (Spinola, 1808)**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Telenga 1941), Sistan & Baluchestan (Hedwig 1957), Mazandaran (Ghahari *et al.* 2009a; Farahani *et al.* 2015a), Isfahan (Ghahari *et al.* 2011c), Fars (Lashkari Bod *et al.* 2011a), Alborz, Guilan, Tehran (Farahani *et al.* 2015a).

Remarks: This species frequently collected.

***Aleiodes (Aleiodes) circumscriptus* (Nees, 1834)**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Telenga 1941; Shenefelt 1975), Golestan (Ghahari *et al.* 2009a), Fars (Lashkari Bod *et al.* 2011a), Ilam (Ghahari *et al.* 2011a), West Azarbaijan (Rastegar *et al.* 2012), Guilan, Mazandaran (Farahani *et al.* 2015a).

***Aleiodes (Aleiodes) compressor* (Herrich-Schäffer, 1838)**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Ilam (Ghahari *et al.* 2011a, reported as *Petalodes compressor*).

Remarks: According to van Achterberg (2014), genus *Petalodes* Wesmael is a synonym with *Aleiodes*.

***Aleiodes (Aleiodes) crassipes* (Thomson, 1892)**

General distribution: Palaearctic.

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c).

Remarks: This species need to be re-confirmed (Farahani *et al.* 2015a).

***Aleiodes (Aleiodes) esenbeckii* (Hartig, 1838)**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Khorasan Razavi (Samin *et al.* 2011), East Azarbaijan (Samin 2015).

***Aleiodes (Aleiodes) gastritor* (Thunberg, 1822)**

General distribution: Nearctic, Oceanic, Oriental and Palaearctic.

Distribution in Iran: Sistan & Baluchestan (Hedwig 1957, *Rogas testaceus*), East Azarbaijan (Ghahari *et al.* 2009a, reported as *Rogas rossicus* Kokujev, 1898; Rastegar *et al.* 2012), Qazvin (Ghahari *et al.* 2011b).

***Aleiodes (Aleiodes) nigricornis* Wesmael, 1838**

General distribution: Palaearctic.

Distribution in Iran: Ilam (Ghahari *et al.* 2011a).

***Aleiodes (Aleiodes) nocturnus* Telenga, 1941**

General distribution: Palaearctic.

Distribution in Iran: No specific locality cited (Telenga 1941; Shenefelt 1975; Tobias 1986), Tehran, Guilan (Farahani *et al.* 2015a).

***Aleiodes (Aleiodes) pallescens* Hellén, 1927**

General distribution: Oriental and Palaearctic.

Distribution in Iran: Isfahan (Ghahari *et al.* 2011c), Ardabil (Rastegar *et al.* 2012).

Remarks: This species need to be re-confirmed (Farahani *et al.* 2015a).

***Aleiodes (Aleiodes) pallidator* (Thunberg, 1822)**

General distribution: Nearctic, Neotropical, Oriental and Palaearctic.

Distribution in Iran: Kerman (Ghahari *et al.* 2010b), Qazvin (Ghahari *et al.* 2011b), Khuzestan (Samin *et al.* 2015b).

***Aleiodes (Aleiodes) seriatus (Herrich-Schäffer, 1838)***

General distribution: Oriental and Palaearctic.  
Distribution in Iran: Mazandaran (Farahani *et al.* 2015a).

***Aleiodes (Aleiodes) signatus (Nees, 1811)***

General distribution: Palaearctic.  
Distribution in Iran: Qazvin (Ghahari *et al.* 2011b), West Azarbaijan (Samin *et al.* 2014).

***Aleiodes (Chelonorhogas) aestuosus (Reinhard, 1863)***

General distribution: Oriental and Palaearctic.  
Distribution in Iran: Mazandaran (Farahani *et al.* 2015a).

***Aleiodes (Chelonorhogas) agilis (Telenga, 1941)***

General distribution: Palaearctic.  
Distribution in Iran: No specific locality cited (Telenga 1941; Shenefelt 1975; Tobias 1976, 1986).

***Aleiodes (Chelonorhogas) apicalis (Brullé, 1832)***

General distribution: Palaearctic.  
Distribution in Iran: Sistan & Baluchestan (Hedwig 1957, reported as *A. ductor*), no specific locality cited (Tobias 1976, 1986, reported as *A. ductor*), Isfahan (Ghahari *et al.* 2011c, reported as *A. ductor*), West Azarbaijan (Samin *et al.* 2014, reported as *A. ductor*), Guilan, Mazandaran (Farahani *et al.* 2015a).

***Aleiodes (Chelonorhogas) dimidiatus (Spinola, 1808)***

General distribution: Oriental and Palaearctic.  
Distribution in Iran: No specific locality cited (Telenga 1941).

***Aleiodes (Chelonorhogas) eurinus (Telenga, 1941)***

General distribution: Oriental and Palaearctic.  
Distribution in Iran: Guilan (Farahani *et al.* 2015a).

***Aleiodes (Chelonorhogas) gasterator (Jurine, 1807)***

General distribution: Palaearctic.  
Distribution in Iran: Isfahan (Ghahari *et al.* 2011c), East Azarbaijan (Rastegar *et al.* 2012).

***Aleiodes (Chelonorhogas) rufipes (Thomson, 1892)***

General distribution: Oriental and Palaearctic.  
Distribution in Iran: Ilam (Ghahari *et al.* 2011a).

***Aleiodes (Chelonorhogas) unipunctator (Thunberg, 1822)***

General distribution: Palaearctic.  
Distribution in Iran: Qazvin (Ghahari *et al.* 2011b), Guilan (Sakenin *et al.* 2012), East Azarbaijan (Rastegar *et al.* 2012).

***Heterogamus dispar (Haliday, 1833)***

General distribution: Oriental and Palaearctic.  
Distribution in Iran: Mazandaran (Farahani *et al.* 2015a).

**Tribe Clinocentrini van Achterberg, 1991*****Clinocentrus cunctator (Haliday, 1836)***

General distribution: Palaearctic.  
Distribution in Iran: Qazvin (Ghahari *et al.* 2011b, reported as subfamily Hormiinae), Mazandaran (Sakenin *et al.* 2012, reported as subfamily Hormiinae), Ardabil (Rastegar *et al.* 2012, reported as subfamily Hormiinae).

***Clinocentrus excubitor (Haliday, 1836)***

General distribution: Oriental and Palaearctic.  
Distribution in Iran: Mazandaran (Farahani *et al.* 2015a).

***Clinocentrus exsertor (Nees, 1811)***

General distribution: Nearctic and Palaearctic.  
Distribution in Iran: Isfahan (Ghahari *et al.* 2011c, reported as subfamily Hormiinae), Guilan (Farahani *et al.* 2015a).

**Tribe Yeliconini van Achterberg, 1991*****Yelicones iranus (Fischer, 1963)***

General distribution: Iran.  
Distribution in Iran: Kerman (Fischer 1963, reported as *Pectenopijs iranus*).

**Subfamily Sigalphinae Haliday, 1833****Tribe Sigalphini Haliday, 1833*****Sigalphus irrorator (Fabricius, 1775)***

General distribution: Palaearctic.  
Distribution in Iran: Golestan (Ghahari *et al.* 2010b; Samin *et al.* 2015a).

## Discussion

Differences in species diversity and numbers of braconid wasps in Iran and its adjacent countries are given in Table 1. In comparison with the adjacent countries, major number of subfamilies occurred in Iran but the maximum number of species has been reported from Turkey. Turkey with 859 recorded species has the highest diversity followed by Iran, Azerbaijan and Turkmenistan countries with 780, 556 and 300 species, respectively. Afghanistan, Pakistan and Iraq countries have the lowest number of recorded species with 104, 81 and 41 species, respectively.

This review study showed that, 780 braconid species belonging to 26 subfamilies are presented in Iran. The most species-rich subfamilies were Braconinae (115 species), Microgasterinae (102 species), Opiinae (95 species) and Alysiinae (84 species). However some subfamilies such as Ichneutinae, Pambolinae and Sigalphinae are represented in Iran by a single species.

The review of braconid species showed that 34 species are exclusively distributed in Iran (Table 2). These species can be locally endemic or possibly found outside Iran, by subsequent studies.

Except the subfamily Aphidiinae, host associations of braconid wasps in Iran is poorly studied (Table 3). Aphidiinae has been successfully used for biological control aphids (Starý 2006). Taxonomy, host selection behavior, and ecological studies may be valuable in use as biological agents (Rehman and Powell 2010). Ecology and biology of important aphid parasitoid species were studied in Iran, for example, *Trioxys pallidus* (Rakhshani *et al.* 2004), *Diaeretiella rapae* (Fathipour *et al.* 2006; Tazerouni *et al.* 2011, 2012a, 2012b),

*Lysiphlebus fabarum* (Bagheri-Matin *et al.* 2005, 2009), *Praon volucre* (Farhad *et al.* 2011, 2012; Pasandideh *et al.* 2015), *Aphidius colemani*, *Aphidius matricariae* (Zamani *et al.* 2006, 2007, 2012; Tahriri *et al.* 2007, 2010), *Aphis gossypii* (Tazerouni *et al.* 2016). In other subfamilies, the biology of *Habrobracon hebetor* (Braconinae) has been studied and several attempts have been made to mass rearing it in Iran (Amir-Maafi and Chi 2006; Forouzan *et al.* 2008; Faal-Mohammad-Ali and Shishehbor 2013; Saadat *et al.* 2014; Borzoui *et al.* 2016).

Guilan province with 176 recorded species (22.51%) has the highest diversity followed by Mazandaran, Tehran and Golestan provinces with 121 (15.47%), 109 (13.94%) and 101 (12.92%) species, respectively. Yazd, Bushehr and South Khorasan provinces have the lowest number of recorded species (Fig. 1).

Among the recorded braconid species from Iran, eight species are considered to be incorrect records. These species are listed in Table 4 and omitted from the current checklist. Considering the variety of climate and different ecological conditions which led to heterogeneity of flora and fauna in Iran, descriptions of additional new braconid taxa are still to be expected. Much more efforts should be made to identify more information about the distribution of the Iranian braconid wasps and their host association data.

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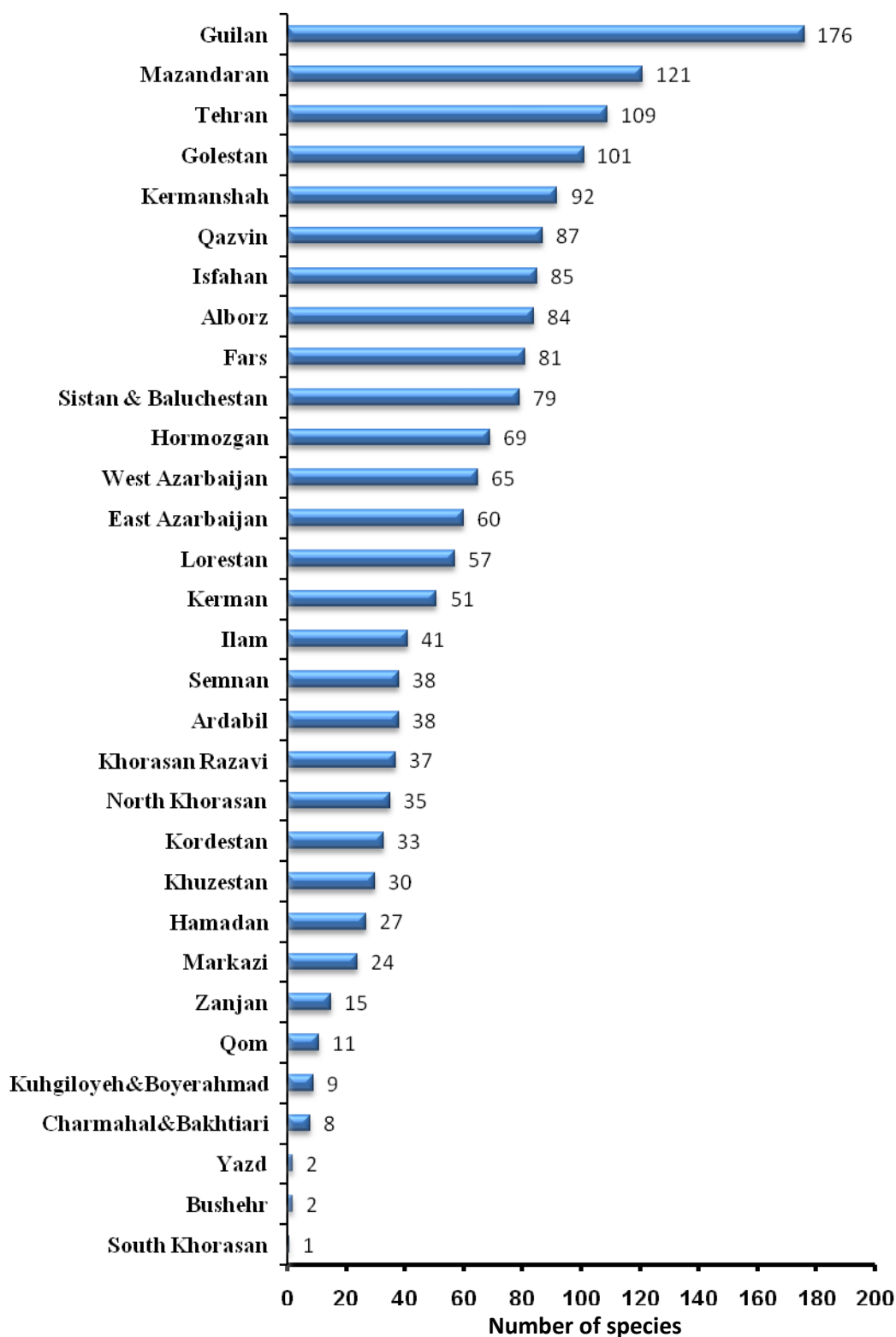


Figure 1. Number of reported species of Iranian braconid wasps by province.

**Table 1.** Comparison of the number of species of subfamilies Braconidae recorded in Iran and adjacent countries (data taken from Yu *et al.* 2012).

Subfamily	Iran	No. species in adjacent countries					
		Afghanista n	Azerbaijan	Iraq	Pakistan	Turkey	Turkmenistan
Agathidinae	33	2	30	0	2	38	11
Alysiinae	85	9	107	1	1	31	13
Aphidiinae	73	7	7	28	35	47	7
Blacinae	15	4	7	0	0	21	4
Brachistinae	18	2	25	0	0	10	7
Braconinae	115	23	88	4	11	171	70
Cardiochilinae	7	2	4	0	2	4	20
Cenocoeliinae	0	0	1	0	0	0	0
Charmontinae	0	0	1	0	0	0	0
Cheloninae	67	9	54	1	6	71	57
Dirrhopinae	0	0	0	0	0	0	0
Doryctinae	31	1	23	1	3	5	12
Euphorinae	53	2	34	1	0	63	5
Exothecinae	0	0	2	0	0	0	1
Gnamptodontinae	4	0	0	0	0	0	0
Helconinae	9	0	4	0	0	8	1
Histeromerinae	0	0	0	1	0	0	0
Homolobinae	3	1	2	0	0	1	1
Hormiinae	10	6	4	0	0	1	8
Ichneutinae	1	0	2	0	0	0	0
Lysiterminae	0	0	0	0	0	0	0
Macrocentrinae	7	1	11	0	2	5	3
Meteorideinae	0	0	0	0	0	0	0
Microgastrinae	102	18	112	2	17	167	54
Microtypinae	2	0	0	0	0	2	1
Miracinae	3	1	1	0	0	3	0
Opiinae	95	6	3	2	1	169	10
Orgilinae	12	2	8	0	1	22	1
Pambolinae	1	0	0	0	0	1	0
Rhysipolinae	3	0	3	0	0	0	1
Rhyssalinae	3	0	2	0	0	0	0
Rogadinae	27	8	21	0	0	19	13
Sigalphinae	1	0	0	0	0	0	0
<b>No. subfamily</b>	26	18	25	9	11	21	21
<b>Total species</b>	780	104	556	41	81	859	300



**Table 2.** The braconid wasp species (Hymenoptera: Braconidae) exclusively reported from Iran.

Subfamily	Species	Locations (province)	References
<b>Agathidinae</b>	<i>Lytopylus persicus</i>	Guilan, Mazandaran	Farahani <i>et al.</i> (2014a)
	<i>Cremonops richteri</i>	Sistan & Baluchestan	Hedwig (1957)
<b>Alysiinae</b>	<i>Aspilota alfalfae</i>	Fars	Fischer <i>et al.</i> (2011)
	<i>Aristelix persica</i>	Hormozgan	Peris-Felipo <i>et al.</i> (2015)
	<i>Chorebus axillaris</i>	Fars	Fischer <i>et al.</i> (2011)
	<i>Chorebus longiarticulis</i>	Fars	Fischer <i>et al.</i> (2011)
		Kerman	Ghotbi Ravandi <i>et al.</i> (2015)
	<i>Chorebus nigridiremptus</i>	Fars	Fischer <i>et al.</i> (2011)
	<i>Chorebus properesan</i>	Fars	Fischer <i>et al.</i> (2011)
	<i>Chorebus zarghanensis</i>	Fars	Fischer <i>et al.</i> (2011)
<b>Aphidiinae</b>	<i>Aphidius iranicus</i>	Guilan	Tomanović <i>et al.</i> (2007) Talebi <i>et al.</i> (2009)
	<i>Aphidius stigmaticus</i>	Hamadan	Rakhshani <i>et al.</i> (2011)
	<i>Tanytrichophorus petiolaris</i>	Tehran	Starý <i>et al.</i> (2000)
	<i>Trioxys metacarpalis</i>	North Khorasan	Rakhshani <i>et al.</i> (2008c) Rakhshani <i>et al.</i> (2012b)
<b>Braconinae</b>	<i>Iphiaulax mirabilis</i>	Sistan & Baluchestan	Hedwig (1957)
	<i>Megalommum pistacivora</i>	Kerman	van Achterberg and Mehrnejad (2011)
	<i>Bracon persiangulfensis</i>	Hormozgan	Ameri <i>et al.</i> (2014c)
	<i>Habrobracon iranicus</i>	No specific locality cited	Fischer (1972)
		Tehran	Shojai (1989)
	<i>Pseudovipio nigrirostris</i>	No specific locality cited	Kokujev (1907)
	<i>Pseudovipio schaeuffelei</i>	South Khorasan	Hedwig (1957)
	<i>Rhadinobracon nigrocephalus</i>	Sistan & Baluchestan	Hedwig (1957)
	<i>Rhadinobracon zarudnyi</i>	No specific locality cited	Telenga (1936), Shenefelt (1978)
	<i>Vipio terrefactor persica</i>	No specific locality cited	Szépligeti (1901), Telenga (1936), Tobias (1976, 1986).
	<i>Vipio xanthurus</i>	No specific locality cited	Fahringer (1926)
<b>Cardiochilinae</b>	<i>Cardiochiles tibialis</i>	Sistan & Baluchestan	Hedwig (1957)
	<i>Cardiochiles triplus</i>	Sistan & Baluchestan	Hedwig (1957)
	<i>Pseudocardiochilus abnormipes</i>	Sistan & Baluchestan	Hedwig (1957)
<b>Cheloninae</b>	<i>Chelonus iranicus</i>	East Azarbaijan	Tobias (1972)
	<i>Chelonus setaceus</i>	Tehran	Papp (1993), Farahani <i>et al.</i> (2013a)
	<i>Chelonus iranicus</i>	No specific locality cited	Tobias (2001)
		Alborz	Papp (2014)
	<i>Chelonus moczari</i>	Alborz	Papp (2014)
<b>Euphorinae</b>	<i>Meteorus breviterebratus</i>	Hormozgan	Ameri <i>et al.</i> (2014b)
<b>Helconinae</b>	<i>Helcon heinrichi</i>	No specific locality cited	Hedqvist (1967)
<b>Miracinae</b>	<i>Centistidea pistaciella</i>	Kerman	van Achterberg and Mehrnejad (2002)
	<i>Mirax caspiana</i>	Guilan, Mazandaran	Farahani <i>et al.</i> (2014f)

**Table 3.** Host associations of braconid wasps (Hymenoptera: Braconidae) in Iran.

Subfamily	Host association in Iran		Hosts
	Number	percentage	
Agathidinae	1	3.03	Lepidoptera
Alysiinae	3	3.57	Diptera
Aphidiinae	71	97.26	Hemiptera
Blacinae	0	0	-
Brachistinae	1	5.56	Coleoptera
Braconinae	16	13.91	Lepidoptera Coleoptera Diptera Hymenoptera
Cardiochilinae	2	28.57	Lepidoptera
Cheloninae	5	7.46	Lepidoptera
Doryctinae	5	16.13	Coleoptera
Euphorinae	10	18.87	Lepidoptera Coleoptera Neuroptera
Gnamptodontinae	0	0	-
Helconinae	0	0	-
Hormiinae	0	0	-
Ichneutinae	0	0	-
Macrocentrinae	1	14.29	-
Microgastrinae	26	25.49	Lepidoptera
Microtypinae	0	0	-
Miracinae	1	33.33	-
Opiinae	3	3.16	Diptera
Orgilinae	1	8.33	Lepidoptera
Pambolinae	0	0	-
Rhysipolinae	0	0	-
Rhyssalinae	0	0	-
Rogadinae	0	0	-
Sigalphinae	0	0	-

**Table 4.** Incorrect reports of the Iranian Braconidae.

Species	Reference
<i>Aphidius tanacetarius</i> Mackauer, 1962	Rajabi-Mazhar <i>et al.</i> (2008)
<i>Praon dorsale</i> (Haliday, 1833)	Starý <i>et al.</i> (2000)
<i>Bracon (Glabrobracon) dichromus</i> (Wesmael, 1838)	Yu <i>et al.</i> (2012)
<i>Ephedrus (Ephedrus) laevicollis</i> (Thomson, 1895)	Fallahzadeh and Saghaei (2010)
<i>Peristenus rubricollis</i> (Thomson, 1892)	Fallahzadeh and Saghaei (2010) Gadallah <i>et al.</i> (2006b)
<i>Orgilus jennieae</i> Marsh, 1979	Fallahzadeh and Saghaei (2010)
<i>Pholetesor exiguus</i> (Haliday, 1834)	Yu <i>et al.</i> (2012, online version) Gadallah <i>et al.</i> (2015b)
<i>Protapanteles thompsoni</i> (Lyle, 1927)	Fallahzadeh and Saghaei (2010) Gadallah <i>et al.</i> (2015b)

## References

- Abbasipour, H., 2001. Report of endoparasitoid wasp, *Meteorus gyrator* (Thunberg) (Hym.: Braconidae) on rice armyworm, *Mythimna unipuncta* (Howarth) from Iran. *Journal of Entomological Society of Iran*, 20 (2): 101-102.
- Abbasipour, H., Amini dehaghi, M. and Taghavi, A. 2004. Evaluation of parasitoids efficiency to control the cereal armyworm, *Mythimna unipuncta* (Howarth) (Lep.: Noctuidae) in the rice fields of Iran. *Proceedings of 16<sup>th</sup> Iranian Plant Protection Congress*, p. 86.
- Abbasipour, H., Mahmoudvand, M., Basij, M. and Lozan, A. 2012. First report of the parasitoid wasps, *Microchelonus subcontractus* and *Bracon intercessor* (Hym.: Braconidae), from Iran. *Journal of Entomological Society of Iran*, 32 (1): 89-92.
- Abdinbekova, A.A. 1965. New species and forms of insects (fam. Ichneumonidae and Braconidae) from Kuba-Khachmask zone in Azerbeidjan. *Doklady Akademii Nauk Azerbaidzhanskoi SSR*, 21 (4): 61-64.
- Adldoost, H. 1995. Study of population dynamics of rainfed chickpea leafminer in West Azarbaijan, *Proceedings of 12<sup>th</sup> Iranian Plant Protection Congress*, p. 140.
- Adldoost, H. 2010. Study on the larval parasitism of *Heliothis virescens* Huf. in the Western Azarbaijan province of Iran. *Proceedings of 19<sup>th</sup> Iranian Plant Protection Congress*, p. 127.
- Afiunizadeh Isfahani, M. and Karimzadeh Isfahani, J. 2010. Larval and pupal parasitoids of *Plutella xylostella* (Lep.: Plutellidae) in Isfahan province, Iran. *Plant Protection Journal*, 2 (2): 79-97.
- Aghajanzadeh, S., Rasulian, Gh., Rezwani, A. and Esmaili, M. 1995. Identification of the aphids attacking citrus trees in West-Mazandaran and their population dynamics. *Proceedings of the 12<sup>th</sup> Iranian Plant Protection Congress*, p. 208.
- Aguiar, A., Deans, A.R., Engel, M.S., Forshage, M., Huber, J.T., Jennings, J.T., Johnson, N., Lelej, A.S., Longino, J.T., Lohrmann, V., Miko, I., Ohl, M., Rasmussen, C., Taeger, A. and Yu, D.S.K. 2013. Order Hymenoptera. *Zootaxa*, 3703(1): 51-62. DOI: <http://dx.doi.org/10.11646/zootaxa.3703.1.12>
- Ahmadi, A.A. and Sarafrazi, A. M. 1993. Distribution and natural enemies of Russian wheat aphid, *Duraphis noxia*, in the Fars province. *Proceedings of the 11<sup>th</sup> Iranian Plant Protection Congress*, P. 1.
- Akbarzadeh Shoukat, G., Ebrahimi, E. and Masnadi Yazdinejad, A. 2008. Larval parasitoids of the *Lobesia botrana* (Denis and Schiff.) (Lepidoptera: Tortricidae) on grape in Orumieh, Iran. *Proceedings of 18<sup>th</sup> Iranian Plant Protection Congress*, p. 20.
- Akbarzadeh Shoukat, G., Safaralizadeh, M., Ranjbar Aghdam, H. and Aramideh, Sh. 2015. Study on the parasitoid wasps belonging to the superfamily, Ichneumonoidea on grape berry moth, *Lobesia botrana* (Lep.: Tortricidae), in Urmia vineyards. *Proceedings of 1<sup>st</sup> Iranian International Congress of Entomology*, p. 115.
- Al-e-Mansour, H. and Mostafavi, M.S. 1993. The first record of Braconidae bees on forest and range vegetations in Fars province. *Proceedings of 11<sup>th</sup> Iranian Plant Protection Congress*, p. 236.
- Alikhani, M., Rezwani, A., Starý, P., Kavallieratos, N.G. and Rakhshani, E. 2013. Aphid parasitoids (Hymenoptera: Braconidae: Aphidiinae) in cultivated and non-cultivated areas of Markazi Province, Iran. *Biologia*, 68: 966-973. DOI: <http://dx.doi.org/10.2478/s11756-013-0234-y>
- Alizadeh, S. and Javan Moghaddam, H. 2004. Introduction of the some natural enemies of common cutworm (*Agrotis segetum* Schiff) in Miyandoab. *Proceedings of the 16<sup>th</sup> Plant Protection Congress of Iran*, p. 45.
- Ameri, A. Talebi, A.A., Kamali, K. and Rakhshani, E. 2012. Study of the tribe Phanerotomini Baker (Hymenoptera: Braconidae) in Hormozgan province of Iran with two new records. *Biosystematica*, 6 (2): 31-38.
- Ameri, A., Talebi, A.A., Rakhshani, E., Beyarslan, A. and Kamali, K. 2014a. Taxonomic study of the subfamily Doryctinae (Hymenoptera: Braconidae) in

- Hormozgan province, southern Iran. *Zoology and Ecology*, 24 (1): 40–54. DOI: <http://dx.doi.org/10.1080/21658005.2014.896138>
- Ameri, A., Talebi, A.A., Rakhshani, E., Beyarslan, A. and Kamali, K. 2014b. A survey of Euphorinae (Hymenoptera: Braconidae) of southern Iran, with description of a new species. *Zootaxa*, 3900 (3): 415–428. DOI: <http://dx.doi.org/10.11646/zootaxa.3900.3.5>
- Ameri, A., Talebi, A.A., Beyarslan, A., Kamali, K. and Rakhshani, E. 2014c. Study of the genus *Bracon* Fabricius, 1804 (Hymenoptera: Braconidae) of Southern Iran with description of a new species. *Zootaxa*, 3754 (4): 353–380. DOI: <http://dx.doi.org/10.11646/zootaxa.3754.4.2>
- Ameri, A., Talebi, A.A., Rakhshani, E., Beyarslan, A. and Kamali, K. 2014d. Study of the genus *Opius* Wesmael (Hymenoptera: Braconidae: Opiinae) in Southern Iran, with eleven new records. *Zootaxa*, 3884 (1): 1–26. DOI: <http://dx.doi.org/10.11646/zootaxa.3884.1.1>
- Ameri, A., Talebi, A.A., Rakhshani, E., Beyarslan, A. and Kamali, K. 2015. Additional evidence and new records of the genus *Bracon* Fabricius, 1804 (Hymenoptera: Braconidae) in southern Iran. *Turkish Journal of Zoology*, 39: 1110–1120. DOI: <http://dx.doi.org/10.3906/zoo-1404-62>
- Ameri, A., Talebi, A.A., Rakhshani, E. and Beyarslan, A. 2016. A review of the Subfamily Hormiinae (Hymenoptera: Braconidae) from Iran. *Journal of Insect Biodiversity and Systematics*, 1 (2): 111–123.
- Amir-Maffi, M. and Chi, H. 2006. Demography of *Habrobracon hebetor* (Hymenoptera: Braconidae) on two pyralid hosts (Lepidoptera: Pyralidae). *Annales of the Entomological Society of America*, 99 (1): 84–90.
- Arbab, A. and McNeill, M. 2001. New report of *Microctonus aethiopoies* (Hym.: Braconidae) in Iran. *Journal of Entomological Society of Iran*, 21 (1): 111–112.
- Aubert, J.F. 1966. Liste d'identification No. 6, présentée par le service d'identification des Entomophages). *Entomophaga*, 11: 115–134.
- Babae, M.R., Sahragard, A. and Rezwani, A. 2000. Three species of parasitoids (Aphidiidae) on forest trees aphids in Mazandaran and a new method for determining percent parasitism. Proceedings of the 14<sup>th</sup> Iranian Plant Protection Congress, p. 128.
- Bagheri, M. R. 1998. The first report of *Perilitus coccinellae* (Hym., Braconidae) a parasitoid of *Coccinella septempunctata* in Isfahan. Proceedings of the 13<sup>th</sup> Plant Protection Congress of Iran, p. 200.
- Bagheri-Matin, S., Sahragard, A and Rasoolian, G. 2005. Some behavioural characters of *Lysiphlebus fabarum* (Hym: Aphidiidae) parasitizing *Aphis fabae* (Homo: Aphidiidae) under laboratory conditions. *Journal of Entomology*, 2(1): 64–68.
- Bagheri-Matin, S., Shahrokhi, S. and Rasoolian, G. 2009. Some biological parameters of *Lysiphlebus fabarum* (Hymenoptera: Aphidiidae), a parasitoid of *Aphis fabae* (Homoptera: Aphidiidae) under laboratory conditions. *Munnis Entomology & Zoology*, 4 (1): 193–200.
- Bagheri-Matin, S., Shahrokhi, S. and Starý, P. 2010. Report of *Praon gallicum* (Hymenoptera: Braconidae: Aphidiinae) from Iran. *Applied Entomology and Phytopathology*, 78: 33–34.
- Bandani, A.R. 1992. Investigation on the fauna of cereal aphids (wheat and barely) and their parasitoids in Sistan region. MSc. thesis, University of Tehran, Faculty of Agriculture, 129 pp.
- Barahoei, H., Madjdzadeh S.M., Mehrparvar, M. and Starý, P. 2010. A study of *Praon Haliday* (Hymenoptera: Braconidae: Aphidiinae) in south-east Iran with two new records. *Acta Entomologica Serbica*, 15: 107–120.
- Barahoei, H., Madjdzadeh, S.M. and Mehrparvar, M. 2011. Morphometric differentiation of five biotypes of *Lysiphlebus fabarum* (Marshall) (Hymenoptera: Braconidae: Aphidiinae) in Iran. *Zootaxa*, 2745: 43–52.
- Barahoei, H., Madjdzadeh S.M. and Mehrparvar, M. 2012. Aphid parasitoids (Hymenoptera: Braconidae: Aphidiinae) and their tritrophic relationships in Kerman province, Southeastern Iran. *Iranian Journal of Animal Biosystematics*, 8 (1): 1–14.
- Barahoei, H., Rakhshani, E., Madjdzadeh, S. M., Alipour, A., Taheri, S., Nader, E., Mitrovski

- Bogdanović, A. Petrović-Obradović, O., Starý, P., Kavallieratos, N.G. and Tomanović, Ž. 2013. Aphid parasitoid species (Hymenoptera: Braconidae: Aphidiinae) of central submountains of Iran. *North-Western Journal of Zoology*, 9: 70–93.
- Barahoei, H., Rakhshani, E., Nader, E., Starý, P., Kavallieratos, N.G., Tomanović, Z. and Mehrparvar, M. 2014. Checklist of Aphidiinae parasitoids (Hymenoptera: Braconidae) and their host aphid associations in Iran. *Journal of Crop Protection*, 3 (2): 199–232.
- Bartlett, B.R., Clausen, C.P., DeBach, P., Goeden, R.D., Legner, E.F., McMurtry, J.A. and Oatman, E.R. 1978. *Introduced parasites and predators of arthropod pests and weeds: A world review*. Agricultural Research Service. United States Department of Agriculture, Agriculture Handbook No.480. 545 pp.
- Basiri, N., Lotfalizadeh, H. and Kazemi, M.H. 2013. *Dendrosoter middendorffii* (Ratzeburg, 1848) (Hymenoptera: Braconidae) a parasitoid of the fruit bark beetles in Iran. *Biharean Biologist*, 7(4): 104–105.
- Belokoblyskij, S.A. 1990. Review of Braconid wasps of the genus *Rhaconotus* Ruthe (Hymenoptera, Braconidae) of the Palearctic region. *Entomological Review*, 70: 47–67.
- Belokoblyskij, S.A. 1992. *Wesmaelia* and *Syrphizus* species (Hymenoptera, Braconidae, Euphorinae) in the Far East. *Vestnik Zoologii*, 3: 8–16.
- Belokoblyskij, S.A. 1998. 1. Rhyssalinae, 2. Doryctinae, 3. Histeromerinae, 4. Exothecinae, 7. Gnampodontinae, 9. Alysiinae (Alysiini), 10. Helconinae, 11. Cenocoeliinae, 12. Brachistinae, 14. Meteorideinae, 16. Xiphozelinae, 17. Homolobinae, 18. Charmontinae, 19. Orgilinae, 20. Ecnomiinae, 21. Sigalphinae, 23. Ichneutinae, 25. Cardiochilinae, 27. Dirrhopinae, 28. Miracinae, 29. Adeliinae. In: Ler, P.A. (Ed.), *Key to the insects of Russian Far East*. Vol. 4. Neuropteroidea, Mecoptera, Hymenoptera. Pt 3. Dal'nauka, Vladivostok. 706 pp.
- Belokoblyskij, S.A. and Tobias, V.I. 1986. Subfamily Doryctinae. pp. 28–117. In: Medvedev, G.S. (Ed.), *Keys to the Insects of the European Part of the USSR*. Volume III, Hymenoptera Part IV. Academy of Sciences of the USSR, New Delhi: Amerind Publishing, 908 pp.
- Beyarslan, A., Cetin Erdogan, Ö. and Aydogdu, M. 2005. A survey of Braconinae (Hymenoptera, Braconidae) of Turkish western Black Sea region. *Linzer Biologische Beiträge*, 37 (1): 195–213.
- Borzoui, E., Naseri, B. and Mohammadzadeh-Bidarani, M. 2016. Adaptation of *Habrobracon hebetor* (Hymenoptera: Braconidae) to rearing on *Ephestia kuehniella* (Lepidoptera: Pyralidae) and *Helicoverpa armigera* (Lepidoptera: Noctuidae). *Journal of Insect Science*, 16 (1): 1–7.
- Capek, M. and Hofmann, C. 1997. The Braconidae (Hymenoptera) in the collections of the Musée cantonal de Zoologie, Lausanne. *Litterae Zoologicae (Lausanne)*, 2: 25–162.
- Darsoui, R. and Karimi, J. 2015. Natural enemies of sugar beet armyworm, *Spodoptera exigua* (Lep.: Noctuidae). Proceedings of 1<sup>st</sup> Iranian International Congress of Entomology, p. 98.
- Davatchi, A. and Shojai, M. 1969. Les hymenopteres entomophages de l'Iran (études faunistiques). Tehran University, Faculty of Agriculture, 88 pp.
- Darvish-Mojeni, T. and Bayat-Asadi, H. 1995. Identification of natural enemies of wheat green aphid, *Sitobion avenae*, in Gorgan and Dasht. Proceedings of the 12<sup>th</sup> Iranian Plant Protection Congress, p. 21.
- Davidian, E.M. 2005. A review of species of the subgenus *Trioxys* s. str., genus *Trioxys* Haliday (Hymenoptera: Aphidiidae) of Russia and adjacent countries. *Entomological Review*, 84 (3): 579–609.
- Dezianian, A. and Quicke, D. 2006. Introduction of potato tuber moth parasite wasp *Bracon (Habrobracon)* aff. *radialis* Telenga from Iran. Proceedings of 17<sup>th</sup> Iranian Plant Protection Congress, p. 65.
- Esmaili, M. 1983. *The important pests of fruit trees*. Sepehr publication, Tehran, 578 pp.
- Faal-Mohammad-Ali, H. and Shishehbor, P. 2013. Biological parameters of *Bracon hebetor* (Hym.: Braconidae) parasitizing *Ephestia kuehniella* (Lep.: Pyralidae): effect of host diet. *Journal of Crop Protection*, 2 (4): 411–419.

- Fallahzadeh, M. and Saghaei, N. 2010. Checklist of Braconidae (Insecta: Hymenoptera) from Iran. *Munis Entomology & Zoology*, 5 (1): 170-186.
- Farahani, S. and Talebi A.A. 2012. A review of the tribe Meteorini (Cresson, 1887) (Hymenoptera: Braconidae, Euphorinae) in northern Iran, with eight new records. *Iranian Journal of Animal Biosystematics*, 8 (2): 135-157.
- Farahani, S., Talebi, A.A. and Rakhshani, E. 2012a. First records of *Macrocentrus* Curtis, 1833 (Hymenoptera: Braconidae: Macrocentrinae) from northern Iran. *Zoology and Ecology*, 22 (1): 41-50 .
- Farahani, S., Talebi, A.A. and Rakhshani, E. 2012b. New records of *Phanerotomella rufa* (Marshall, 1898) and *Phanerotoma (Phanerotoma) acuminata* Szépligeti, 1908 (Hymenoptera: Braconidae) from northern Iran. *Biharean Biologist*, 6 (1): 61-64.
- Farahani, S., Talebi, A.A., van Achterberg, C. and Rakhshani, E. 2012c. *Syntretus*, a genus of Euphorinae (Hymenoptera: Braconidae) new for Iran, with first record of two species. *Journal of Crop Protection*, 1 (3): 173-179.
- Farahani, S., Talebi, A.A., Rakhshani, E. and van Achterberg, C. 2012d. First record of *Homolobus infumator* (Lyle, 1914) (Insecta: Hymenoptera: Braconidae: Homolobinae) from Iran. *Check List*, 8(6): 1350-1352.
- Farahani, S., Talebi, A.A., Rakhshani, E., Hajiqanbar, H. and van Achterberg, C. 2012e. First report of the parasitoid wasp, *Phanerotoma minuta* Kokujev (Hym., Braconidae, Cheloninae) from Iran. Proceedings of the 20<sup>th</sup> Plant Protection Congress of Iran, p. 117.
- Farahani, S., Talebi, A.A., Rakhshani, E. and van Achterberg, C. 2012f. New record of *Pseudichneutes atanassovae* (Hymenoptera: Braconidae, Ichneutinae) from Iran. Proceedings of the 20<sup>th</sup> Plant Protection Congress of Iran, p. 118.
- Farahani, S., Talebi, A.A. and Rakhshani, E. 2013a. A contribution to the tribe Chelonini Foerster (Hymenoptera: Braconidae: Cheloninae) of northern Iran, with first records for eight species and an updated check list of Iranian species. *Zoosystematics and Evolution*, 89 (2): 227-238. DOI: <http://dx.doi.org/10.1002/zoos.201300009>
- Farahani, S., Talebi, A.A. and Rakhshani, E. 2013b. A contribution to the knowledge of Euphorinae (Hymenoptera: Braconidae), with six new records from Iran. *Journal of Entomological and Acarological Research*, 45: 43-51. DOI: <http://dx.doi.org/10.4081/jear.2013.e9>
- Farahani, S., Talebi, A.A., van Achterberg, C. and Rakhshani, E. 2013c. Three new records of the genera *Leiophron* and *Euphorus* (Hymenoptera: Braconidae: Euphorinae) from Iran. *Journal of Entomological Society of Iran*, 33 (2): 73-79.
- Farahani, S., Talebi, A.A., Rakhshani, E. and van Achterberg, C. 2013d. A study of the genus *Blacus* Nees, 1819 (Hymenoptera: Braconidae: Blasiinae) in Iran, with three new records. *Ukrainska Entomofaunistyka*, 4(2): 3-11.
- Farahani, S., Talebi, A.A. and Rakhshani, E., van Achterberg, C. and Sharkey, M. 2014a. A contribution to the knowledge of Agathidinae (Hymenoptera: Braconidae) from Iran with description of a new species. *Biologia*, 69 (2): 228-235. DOI: <http://dx.doi.org/10.2478/s11756-013-0295-y>
- Farahani, S., Talebi, A.A., van Achterberg, C. and Rakhshani, E. 2014b. A Review of the species of the genus *Ascogaster* Wesmael (Hymenoptera: Braconidae: Cheloninae) from Iran. *Far Eastern Entomologist*, 275: 1-12.
- Farahani, S., Talebi, A.A., Rakhshani, E. and van Achterberg, C. 2014c. Wasps of the subfamily Doryctinae (Hymenoptera: Braconidae) in Iran. *Zoology in the Middle East*, 60 (1): 65-81. DOI: <http://dx.doi.org/10.1080/09397140.2014.892341>
- Farahani, S., Talebi, A.A. and Rakhshani, E. 2014d. A study of the genus *Gnamptodon* Haliday (Hymenoptera: Braconidae: Gnamptodontinae) from northern Iran. *Journal of Entomological Research Society*, 16 (3): 87-93.
- Farahani, S., Talebi, A.A., van Achterberg, C. and Rakhshani, E. 2014e. A taxonomic study

- of Orgilinae and Microtypinae (Hymenoptera: Braconidae) from Iran. *Spixiana*, 37 (1): 93-102.
- Farahani, S., Talebi, A.A., van Achterberg, C. and Rakhshani, E. 2014f. A new species of the genus *Mirax* Haliday, 1833 (Hymenoptera: Braconidae: Miracinae) from Iran. *Annales Zoologici*, 64(4): 677-682. DOI: <http://dx.doi.org/10.3161/000345414X685956>
- Farahani, S., Talebi, A.A., van Achterberg, C. and Rakhshani, E. 2014g. First record of *Microplitis rufiventris* Kokujev, 1914 (Braconidae: Microgastrinae) from Iran. *Check List*, 10(2): 441-444.
- Farahani, S., Talebi, A.A. and Rakhshani, E. 2014h. First report of *Elasmosoma luxemburgense* Wasmann, 1909 (Hymenoptera: Braconidae: Euphorinae) from Iran. Proceedings of the 21<sup>th</sup> Plant Protection Congress of Iran, p. 496.
- Farahani, S., Talebi, A.A., van Achterberg, C. and Rakhshani, E. 2015a. A review of the subfamily Rogadinae (Hymenoptera: Braconidae) from Iran. *Zootaxa*, 3973 (2): 227-250. DOI:<http://dx.doi.org/10.11646/zootaxa.3973.2.2>.
- Farahani, S., Talebi, A.A. and Barahoei, H. 2015b. Occurrence of the rare aphid parasitoid *Praon bicolor* Mackauer, 1959 (Hymenoptera, Braconidae, Aphidiinae) in central Asia. *Journal of Insect Biodiversity and Systematics*, 1 (1): 11-15.
- Farahani, S. Talebi, A.A. and Rakhshani, E. 2015c. Study of the genus *Cardiochiles* (Hymenoptera: Braconidae: Cardiochilinae) in Tehran and Alborz provinces, with one new record from Iran. Proceedings of 1<sup>st</sup> Iranian International Congress of Entomology, 19-25 pp.
- Farahani, S. Talebi, A.A. and Rakhshani, E. 2015d. First record of *Acrisis suomii* Tobias, 1983 (Hymenoptera: Braconidae: Rhyssalinae) from Iran. Proceedings of 1<sup>st</sup> Iranian International Congress of Entomology, p. 72.
- Farahbakhsh, Gh. 1961. Checklist of important insects and other enemies of plants and agricultural products in Iran. The Ministry of Agriculture, Department Plant Protection, 1: 1-153.
- Farhad, A., Talebi, A.A. and Fathipour, Y. 2011. Foraging behavior of *Praon volucre* (Hymenoptera: Braconidae) a parasitoid of *Sitobion avenae* (Homoptera: Aphididae) on wheat. *Psyche*, vol. 2011, Article ID 68546, 1-7. DOI:<http://dx.doi.org/10.1155/2011/868546>
- Farhad, A., Talebi, A.A. and Fathipour, Y. 2012. Thermal requirements of *Sitobion avenae* (Hom.: Aphididae) and its parasitoid, *Proan volucre* (Hym.: Braconidae). *Iranian Journal of Plant Protection Science*, 43 (1): 143-154.
- Farrar, N. and Chou, L.Y. 2000. Introduction of *Fopius carpomyiae* (Silvestri, 1916) (Braconidae: Opiinae), as a parasitoid of Ber fruitfly larvae *Carpomya vesuviana* Costa (Tephritidae), in Iran. *Applied Entomology and Phytopathology*, 67 (1-2): 100-101.
- Farrar, N., Golestaneh, S.R. and Sadeghi, S.E. 2004. Relation between diapause of *Carpomya vesuviana* Costa (Diptera: Tephritidae) and *Thiacidas postica* Walker (Lepidoptera: Noctuidae) and their survival and evolution. Proceedings of 16<sup>th</sup> Iranian Plant Protection Congress, p. 457.
- Farrar, N., Golestaneh, R., Askari, H. and Assareh, M.H. 2009. Studies on parasitism of *Fopius carpomyie* (Silvestri) (Hymenoptera: Braconidae), an egg-pupal parasitoid of ber (Konar) fruit fly, *Carpomyia vesuviana* Costa (Diptera: Tephritidae), in Bushehr-Iran. *Acta Horticulturae*, 84: 431-438. DOI: <http://dx.doi.org/10.17660/ActaHortic.2009.840.61>
- Farrar, N., Askari, H., Golestaneh, R., Karampour, F. and Haghani, M. 2012. Study on parasitism of *Carpomyia vesuviana* Costa (Diptera: Tephritidae) by *Fopius carpomyie* (Silvestri) (Hymenoptera: Braconidae) in Bushehr province. *Journal of Iranian Plant Pests Research*, 1 (1): 1-9.
- Fathi, S. A. A. 2011. Tritrophic interactions of nineteen canola cultivars *Chromatomya horticola* -parasitoids in Ardabil region. *Munis Entomology & Zoology*, 6: 449-454.
- Fathipour, Y., Hosseini, A., Talebi, A.A. and Moharramipour, S. 2006. Functional response and mutual interference of *Diaeretiella rapae* (Hymenoptera: Aphidiidae) on *Brevicoryne brassicae* (Homoptera: Aphididae). *Entomologica Fennica*, 17: 90-97.

- Fischer, M. 1963. Eine neue *Pectenopius*-Art aus dem Iran (Hymenoptera, Braconidae, Opiinae). *Stuttgarter Beiträge zur Naturkunde*, 98: 1-3.
- Fischer, M. 1970. Eine neue *Spathius*-Art aus dem Iran (Hym. Braconidae). *Annales de la Société Entomologique de France*, 6: 705-708.
- Fischer, M. 1990. Paläarktische Opiinae (Hymenoptera, Braconidae): Neue Arten und neue Funde aus dem Ungarischen Naturwissenschaftlichen Museum in Budapest. *Annales Historico-Naturales Musei Nationalis Hungarici*, 8: 205-238.
- Fischer, M. 2001. Mitteilungen über neue und schon bekannte *Opius* Wesmael-Arten der Alten Welt (Hymenoptera, Braconidae, Opiinae). *Linzer Biologische Beiträge*, 33(1): 5-33.
- Fischer, M., Lashkari Bod, A., Rakhshani, E. and Talebi, A.A. 2011. Alysiniinae from Iran (Insecta: Hymenoptera: Braconidae: Alysiniinae). *Annalen des Naturhistorischen Museums in Wien, Serie B*, 112: 115-132.
- Forouzan, M., Amirraafi, M. and Sahragard, A. 2008. Temperature-dependent development of *Habrobracon hebetor* (Hym.: Braconidae) reared on larvae of *Galleria mellonella* (Lep.: Pyralidae). *Journal of Entomological Society of Iran*, 28 (1): 67-78.
- Gadallah, N.S. and Ghahari, H. 2013a. An annotated catalogue of the Iranian Agathidinae and Brachistinae (Hymenoptera: Braconidae). *Linzer Biologische Beiträge*, 45 (2): 1873-1901.
- Gadallah, N.S. and Ghahari, H. 2013b. An annotated catalogue of the Iranian Cheloninae (Hymenoptera: Braconidae). *Linzer Biologische Beiträge*, 45 (2): 1921-1943.
- Gadallah, N.S. and Ghahari, H. 2015. An annotated catalogue of the Iranian Braconinae (Hymenoptera: Braconidae). *Entomofauna*, 36 (10): 121-176.
- Gadallah, N.S., Ghahari, H., Peris-Felipo, F. J. and Fischer, M. 2015a. An annotated catalogue of the Iranian Alysiniinae (Hymenoptera: Braconidae). *Zootaxa*, 3974 (1): 1-28. DOI: <http://dx.doi.org/10.11646/zootaxa.3974.1.1>
- Gadallah, N.S., Ghahari, H. and Peris-Felipo, F.J. 2015b. Catalogue of the Iranian Microgastrinae (Hymenoptera: Braconidae). *Zootaxa*, 4043 (1): 1-69. DOI: <http://dx.doi.org/10.11646/zootaxa.4043.1.1>
- Gadallah, N.S., Ghahari, H. and Peris-Felipo, F.J. 2016a. Updated checklist of Iranian Opiinae (Hymenoptera: Braconidae). *Zootaxa*, 4066 (1): 1-40. DOI: <http://doi.org/10.11646/zootaxa.4066.1.1>
- Gadallah, N.S., Ghahari, H. and van Achterberg, K. 2016b. An annotated catalogue of the Iranian Euphorinae, Gnamptodontinae, Helconinae, Hormiinae and Rhysipolinae (Hymenoptera: Braconidae). *Zootaxa*, 4072 (1): 1-38. DOI: <http://doi.org/10.11646/zootaxa.4072.1.1>
- Ghadiri Rad, S. and Ebrahimi, E. 2010. Analysis regression of the effects of *Cotesia kazak* Telenga (Hym.: Braconidae) on population densities of *Helicoverpa armigera* Hubner (Lep.: Noctuidae) and crop injury indices. Proceedings of the 19<sup>th</sup> Plant Protection Congress of Iran, p. 67.
- Ghafouri Moghaddam, M., Rakhshani, E., Starý, P., Tomanović, Ž. and Kavallieratos, N.G. 2012. Occurrence of *Monoctonia vesicarii* Tremblay (Hym., Braconidae, Aphidiinae), a very rare parasitoid of the gall forming aphids, *Pemphigus* spp. (Hemi., Eriosomatidae) in Iran. Proceedings of the 20<sup>th</sup> Iranian Plant Protection Congress, p. 212.
- Ghahari, H. and Fischer, M. 2011a. A contribution to the Braconidae (Hymenoptera: Ichneumonoidea) from north-western Iran. *Calodema*, 134: 1-6.
- Ghahari, H. and Fischer, M. 2011b. A study on the Braconidae (Hymenoptera: Ichneumonoidea) from some regions of northern Iran. *Entomofauna*, 32 (8): 181-196.
- Ghahari, H. and Fischer, M. 2012. A faunistic survey on the braconid wasps (Hymenoptera: Braconidae) from Kermanshah province, Iran. *Entomofauna*, 33 (20): 305-312.
- Ghahari, H. and Gadallah, N.S. 2015. A faunistic study on the Braconidae (Hymenoptera) from some regions of Semnan, Iran. *Entomofauna*, 36 (11): 177-184.
- Ghahari, H., Fischer, M., Erdogan, O., Tabari, M., Ostovan, H. and Beyarslan, A. 2009a. A contribution to Braconidae (Hymenoptera)



- from rice fields and surrounding grasslands of Northern Iran. *Munis Entomology & Zoology*, 4 (2): 432-435.
- Ghahari, H., Gadallah, N.S., Erdogan, O., Hedqvist, K.J., Fischer, M., Beyarslan, A. and Ostovan, H. 2009b. Faunistic note on the Braconidae (Hymenoptera: Ichneumonoidea) in Iranian cotton fields and surrounding grasslands. *Egyptian Journal of Biological Pest Control*, 19 (2): 115-118.
- Ghahari, H., Fischer, M., Erdogan, O., Beyarslan, A. and Havaskary, M. 2009c. A contribution to the knowledge of the braconid-fauna (Hymenoptera, Ichneumonoidea, Braconidae) of Arasbaran, northwestern Iran. *Entomofauna*, 30 (20): 329-333.
- Ghahari, H., Fischer, M., Erdogan, O., Beyarslan, A., Hedqvist, K.J. and Ostovan, H. 2009d. Faunistic note on the Braconidae (Hymenoptera: Ichneumonoidea) in Iranian alfalfa fields and surrounding grasslands. *Entomofauna*, 30 (24): 437-443.
- Ghahari, H., Tabari, M., Haji-Amiri, M., Sakenin, H. and Ostovan, H. 2009e. Population fluctuation of rice stem borer, *Chilo suppressalis* Walker (Lepidoptera: Pyralidae) in paddy fields of northern Amol in Mazandaran Province. *Journal of Plant Protection*, 23 (1): 41-49.
- Ghahari, H., Fischer, M., Erdogan, O., Beyarslan, A. and Ostovan, H. 2010a. A contribution to the braconid wasps (Hymenoptera: Braconidae) from the forests of northern Iran. *Linzer Biologische Beiträge*, 42 (1): 621-634.
- Ghahari, H., Fischer, M., Hedqvist, K.J., Erdogan, O., van Achterberg, K. and Beyarslan, A. 2010b. Some new records of Braconidae (Hymenoptera) for Iran. *Linzer Biologische Beiträge*, 42 (2): 1395-1404.
- Ghahari, H., Erdogan, O.C., Sedivy, J. and Ostovan, H. 2010. Survey of the Ichneumonoidea and Chalcidoidea (Hymenoptera) parasitoids of Saturniidae (Lepidoptera) in Iran. *Efflatounia*, 10: 1-6.
- Ghahari, H., Fischer, M. and Papp, J. 2011a. A study on the Braconidae (Hymenoptera: Ichneumonoidea) from Ilam province, Iran. *Calodema*, 160: 1-5.
- Ghahari, H., Fischer, M. and Papp, J. 2011b. A study on the Braconidae (Hymenoptera: Ichneumonoidea) from Qazvin province, Iran. *Entomofauna*, 32 (9): 197-204.
- Ghahari, H., Fischer, M. and Papp, J. 2011c. A study on the braconid wasps (Hymenoptera: Braconidae) from Isfahan province, Iran. *Entomofauna*, 32 (16): 261-270.
- Ghahari, H., Fischer, M., Sakenin, H. and Imani, S. 2011d. A contribution to the Agathidinae, Alysinae, Aphidiinae, Braconinae, Microgastrinae and Opiinae (Hymenoptera: Braconidae) from cotton fields and surrounding grasslands of Iran. *Linzer Biologische Beiträge*, 43 (2): 1269-1276.
- Ghahari, H., Fischer, M., Papp, J. and Tobias, V. 2012a. A contribution to the knowledge of braconids (Hymenoptera: Braconidae) from Lorestan province, Iran. *Entomofauna*, 33 (7): 65-72.
- Ghahari, H., Fischer, M. and Jussila, R. 2012b. Braconid and ichneumonid wasps (Hymenoptera, Ichneumonoidea) as the parasitoids of *Plutella xylostella* (L.) (Lepidoptera: Plutellidae) in Iran. *Entomofauna*, 33 (18): 281-288.
- Ghahari, H., Fischer, M. and Tobias, V. I. 2012c. A study on the Braconidae (Hymenoptera: Ichneumonoidea) from Guilan province, Iran. *Entomofauna*, 33 (22): 317-324.
- Gharali, B. 2004. Study of natural enemies of safflower shoot flies in Ilam province. Proceeding of 16<sup>th</sup> Iranian Plant Protection Congress, p. 54.
- Gharib, A. 1968. *Batrachedra amydraula* Meyr (Superfamily: Gelechoidea)-(Mompidae (Cosmopterygidae)). *Entomologie et Phytopatologie Appliquees*, 27: 63-67.
- Ghotbi Ravandi, S., Madjdzadeh, S.M., Peris-Felipo, F.J., Askari Hesni, M. and Rakhshani, E. 2015. A contribution to the Alysinae of southeastern Iran, with description of the male of *Chorebus longiarticulis*. *Turkish Journal of Zoology*, 39: inpress. DOI: <http://dx.doi.org/10.3906/zoo-1408-9>
- Goldansaz, S.H., Esmaili, M. and Ebadi, R. 1996. Lesser wax moth, *Achroia grisella* F., and its parasitic wasps. Proceedings XX

- International Congress of Entomology, Firenze, Italy, p. 663
- Golizadeh, A., Kamali, K., Fathipour, Y., Abbasipour, H., Lozan, A. 2008. Report of the parasitoid wasp, *Cotesia plutellae* (Hym.: Braconidae), from Iran. *Journal of Entomological Society of Iran*, 27 (2): 19-20.
- Gonzalez, D., White, W., Hall, J. and Dickson, R.C. 1978. Geographical distribution of Aphidiidae (Hym.) imported to California for biological control of *Acyrtosiphon kondoi* and *Acyrtosiphon pisum* (Hom.: Aphididae). *Entomophaga*, 23: 239-248.
- Gonzalez, D., Gilstrap, F., McKinnon, L., Zhang, J., Zareh, N., Zhang, G., Starý, P., Woolley, J.B. and Wang, P. 1992. Foreign exploration for natural enemies of Russian wheat aphid in Iran and in the Kunlun, Tian Shan, and Altai mountain valleys of the Peoples Republic of China. Proceedings 5<sup>th</sup> Russian Wheat Aphid Conference, 197-209 pp.
- Habibpour, B., Kamali, K. and Meidani, J. 2002. Insects and mites associated with stored products and their arthropod parasites and predators in Khuzestan province (Iran). *Bulletin OILB SROP*, 25 (3): 89-91.
- Haeselbarth, E. 1983. Determination list of entomophagous insects. 9. WPRS Bulletin.
- Haeselbarth, E. 2008. Zur Braconiden-Gattung *Perilitus* Nees 1818 3. Beitrag: die Arten ohne ausgebildetem ersten Cubitus-Abschnitt (Hymenoptera, Braconidae). *Linzer Biologische Beiträge*, 40 (2): 1013-1152.
- Hasanshahi, G., Abbasipour, H., Jussila, R., Jahan, F. and Dosti, Z. 2014. Host report of *Hyposoter clausus* (Brischke, 1880) (Ichneumonidae: Campopleginae), a larval parasitoid of the cabbage white butterfly, *Pieris rapae* from cauliflower fields in Tehran. *Biocontrol in Plant Protection*, 1 (2): 95-97.
- Hasanshahi, G., Abbasipour, H., Moghbeli Gharaei, A., Jussila, R. and Mohammadi-Khoramabadi, A. 2015. First report of *Hyposoter ebeninus* a larval parasitoid of small cabbage butterfly, *Pieris rapae* from Tehran province. *Applied Entomology and Phytopathology*, 82 (2): 185-186.
- Hazini, F., Peris-Felipo, F.J., Yari, Z. and Rakhshani, E. 2015. Alysiniinae (Hymenoptera: Braconidae) parasitoids of the pea leaf miner, *Chromatomyia horticola* (Goureaux, 1851) (Diptera: Agromyzidae) in Kermanshah, Iran. *Journal of Crop Protection*, 4 (1): 97-108.
- Hedqvist, K. J. 1967. Notes on Helconini (Ichneumonoidea, Braconidae, Helconinae). Part I. *Entomologisk Tidskrift*, 88: 133-143.
- Hedwig, K. 1957. Ichneumoniden und Braconiden aus den Iran 1954 (Hymenoptera). *Jahresheft des Vereins für Vaterlaendische Naturkunde*, 112 (1): 103-117.
- Hellén, W. 1956. Zur Kenntniss der Agathidinen Finnlands (Hym., Brac.). *Notulae Entomologicae*, 36: 116-125.
- Herard, F., Mercadier, G. and Abai, M. 1979. Situation de *Lymantria dispar* (Lep.: Lymantriidae) et son complexe parasitaire en Iran, en 1976. *Entomophaga*, 24 (4): 371-384.
- Hodgson, T.V. 1917. Parasitic Hymenoptera: Ichneumonidae and Braconidae. Type species in the Bignell collection. *Report and Transactions of the Devonshire Association for the Advancement of Science*, 49: 397-415.
- Hodjat, S.H. and Moradeshaghi, M.J. 1988. Citrus aphids of Iran. *Journal of Plant Protection*, 31: 1-40.
- Hossain, M. A., Askari, A. and Asadi, Gh. 1977. A study of *Bracon lefroyi* (Hym.: Braconidae) from Iran. Proceeding of 6<sup>th</sup> Iranian Plant Protection Congress, p. 5.
- Huddleston, T. 1984. The Palaearctic species of *Ascogaster* (Hymenoptera: Braconidae). *Bulletin of the British Museum (Natural History)*, Entomology series, 49(5): 341-392.
- Jafari-Ahmadabadi, N. and Modarres, A.M. 2012. Aphid parasitoids associations on stone fruit trees in Khorasan-e-Razavi province (Iran) (Hymenoptera: Braconidae: Aphidiinae). *Munis Entomology & Zoology*, 7 (1): 418-423.
- Jafari-Ahmadabadi, N., Karimi, J., Modarres, M. and Rakhshani, E. 2011. Morphological and molecular methods in identification of *Aphidius transcaspicus* Telenga (Hym: Braconidae: Aphidiinae) parasitoid of

- Hyalopterus* spp. (Hom: Aphididae) with additional data on Aphidiinae phylogeny. *Journal of Entomological Research Society*, 13 (2): 91-103.
- Karampour, F. and Fasihi, M. 2004. Collection, identification and study of the natural enemies of *Batrachedra amydraula* Meyr. Proceeding of 16<sup>th</sup> Iranian Plant Protection Congress, p. 49.
- Karimi-Malati, A., Fathipour, Y., Talebi, A.A. and Lozan, A. I. 2014. The first report of *Microplitis fulvicornis* (Hym.: Braconidae: Microgastrinae) as a parasitoid of *Spodoptera exigua* (Lep.: Noctuidae) from Iran. *Journal of Entomological Society of Iran*, 33 (4): 71-72.
- Karimpour, Y., Fathipour, Y., Talebi, A.A. and Moharrampour, S. 2001. Report of two endoparasitoid wasps, *Cotesia ofella* (Nixon) & *C. vanessae* (Reinhard) (Hym.: Braconidae) on larvae of *Simyra dentinosa* Freyer (Lep.: Noctuidae) from Iran. *Journal of Entomological Society of Iran*, 21 (2): 105-106.
- Karimpour, Y., Fathipour, Y., Talebi, A.A., Moharrampour, S., Horstman, K. and Papp, J. 2005. New records of two parasitoid wasps of *Simyra dentinosa* Freyer (Lep., Noctuidae) larvae from Iran. *Applied Entomology and Phytopathology*, 73 (1): 133.
- Kavallieratos, N.G., Tomanović, Z., Petrović, A., Janković, M., Starý, P., Yovkova, M. and Athanassiou, C.G. 2013. Review and key for the identification of parasitoids (Hymenoptera: Braconidae: Aphidiinae) of aphids infesting herbaceous and shrubby ornamental plants in southeastern Europe. *Annals of the Entomological Society of America*, 106 (3): 294-309. DOI: <http://dx.doi.org/10.1603/AN12090>
- Kazemzadeh, S., Rakhshani, E., Tomanović, Ž., Starý, P. and Petrović, A. 2009. *Areopraon lepelleyi* (Waterston) (Hymenoptera: Braconidae: Aphidiinae), a parasitoid of Eriosomatinae (Hemiptera: Aphidoidea: Pemphigidae) new to Iran. *Acta Entomologica Serbica*, 14: 55-63.
- Kazemzadeh, Z., Shaw, M. R. and Karimzadeh, J. 2014. A new record for Iran of *Dolichogenidea appellator* (Hym.: Braconidae: Microgastrinae), a larval endoparasitoid of diamondback moth, *Plutella xylostella* (Lep.: Plutellidae). *Journal of Entomological Society of Iran*, 33 (4): 81-82.
- Kishani Farahani, H., Goldansaz, S.H. and Sabahi, G. 2008. Study on larval parasitoids of carob moth *Ectomyelois ceratoniae* Zeller (Lep.: Pyralidae) in Saveh, Qom and Varamin. Proceeding of 18<sup>th</sup> Iranian Plant Protection Congress, p. 72.
- Kishani Farahani, H., Bell, H. and Goldansaz, S.H. 2012. Biology of *Apanteles myeloenta* (Hymenoptera: Braconidae), a larval parasitoid of carob moth *Ectomyelais ceratoniae* (Lepidoptera: Pyralidae). *Journal of Asia-Pacific Entomology*, 15: 607-610. DOI: <http://dx.doi.org/10.1016/j.aspen.2012.07.003>
- Kishani Farahani, H. and Goldansaz, S.H. 2013. Is host age an important factor in the bionomics of *Apanteles myeloenta* (Hymenoptera: Braconidae)? *European Journal of Entomology*, 110 (2): 277-283. DOI: <http://dx.doi.org/10.14411/eje.2013.041>
- Khajeh, N., Yari, Z., Rakhshani, E. and Peris-Felipo, F.J. 2014a. A regional checklist of Alysiniinae (Hymenoptera: Braconidae) from Iran. *Journal of Crop Protection*, 3 (3): 413-423.
- Khajeh, N., Rakhshani, E., Peris-Felipo, F.J. and Žikic, V. 2014b. Contributions to the Opiinae (Hymenoptera: Braconidae) of Eastern Iran with updated checklist of Iranian species. *Zootaxa*, 3784 (2): 131-147. DOI: <http://dx.doi.org/10.11646/zootaxa.3784.2.3>
- Khajeh, N., Rakhshani, E., Arjmandi, A.A. and Barahoei, H. 2014c. A faunistic study on Microgastrinae in Sistan region. Proceedings of 21<sup>st</sup> Iranian Plant Protection Congress, p. 575.
- Khajeh, N., Rakhshani, E., Barahoei, H. and Arjmandi, A.A. 2014d. Taxonomic study of the genus *Chelonus* Panzer (Hym., Braconidae, Cheloninae) in Sistan region. Proceedings of 21<sup>st</sup> Iranian Plant Protection Congress, p. 739.
- Kheyri, M. 1977. The necessary of integrated control application against beet armyworm. *Entomologie and Phytopathologie Applique*, 45: 5-28.
- Lashkari Bod, A., Rakhshani, E., Talebi, A.A. and Fischer, M. 2010. Identification and

- introduction of ten new records of Alysiinae (Hym.: Braconidae) from Iran. Proceedings of the 19<sup>th</sup> Plant Protection Congress of Iran, p. 160.
- Lashkari Bod, A., Rakhshani, E., Talebi, A.A., Lozan, A. and Žikić, V. 2011a. A contribution to the knowledge of the Braconidae (Hym., Ichneumonoidea) of Iran. *Biharean Biologist*, 5 (2): 147-150.
- Lashkari Bod, A., Rakhshani, E., Talebi, A.A., Lozan, A. and Žikić, V. 2011b. New records of Cheloninae (Förster, 1862) and Braconinae (Nees, 1811) (Insecta: Hymenoptera: Braconidae) from Iran. *Check List*, 7 (5): 632-634.
- Mackauer, M. 1963. Are-examination of C. F. Baker's collection of aphid parasites (Hymenoptera: Aphidiidae). *The Canadian Entomologist*, 95: 921-935.
- Mackauer, M. and Starý, P. 1967. Hymenoptera. Ichneumonoidea. World Aphidiidae. In: Delluchi, V. and Remaudière, G. (Eds.), *Index of Entomophagous Insects*, Le Francois, Paris, 1-195 pp.
- Mehrnejad, M.R. 2009. Primary and secondary parasitoids of *Kermania pistaciella* Amsel (Lepidoptera: Tineidae: Hieroxestinae). II. *Applied Entomology and Phytopathology*, 76 (2): 135-136.
- Mehrnejad, M.R. 2010. The parasitoids of the pistachio fruit Hull borer moth, *Arimania komaroffi*. *Applied Entomology and Phytopathology*, 78 (1): 34.
- Mehrnejad, M.R. and Basirat, M. 2009. Parasitoid complex of the pistachio twig borer moth *Kermania pistaciella* Amsel (Lepidoptera: Tineidae), in Iran. *Biocontrol Science and Technology*, 5: 499-510.
- Mehrparvar, M., Hatami, B. and Starý, P. 2005. Report of *Aphidius rosae* (Hym.: Braconidae), a parasitoid of rose aphid, *Macrosiphum rosae* (Hom.: Aphididae) from Iran. *Journal of Entomological Society of Iran*, 25 (1): 63-64.
- Mirabzadeh, A. 1968. Investigation of integrated control against alfalfa weevil (*Hypera postica*). Proceedings of the 8<sup>th</sup> Iranian Plant Protection Congress, p. 28.
- Mirfakhraie, Sh. and Dey, D. 2013. New records of Hymenoptera associated with *Pieris brassicae* L. (Lepidoptera: Pieridae) from Iran. Indian Society of Vegetable Science, National Symposium on Abiotic and Biotic Stress Management in Vegetable Crops.
- Mohammadbeigi, A. 2000. Natural enemies of the walnut aphids in Qazvin province. Proceedings of the 14<sup>th</sup> Iranian Plant Protection Congress, p. 273.
- Mokhtari, A., Sahragard, A., Rezwani, A. and Salehi, L. 2000. Study on five parasitoid species of the stone fruit aphids in Gilan province. Proceedings of the 14<sup>th</sup> Iranian Plant Protection Congress, p. 278.
- Monajemi, N. and Esmaili, M. 1981. Population dynamics of alfalfa aphids and their natural controlling factors, in Karadj. *Journal of Entomological Society of Iran*, 6 (1-2): 41-63.
- Moodi, S., Soleyman Nejadian, E., Savary, A. and Al-e-Osfur, M. 2004. Storage duration effects on the oviposition rate and sex ratio in parasitoid *Habrobracon hebetor* Say. in the insectarium. Proceeding of 16<sup>th</sup> Iranian Plant Protection Congress, p. 4.
- Mosavi, H., Havaskary, M., Monem, R., Khodaparast, S. and Sakenin, H. 2012. On a collection of Braconidae (Hymenoptera) from East Azarbaijan and vicinity, Iran. *Calodema*, 226: 1-4.
- Mossadegh, M.S., Starý, P. and Salehipour, H. 2011. Aphid parasitoids in a dry lowland area of Khuzestan, Iran (Hymenoptera, Braconidae, Aphidiinae). *Asian Journal of Biological Science*, 4: 175-181.
- Naderian, H., Ghahari, H. and Asgari, S. 2012. Species diversity of natural enemies in corn fields and surrounding grasslands of Semnan province, Iran. *Calodema*, 217: 1-8.
- Nazari, Y., Zamani, A.A., Masoumi, S.M., Rakhshani, E., Petrović-Obradović, O., Tomanović, S., Starý, P. and Tomanović, Ž. 2012. Diversity and host associations of aphid parasitoids (Hymenoptera: Braconidae: Aphidiinae) in the farmlands of western Iran. *Acta Entomologica Musei Nationalis Pragae*, 52: 559-584.
- Nikdel, M., Sadeghian, B. and Dordaei, M. 2004. Collection and identification of brown-tail moth's natural enemies in Arasbaran forest. The Joint Agriculture and Natural Resources Symposium, May 14-16, 2004, Tabriz, 1-5.

- Nixon, G. E. J. 1968. A revision of the genus *Microgaster* Latreille (Hymenoptera: Braconidae). *Bulletin of the British Museum (Natural History), Entomology series*, 22: 33–72.
- Nobakht, Z., Karimzadeh, J., Shakaram, J. and Jafari, S. 2015. Identification of parasitoids of *Apomyelois ceratoniae* (Zeller) (Lepidoptera, Pyralidae) on pomegranate in Isfahan province. *Journal of Entomology and Zoology Studies*, 3 (1): 287–289.
- Noori, P. 1988. The possibilities of biological control against *Heliothis* species with the use of the parasitic wasp *Habrobracon hebetor* Say. in the province of Bakhtaran. First Seminar on the Trend of Biological Control of Plant Pests, Pathogenic Agents, & Weeds. Tehran.
- Noori, P. 1994. The parasitism trend of the wasp *Habrobracon hebetor* Say on *Chloridea* spp. in chickpea fields of Kermanshah Province. *Applied Entomology and Phytopathology*, 61 (1–2): 22–30.
- Norouzi, A., Talebi, A.A., Fathipour, Y. and Lozan, A.I. 2009. *Apanteles laspeyresiellus* (Hymenoptera: Braconidae), a new record for Iran insect fauna. *Journal of Entomological Society of Iran*, 28 (2): 79–80.
- Papp, J. 1984. Palaearctic species of *Microgaster* Latreille (= *Microplitis* Förster) with description of seven new species (Hymenoptera, Braconidae, Microgastrinae). *Entomologische Abhandlungen*, 47: 95–140.
- Papp, J. 1986. A survey of the European species of *Apanteles* Först. (Hymenoptera, Braconidae: Microgastrinae). IX. The *glomeratus*-group, 1. *Annales Historico-Naturales Musei Nationalis Hungarici*, 78: 225–247.
- Papp, J. 1993. New Braconid wasps (Hymenoptera, Braconidae) in the Hungarian Natural History Museum, 4. *Annales Historico-Naturales Musei Nationalis Hungarici*, 84: 155–180.
- Papp, J. 1996. On the taxonomy of *Microchelonus cycloporus* (Franz 1930) (Insecta: Hymenoptera: Braconidae: Cheloninae). *Senckenbergiana Biologica*, 75 (1–2): 203–206.
- Papp, J. 1997. Revision of the *Chelonus* s.str. species described by C. G. Thomson (Hymenoptera: Braconidae, Cheloninae). *Stobaeana*, 10: 1–21.
- Papp, J. 2005. A revision of the *Bracon* (*Lucobracon*) species described by Szepligeti from the western Palaearctic Region (Hymenoptera: Braconidae, Braconinae). *Annales Historico Naturales Musei Nationalis Hungarici*, 97: 197–224.
- Papp, J. 2012. A revision of the *Bracon* Fabricius species in Wesmael's collection deposited in Brussels (Hymenoptera: Braconidae: Braconinae). *European Journal of Taxonomy*, 21: 1–154. DOI: <http://dx.doi.org/10.5852/ejt.2012.21>
- Papp, J. 2014. Faunistic contributions to the *Microchelonus* Szépligeti species of the Palaearctic region, with descriptions of two new species (Hymenoptera: Braconidae: Cheloninae). *Acta Zoologica Academiae Scientiarum Hungaricae*, 60 (4): 325–358.
- Pasandideh, A., Talebi, A.A., Hajiqanbar, H. and Tazerouni, Z. 2015. Host stage preference and age-specific functional response of *Praon volucre* (Hymenoptera: Braconidae, Aphidiinae) a parasitoid of *Acyrtosiphon pisum* (Hemiptera: Aphididae). *Journal of Crop Protection*, 4 (4): 563–575.
- Peris-Felipo, F.J., Rahmani, Z., Belokobylskij, S.A. and Rakhshani, E. 2014. Genus *Indiopijs* Fischer, 1966 (Hymenoptera, Braconidae, Opiinae) in Iran with a key to the world species. *Zookeys*, 368: 37–44. DOI: <http://dx.doi.org/10.3897/zookeys.368.6658>
- Peris-Felipo, F.J., Ameri, A., Talebi, A.A., Belokobylskij, S.A. 2015. Review of the genus *Aristelix* Nixon, 1943 (Hymenoptera, Braconidae, Alysiniinae), with description of a new species from Iran and clarification of the status of *Antrusa chrysogastra* (Tobias, 1986). *Journal of Hymenoptera Research*, 45: 97–111. DOI: <http://dx.doi.org/10.3897/JHR.45.5313>
- Peris-Felipo, F.J., Yari, Z., van Achterberg, C., Rakhshani, E. and Belokobylskij, S.A. 2016. Review of species of the genus *Adelurola* Strand, 1928, with a key to species (Hymenoptera, Braconidae, Alysiniinae). *Zookeys*, 566: 13–30. DOI: <http://dx.doi.org/10.3897/zookeys.566.6684>
- Pirhadi, A., Rajabi, G., Ebrahimi, E., Ostovan, H., Shekarian Moghadam, B., Mohiseni,

- A.A., Mozaffarian, F. and Ghavami, S. 2008. Natural enemies of cereal leaf miner *Syringopais temperatella* Led. (Lep.: Elachistidae) in Lorestan province. Proceeding of 18<sup>th</sup> Iranian Plant Protection Congress, p. 71.
- Radjabi, Gh. 1976. *Xylophagous insects of rosaceous fruit trees in Iran*. Plant pests and diseases research institute, Tehran, Iran, 241 pp.
- Radjabi, Gh. 1986. *Insects attacking rosaceous fruit trees in Iran*. Vol. II., Lepidoptera. Plant pests and diseases research institute, Tehran, Iran, 209 pp.
- Radjabi, Gh. 1989. *Insects attacking rosaceous fruit trees in Iran*. Vol. III., Homoptera. Plant pests and deases research Institute, Tehran, 256 pp.
- Radjabi, Gh. 1991. *Insects attacking Rosaceous fruit trees in Iran*. Vol. I., Coleoptera. Plant pests and deases research Institute, Tehran, 221 pp.
- Rajabi-Mazhar, N., Rakhshani, E., Tomanović, Ž. and Starý, P. 2008. *Aphidius tanacetarius* Mackuer (Hym., Braconidae, Aphidiinae) a newly detected aphid parasitoid from Iran. Proceedings of the 18<sup>th</sup> Iranian Plant Protection Congress, p. 78.
- Rakhshani, E. 2012. Aphid parasitoids (Hym., Braconidae, Aphidiinae) associated with pome and stone fruit trees in Iran. *Journal of Crop Protection*, 1 (2): 81-95.
- Rakhshani, E., Talebi, A.A., Kavallieratos, N. and Fathipour, Y. 2004. Host stage preference, juvenile mortality and functional response of *Trioxys pallidus* (Hymenoptera: Aphidiinae). *Biologia*, 59: 197-203.
- Rakhshani, E., Talebi, A.A., Kavallieratos, N.G., Rezwani, A., Manzari, S. and Tomanović, Ž. 2005a. Parasitoid complex (Hymenoptera, Braconidae, Aphidiinae) of *Aphis craccivora* Koch (Hemiptera: Aphidoidea) in Iran. *Journal of Pest Science*, 78: 193-198. DOI: <http://dx.doi.org/10.1007/s10340-004-0080-3>
- Rakhshani, E., Talebi, A.A. Starý, P., Manzari, S. and Rezwani, A. 2005b. Re-description and biocontrol information of *Pauesia antennata* (Mukerji) (Hym., Braconidae, Aphidiinae), parasitoid of *Pterochloroides persicae* (Chol.) (Hom., Aphidoidea, Lachnidae). *Journal of Entomological Research Society*, 7 (3): 59-59.
- Rakhshani, E., Talebi, A.A., Manzari, S., Rezwani, A. and Rakhshani, H. 2006a. An investigation on alfalfa aphids and their parasitoids in different parts of Iran, with a key to the parasitoids (Hemiptera: Aphididae; Hymenoptera: Braconidae: Aphidiinae). *Journal of Entomological Society of Iran*, 25 (2): 1-14.
- Rakhshani, E., Talebi, A.A., Starý, P., Tomanović, Ž., Manzari, S., Kavallieratos, N.G. and Cetković, A. 2006b. A new species of *Aphidius* Nees, 1818 (Hymenoptera, Braconidae, Aphidiinae) attacking *Uroleucon* aphids (Homoptera, Aphididae) from Iran and Iraq. *Journal of Natural History*, 40 (32-34): 1923-1929. DOI: <http://dx.doi.org/10.1080/00222930601046451>
- Rakhshani, E., Talebi, A.A., Manzari, S., Tomanović, Ž., Starý, P. and Rezwani A. 2007a. Preliminary taxonomic study of the genus *Praon* (Hymenoptera: Braconidae: Aphidiinae) and its host associations in Iran. *Journal of Entomological Society of Iran*, 26 (2): 19-34.
- Rakhshani, E., Talebi, A.A., Starý, P., Tomanović, Ž. and Manzari, S. 2007b. Aphid-parasitoid (Hymenoptera: Braconidae: Aphidiinae) associations on Willows and Poplars in Iran. *Acta Zoologica Academiae Scientiarum Hungaricae*, 53 (3): 2281-292.
- Rakhshani, E., Talebi, A.A., Starý, P., Tomanović, Ž., Manzari, S. and Kavallieratos, N.G. 2008a. A review of *Aphidius* Nees (Hymenoptera, Braconidae, Aphidiinae) in Iran: host associations, distribution and taxonomic notes. *Zootaxa*, 1767: 37-54.
- Rakhshani, E., Tomanović, Ž., Starý, P., Talebi, A.A., Kavallieratos, N.G., Zamani, A.A. and Stanković, S. 2008b. Distribution and diversity of wheat aphid parasitoids (Hymenoptera: Braconidae: Aphidiinae) in Iran. *European Journal of Entomology*, 105: 863-870.
- Rakhshani, E., Kazemzadeh, S., Talebi, A.A., Starý, P., Manzari, S., Rezwani, A. and Asadi, G. 2008c. Preliminary taxonomic

- study of genus *Trioxys* Haliday (Hym., Braconidae, Aphidiinae) and its host associations in Iran. Proceedings of the 18<sup>th</sup> Iranian Plant Protection Congress, p. 97.
- Rakhshani, E., Tomanović, Ž., Starý, P., Kavallieratos, N.G., Ilic, M., Stankovic, S. and Rajabi-Mazhar, N. 2011. Aphidiinae parasitoids (Hymenoptera: Braconidae) of *Macrosiphoniella* aphids (Hemiptera: Aphididae) in the western Palaearctic region. *Journal of Natural History*, 45: 41–42.
- Rakhshani, E., Starý, P. and Tomanović, Ž. 2012a. Species of *Adialytus* Förster, 1862 (Hymenoptera, Braconidae, Aphidiinae) in Iran: taxonomic notes and tritrophic associations. *ZooKeys*, 221: 81–95.
- Rakhshani, E., Kazemzadeh, S., Starý, P., Barahoei, H., Kavallieratos, N. G., Četković, A., Popović, A., Bodlah, I. and Tomanović, Ž. 2012b. Parasitoids (Hymenoptera: Braconidae: Aphidiinae) of northeastern Iran: Aphidiine-aphid-plant associations, key and description of a new species. *Journal of Insect Science*, 12: 143.
- Rakhshani, E., Starý, P., Pérez Hidalgo, N., Čkrkić J., Ghafouri Moghaddam, M., Tomanović, S., Petrović, A. and Tomanović, Ž. 2015. Revision of the world *Monoctonia* Starý, parasitoids of gall aphids: taxonomy, distribution, host range, and phylogeny (Hymenoptera, Braconidae: Aphidiinae). *Zootaxa*, 3905 (4): 474–488.
- Ranjbar Aghdam, H. and Fathipour, Y. 2010. First report of parasitoid wasps, reported *Ascogaster quadridentata* and *Bassus rufipes* (Hym.: Braconidae) on codling moth (Lep.: Tortricidae) larvae from Iran. *Journal of Entomological Society of Iran*, 30(1): 55–58.
- Rassipour, A. 1983. Etude biologique d'*Apanteles chilonis* Mun. (Hym.: Braconidae) en vue de la lutte biologique contre la pyrrale du riz, *Chilo suppressalis* Walk. (Lep.: Pyralidae). *Bulletin of Plant Protection Organization of Iran*, 29: 1–24.
- Rastegar, J., Sakenin, H., Khodaparast, S. and Havaskary, M. 2012. On a collection of Braconidae (Hymenoptera) from East Azarbaijan and vicinity, Iran. *Calodema*, 226: 1–4.
- Rasulian, Gh. 1985. Investigation of the biology and population fluctuations of important alfalfa aphids in Karaj. Ph.D dissertation, University of Tehran. 126 pp.
- Rasulian, Gh. 1989. Evaluation of some natural enemies of alfalfa aphids. Proceedings of the 9<sup>th</sup> Iranian Plant Protection Congress, p. 16.
- Razmi, M., Karimpour, Y., Safaralizadeh, M. H. and Safavi, S. A. 2011. Parasitoid complex of cabbage large white butterfly *Pieris brassicae* (L.) (Lepidoptera, Pieridae) in Urmia with new records from Iran. *Journal of Plant Protection Research*, 51 (3): 248–251.
- Rehman, A. and Powell, W. 2010. Host selection behaviour of aphid parasitoids (Aphidiidae: Hymenoptera). *Journal of Plant Breeding and Crop Science*, 2: 299–311.
- Rezaei, M., Karimzadeh, J., Shakarami, J. and Jafari, S. 2014. Side effects of insecticides on the adult longevity of *Cotesia vestalis*, a larval parasitoid of the diamondback moth, *Plutella xylostella*. *Journal of Entomology and Zoology Studies*, 2 (4): 49–51.
- Saadat, D., Bandani, A.R. and Dastranj, M. 2014. Comparison of the developmental time of *Bracon hebetor* (Hymenoptera: Braconidae) reared on five different lepidopteran host species and its relationship with digestive enzymes. *European Journal of Entomology*, 111 (4): 495–500. DOI: <http://dx.doi.org/10.14411/eje.2014.069>
- Sabzevari, A. 1968. Lepidopterous pest on apricot. Proceeding of 1<sup>st</sup> Iranian Plant Protection Congress, 63–80 pp.
- Sakenin, H., Ghahari, H., Lehr, P.A., Ostovan, H. and Havaskary, M. 2009a. A contribution to the robber flies (Diptera: Asilidae) from Arasbaran region and vicinity, Northeastern Iran. 10<sup>th</sup> Arab Congress of Plant Protection. *Arab Journal of Plant Protection*, 27: 42–43 pp.
- Sakenin, H., Eslami, B., Samin, N., Imani, S., Shirdel, F. and Havaskary, M. 2009b. A contribution to the most important trees and shrubs as the hosts of wood-boring beetles in different regions of Iran and identification of many natural enemies. *Plant and Ecosystems*, 16 (4): 27–46.
- Sakenin, H., Fischer, M., Samin, N., Imani, S., Papp, J., Ghahari, H. and Rastegar, J. 2011. A

- faunistic survey on the Braconidae wasps (Hymenoptera: Braconidae) from northern Iran. Proceedings of Global Conference on Entomology, March 5-9, 2011 Chiang Mai, Thailand, p. 123.
- Sakenin, H., Naderian, H., Samin, N., Rastegar, J., Tabari, M. and Papp, J. 2012. On a collection of Braconidae (Hymenoptera) from northern Iran. *Linzer Biologische Beiträge*, 44 (2): 1319-1330.
- Samin, N. 2015. A faunistic study on the Braconidae of Iran (Hymenoptera: Ichneumonoidea). *Arquivos Entomoloxicos*, 13: 339-345.
- Samin, N., Sakenin, H., Imani, S. and Shojai, M. 2011. A study on the Braconidae (Hymenoptera) of Khorasan province and vicinity, Northeastern Iran. *Phegea*, 39 (4): 137-143.
- Samin, N., Ghahari, H., Gadallah, N.S. and Davidian, E. 2014. A study on the Braconidae (Hymenoptera: Ichneumonoidea) from West Azarbaijan province, Northern Iran. *Linzer Biologische Beiträge*, 46 (2): 1447-1478.
- Samin, N., Ghahari, H., Gadallah, N.S. and Monaem, R. 2015a. A study on the braconid wasps (Hymenoptera: Ichneumonoidea: Braconidae) from Golestan province, northern Iran. *Linzer Biologische Beiträge*, 47 (1): 731-739.
- Samin, N., van Achterberg, K. and Ghahari, H. 2015b. A faunistic study of Braconidae (Hymenoptera: Ichneumonoidea) from southern Iran. *Linzer Biologische Beiträge*, 47 (2): 1801-1809.
- Sedighi, S., Madjdzadeh, S.M. and Rakhshani, E. 2014. A survey on Alysiinae (Hym.: Braconidae) associated with Alfalfa in central part of Sistan Baluchistan Province. Third Integrated Pest Management Conference (IPMC), 21-22 January 2014, Kerman, Iran.
- Sedighi, S. and Madjdzadeh, S.M. 2015. Updated checklist of Iranian Euphorinae (Hymenoptera: Ichneumonoidea: Braconidae). *Biharian Biologist*, 9 (2): 98-104.
- Siahpoush, A., Azimi, A., Rabee, R. and Mozaffari, M. 1993. Introduction of three species of *Mythimna* (Lep.: ne) at Khuzestan corn fields. Proceedings XI Plant Protection Congress of Iran, p. 94.
- Simbolotti, G. and van Achterberg, C. 1999. Revision of the west Palaearctic species of the genus *Agathis* Latreille (Hymenoptera: Braconidae: Agathidinae). *Zoologische Verhandelingen Leiden*, 325: 1-167.
- Shahabi, M. and Rajabpour, A. 2015. Activity evaluation of *Bracon hebetor* Say (Hym.: Braconidae) against *Phthorimea operculella* Zeller on two potato varieties in north of Khuzestan province, Iran. Proceedings of 1<sup>st</sup> Iranian International Congress of Entomology, 192-196 pp.
- Shahhosseini, M.J. and Kamali, K. 1989. A checklist of Insects mites and rodents affecting stored products in Iran. *Journal of Entomological Society of Iran*, 5: 1-47.
- Shamszadeh, M. 1998. Introducing of *Cardiochiles shestakovi* (Hym.: Braconidae) parasitoid of *Proceratia caesariella* larva in Yazd province. *Pajohesh & Sazandegi*, 39: 47-49. [In Persian].
- Sharkey, M.J. 1998. Agathidinae. pp.520-531. In: Ler, P.A. (Ed.), *Key to the insects of Russian Far East*. Vol. 4. Neuropteroidea, Mecoptera, Hymenoptera. Pt 3., 708 pp.
- Shaw, M.R. and Huddleston, T. 1991. *Classification and Biology of Braconid Wasps (Hymenoptera: Braconidae)*. Royal Entomological Society of London. Handbooks for the Identification of British Insects, London, 126 pp.
- Shenefelt, R.D. 1973. *Braconidae 5. Microgasterinae & Ichneutinae*. Hymenopterorum Catalogus (nova editio). 9:669-812.
- Shenefelt, R.D. 1975. *Braconidae 8. Exothecinae, Rogadinae*. Hymenopterorum Catalogus (nova editio). 12:1115-1262.
- Shenefelt, R.D. and Marsh, P.M. 1976. *Braconidae 9. Doryctinae*. Hymenopterorum Catalogus (nova editio). 13:1263-1424.
- Shestakov, A. 1926. Species palaearticae novae Braconidarum subfamiliae Braconinarum (Hymenoptera). *Entomologicheskoye Obozreniye*, 19: 208-212.
- Shojai, M. 1968. Resultats de létude faunistiques des Hyménoptères parasites



- (Terebrants) en Iran et l'importance de leur utilisation des la lute biologique. The First National Congress of Plant Medicine of Iran, 25-35 pp.
- Shojai, M. 1989. *Entomology (ethology, social life and natural enemies) (Biological control)*. Vol. III., Second edition, University of Tehran Publication, 406 pp.
- Shojai, M. 1998. *Entomology (ethology, social life and natural enemies) (Biological control)*. Vol. III. Tehran University Publications, 550 pp.
- Sobhani, M., Goldansaz, S.H. and Hatami, B. 2012. Study of larval parasitoids of carob moth *Ectomyelois ceratoniae* (Lep.: Pyralidae) in Kashan region. Proceedings of 20<sup>th</sup> Iranian Plant Protection Congress, p. 83.
- Starý, P. 1979. *Aphid Parasites (Hymenoptera, Aphidiidae) of the Central Asian Area*. Academia, Praha, 127 pp.
- Starý P. 2006. *Aphid parasitoids of the Czech Republic (Hymenoptera: Braconidae: Aphidiinae)*. Academia, Praha, 430 pp.
- Starý, P. and Gonzalez, D. 1978. Parasitoid spectrum of *Acyrtosiphon* aphids in Central Asia (Hymenoptera: Aphidiidae). *Scandinavian Entomology*, 9: 140-145.
- Starý, P., Remaudière, G., González, D. and Shahrokhi, S. 2000. A review and host associations of aphid parasitoids (Hymenoptera: Braconidae: Aphidiinae) of Iran. *Parasitica*, 56: 15-41.
- Starý, P., Rakhshani, E. and Talebi, A.A. 2005. Parasitoids of aphid pests on conifers and their state as biocontrol agents in the Middle East to Central Asia on the world background (Hym., Braconidae, Aphidiinae; Hom., Aphididae). *Egyptian Journal of Biological Pest Control*, 15 (2): 147-151.
- Stigenberg, J. and Ronquist, F. 2011. Revision of the Western Palearctic Meteorini (Hymenoptera, Braconidae), with a molecular characterization of hidden Fennoscandian species diversity. *Zootaxa*, 3084: 1-95.
- Taeger, A. 1989. *Die Orgilus-Arten der Paläarkt (Hymenoptera, Braconidae)*. Arbeit aus dem Institut für Pflanzenschutzforschung Kleinmachnow, Bereich Eberswalde. Berlin, 260 pp.
- Talebi, A.A., Rakhshani, E., Fathipour, Y., Starý, P., Tomanović, Ž. and Rajabi-Mazhar, N. 2009. Aphids and their parasitoids (Hym., Braconidae: Aphidiinae) associated with medicinal plants in Iran. *American-Eurasian Journal of Sustainable Agriculture*, 3 (2): 205-219.
- Taheri, S. and Rakhshani, E. 2013. Identification of aphid parasitoids (Hym., Braconidae, Aphidiinae) and determination of their host relationships in Southern Zagros. *Journal of Plant Protection*, 27 (1): 85-95.
- Tahriri, S., Talebi, A.A., Fathipour, Y. and Zamani, A. A. 2007. Host stage preference, functional response and mutual interference of *Aphidius matricariae* (Hym.: Braconidae: Aphidiinae) on *Aphis fabae* (Hom.: Aphididae). *Entomological Science*, 10: 323-331. DOI: <http://dx.doi.org/10.1111/j.1479-8298.2007.00234.x>
- Tahriri, S., Talebi, A.A., Fathipour, Y. and Zamani, A. A. 2010. Life history and demographic parameters of *Aphis fabae* (Hemiptera: Aphididae) and its parasitoid, *Aphidius matricariae* (Hymenoptera: Aphidiidae) on four sugar beet cultivars. *Acta Entomologica Serbica*, 15 (1): 61-73.
- Tavoosi Ajvad, F., Madadi, H., Sobhani, M. and van Achterberg, C. 2014. First report of *Dinocampus coccinellae* (Hym.: Braconidae) from Iran. *Journal of Entomological Society of Iran*, 33 (4): 77.
- Tazerouni, Z., Talebi, A.A. and Rakhshani, E. 2011. The foraging behavior of *Diaeretiella rapae* (Hymenoptera: Braconidae) on *Diuraphis noxia* (Hemiptera: Aphididae). *Archives of Biological Sciences*, 63 (1): 225-234. DOI: <http://dx.doi.org/10.2298/ABS1101225T>
- Tazerouni, Z., Talebi, A.A. and Rakhshani, E. 2012a. Comparison of development and demographic parameters of *Diuraphis noxia* (Hem., Aphididae) and its parasitoid, *Diaeretiella rapae* (Hym., Braconidae: Aphidiinae). *Archives of Phytopathology and Plant Protection*, 45 (8): 886-897. DOI: <http://dx.doi.org/10.1080/03235408.2011.599150>
- Tazerouni, Z., Talebi, A.A. and Rakhshani, E. 2012b. Temperature-dependent functional response of *Diaeretiella rapae* (Hymenoptera:

- Braconidae), a parasitoid of *Diuraphis noxia* (Hemiptera: Aphididae). *Journal of the Entomological Research Society*, 14 (1): 1–40.
- Tazerouni, Z., Talebi, A.A., Fathipour, Y. and Soufbaf, M. 2016. Bottom-up effect of two host plants on life table parameters of *Aphis gossypii* (Hemiptera: Aphididae). *Journal of Agricultural Science and Technology*, 18 (1): 179–190.
- Telenga, N.A. 1936. *Braconidae*. Pt. 1. Hymenoptera. Fauna USSR. Hymenoptera, 402 pp.
- Telenga, N.A. 1941. *Family Braconidae, subfamily Braconinae (continuation) and Sigalphinae*. Fauna USSR. Hymenoptera, 466 pp.
- Telenga, N.A. 1955. *Braconidae, subfamily Microgasterinae, subfamily Agathinae*. Fauna USSR, Hymenoptera, 311 pp.
- Tobias, V.I. 1972. Contributions to the knowledge of the subgenus *Chelonus* s. str. of the USSR and near-by territories. *Trudy Vsesoyuznogo Entomologicheskogo Obshchestva*, 55: 284–299.
- Tobias, V.I. 1976. *Braconids of the Caucasus (Hymenoptera, Braconidae)*. Opred. Faune SSSR. Nauka Press. Leningrad, 286 pp.
- Tobias, V.I. 1986. Family Braconidae. In: Medvedev, G.S. (Ed.), *Key to the insects of the European part of the USSR*. Volume III, Hymenoptera Part IV. Academy of Sciences of the USSR, New Delhi: Amerind Publishing, 908 pp.
- Tobias, V.I. 2001. Species of the genus *Microchelonus* Szépl. (Hymenoptera, Braconidae) with yellow abdominal spots and pale coloration of the body from the western Palearctic region. *Entomologicheskoye Obozreniye*, 80: 137–179.
- Tobias, V.I. 2010. Palearctic species of the genus *Microchelonus* Szépligetii (Hymenoptera: Braconidae, Cheloninae): key to species. *Proceedings of the Russian Entomological Society*, 81(1): 1–354.
- Tomanović, Ž., Rakhshani, E., Starý, P., Kavallieratos, N.G., Stanisavljević, L.Ž., Žikić, V. and Athanassiou, C.G. 2007. Phylogenetic relationships between the genera *Aphidius* Nees and *Lysaphidus* (Hymenoptera: Braconidae: Aphidiinae) with description of *Aphidius iranicus* sp. nov. *The Canadian Entomologist*, 139: 297–307.
- Tomanović, Ž., Petrović, A., Mitrović, M., Kavallieratos, N.G., Starý, P., Rakhshani, E., Rakhshanipour, M., Popović, A., Shukshuk, A.H. and Ivanović, A. 2014. Molecular and morphological variability within the *Aphidius colemani* group with redescription of *Aphidius platensis* Brethes (Hymenoptera: Braconidae: Aphidiinae). *Bulletin of Entomological Research*, 104: 552–565. DOI: <http://dx.doi.org/10.1017/S0007485314000327>
- van Achterberg, C. 1979. A revision of the subfamily Zelinae auct. (Hymenoptera, Braconidae). *Tijdschrift voor Entomologie*, 122: 241–479.
- van Achterberg, C. 1990. Revision of the western Palearctic Phanerotomini (Hymenoptera: Braconidae). *Zoologische Verhandelingen*, 255: 1–106.
- van Achterberg, C. 2011. Order Hymenoptera, family Braconidae. The subfamily Agathidinae from the United Arab Emirates, with a review of the fauna of the Arabian Peninsula. *Arthropod fauna of the United Arab Emirates*, 4: 286–352.
- van Achterberg, C. 2014. Notes on the checklist of Braconidae (Hymenoptera) from Switzerland. *Mitteilungen der Schweizerischen Entomologischen Gesellschaft*, 87: 191–213.
- van Achterberg, C. and Mehrnejad, M.R. 2002. The braconid parasitoids (Hymenoptera: Braconidae) of *Kermania pistaciella* Amsel (Lepidoptera: Tineidae: Hieroxestinae) in Iran. *Zoologische Mededelingen*, 76 (2): 27–39.
- van Achterberg, C. and Mehrnejad, M. R. 2011. A new species of *Megalommum* Szépligetii (Hymenoptera, Braconidae, Braconinae), a parasitoid of the pistachio longhorn beetle (*Calchaenesthes pistacivora* Holzschuh; Coleoptera, Cerambycidae) in Iran. *ZooKeys*, 112: 21–38. DOI: <http://dx.doi.org/10.3897/zookeys.112.1753>
- van Achterberg, C. and Walker, A. K. 1998. Braconidae, pp. 137–185. In: Polaszek, A. (Ed.), *African cereal Stem Borers. economic importance, taxonomy, natural enemies and control*, pp. 1–530. CAB international wallingford.

- Yaghubi, P. 1997. Faunal study of Aphidiinae in Gilan provincr. MSc thesis, Faculty of Science, University of Tehran, 105 pp.
- Yu, D.S., van Achterberg, C. and Horstmann, K. 2012. World Ichneumonidea 2011. Taxonomy, Biology, Morphology and Distribution (Braconidae). Ottawa: Taxapad (Scientific Names for Information Management) Interactive Catalogue. DVD/CD-ROM.
- Zamani, A. A., Talebi, A.A., Fathipour, Y. and Baniameri, V. 2006. Temperature-dependent functional response of two aphid parasitoids, *Aphidius colemani* and *Aphidius matricariae* (Hymenoptera: Aphidiidae), on the cotton aphid. *Journal of Pest Science*, 79: 183-188. DOI: <http://dx.doi.org/10.1007/s10340-006-0132-y>
- Zamani, A. A., Talebi, A.A., Fathipour, Y. and Baniameri, V. 2007. Effect of temperature on life history of *Aphidius colemani* and *Aphidius matricariae* (Hymenoptera: Braconidae), two parasitoids of *Aphis gossypii* and *Myzus persicae* (Homoptera: Aphididae). *Environmental Entomology*, 36 (2): 263-271. DOI: <http://dx.doi.org/10.1603/0046-225X-36.2.263>
- Zamani, A. A., Haghani, M. and Kheradmand, K. 2012. Effect of temperature on reproductive parameters of *Aphidius colemani* and *Aphidius matricariae* (Hymenoptera: Braconidae) on *Aphis gossypii* (Hemiptera: Aphididae) in laboratory conditions. *Journal of Crop protection*, 1 (1): 35-40.
- Zargar, M., Talebi, A.A., Hajiqanbar, H., Farahani, S. and Ameri, A. 2014a. A contribution to the knowledge Braconinae (Hymenoptera: Braconidae) in some parts of northern and southern Iran. *Journal of Crop Protection*, 3 (2): 233-243.
- Zargar, M., Talebi, A.A., Hajiqanbar, H. and Papp, J. 2014b. First report of *Bracon (Glabrobracon) parvulus* (Hymenoptera: Braconidae: Braconinae) from Iran. Proceeding of 21<sup>st</sup> Iranian Plant Protection Congress, p. 491.
- Zargar, M., Talebi, A.A., Hajiqanbar, H. and Papp, J. 2015. A study on the genus *Bracon Fabricius* (Hymenoptera: Braconidae) in north central Iran with four new records for Iranian fauna. *Entomofauna*, 36 (32): 425-440.
- Zettel, H. 1990. Die *Phanerotoma*-Arten des indischen Subkontinents (Insecta, Hymenoptera, Braconidae, Cheloninae). *Reichenbachia*, 27 (15-31): 147-158.
- Žikić, Ž., Tomanović, Ž., Ivanović, A., Kavallieratos, N.G., Starý, P., Stanisavljević L.Z. and Rakhshani, E. 2009. Morphological characterization of *Ephedrus persicae* biotypes (Hymenoptera: Braconidae: Aphidiinae) in the Palaearctic. *Annals of the Entomological Society of America*, 102 (1): 1-11.
- Žikić, V., Lotfalizadeh, H., Sadeghi, S., Petrovic, A., Jankovic, M. and Tomanovic, Ž. 2014. New record and new associations of two leaf miner parasitoids (Hymenoptera: Braconidae: Microgastrinae) from Iran. *Archives of Biological Science Belgrade*, 66 (4): 1591-1594. DOI: <http://dx.doi.org/10.2298/ABS1404591Z1591>

## خانواده Braconidae (Insecta: Hymenoptera: Ichneumonoidea) در ایران: تنوع، انتشار و ارتباطات میزبانی

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**چکیده:** لیست به روز شده زنبورهای خانواده Braconidae (Hymenoptera: Ichneumonoidea) که از ایران در طی بیش از ۱۰۰ سال گذشته (۱۳۹۵-۱۲۸۰ هجری شمسی) از ایران گزارش شده است ارائه شده است. این فهرست شامل ۷۸۰ گونه از ۱۴۱ جنس و ۲۶ زیر خانواده را شامل می شود که در بین آنها ۳۴ گونه منحصراً متعلق به فون ایران هستند. اطلاعات مربوط به میزبان های شناخته شده و انتشار جغرافیایی گونه ها در ایران ارائه شده است.

**واژگان کلیدی:** فهرست گونه‌ها، زنبورهای پارازیتوئید، Braconidae، فون، ایران