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Table 1- continued

	Species	References
90	<i>Aprostocetus taxi</i> Graham, 1987	Razmi <i>et al.</i> , 2011
91	<i>Aprostocetus toddaliae</i> (Risbec, 1958)	Fallahzadeh <i>et al.</i> , 2006, Fallahzadeh <i>et al.</i> , 2010
92	<i>Aprostocetus trjaitzini</i> (Kostjukov, 1976)	Fallahzadeh <i>et al.</i> , 2008
93	<i>Aprostocetus venustus</i> (Gahan, 1914)	Yefremova <i>et al.</i> , 2007
94	<i>Aprostocetus zosimus</i> (Walker, 1839)	Graham, 1991; Hesami <i>et al.</i> , 2010
95	<i>Baryscapus anasillus</i> Graham, 1991	Nazemi-Rafie <i>et al.</i> , 2007
96	<i>Baryscapus conwentziae</i> (Ferriere, 1959)	Yefremova <i>et al.</i> , 2007; Ebrahimi <i>et al.</i> , 2009
97	<i>Baryscapus endemus</i> (Walker, 1839)	Yefremova <i>et al.</i> , 2007; Ebrahimi <i>et al.</i> , 2009
98	<i>Baryscapus erynniae</i> (Domenichini, 1966)	Mahani <i>et al.</i> , 2003; Hesami <i>et al.</i> , 2010
99	<i>Baryscapus evonymellae</i> (Bouche, 1834)	Graham, 1991; Hesami <i>et al.</i> , 2006
100	<i>Baryscapus hylesini</i> Graham, 1991	Yefremova <i>et al.</i> , 2007
101	<i>Baryscapus impeditus</i> (Nees, 1834)	Dousti <i>et al.</i> , 2008
102	<i>Baryscapus nigroviolaceus</i> (Nees, 1834)	Yefremova <i>et al.</i> , 2007
103	<i>Baryscapus oophagus</i> (Otten, 1942)	Yefremova <i>et al.</i> , 2007; Ebrahimi <i>et al.</i> , 2009, Hesami <i>et al.</i> , 2010
104	<i>Baryscapus pallidae</i> Graham, 1991	Graham, 1991
105	<i>Baryscapus sugonjaevi</i> (Kostjukov, 1976)	Fallahzadeh <i>et al.</i> , 2011
106	<i>Chouioia cunea</i> Yang, 1989	Rezaei <i>et al.</i> , 2003
107	<i>Citrostichus phillocnistoides</i> (Narayanan, 1960)	Yefremova <i>et al.</i> , 2007; Ebrahimi <i>et al.</i> , 2009
108	<i>Leptocybe invasa</i> Fisher & LaSalle, 2004	Hesami <i>et al.</i> , 2004; Mendel <i>et al.</i> , 2004
109	<i>Melittobia acasta</i> (Walker, 1839)	Thompson, 1954
110	<i>Minotetrastichus platanellus</i> (Mercet, 1922)	Haeselbarth, 1983
111	<i>Minotetrastichus frontalis</i> (Nees, 1834)	Amiri <i>et al.</i> , 2009
112	<i>Neotrichoporoides szelenyii</i> (Erdős, 1951)	Hesami <i>et al.</i> , 2010
113	<i>Oomyzus brevistigma</i> (Gahan, 1936)	Azmayesh-fard & Esmaili, 1981; Hesami <i>et al.</i> , 2010
114	<i>Oomyzus gallerucae</i> (Fonscolombe, 1832)	Azmayesh-fard & Esmaili, 1981; Domenichini, 1966; Zohdi & Talebi, 2011
115	<i>Oomyzus incertus</i> (Ratzeburg, 1844)	Domenichini, 1966; Graham, 1991
116	<i>Oomyzus sokolowskii</i> (Kurdjumov, 1912),	Golizadeh <i>et al.</i> , 2008; Afunizadeh <i>et al.</i> , 2010
117	<i>Pronotalia carlinarum</i> (Szelényi & Erdős, 1951)	Lotfalizadeh & Kazemi, 2010
118	<i>Pronotalia orobanchiae</i> Graham, 1991	Graham, 1991
119	<i>Sigmophora brevicornis</i> (Panzer, 1804)	Hesami <i>et al.</i> , 2006
120	<i>Tamarix radiata</i> (Waterston)	Hasanpour <i>et al.</i> , 2009
121	<i>Tamarixia upis</i> (Walker, 1839)	Yefremova <i>et al.</i> , 2007; Ebrahimi <i>et al.</i> , 2009
122	<i>Tetrastichus epilachnae</i> (Giard, 1896)	Kiryukhin, 1948; Herting, 1973

Table 1- continued

	Species	References
56	<i>Hemiptarsensis wailesellae</i> S. Novicky, 2003	Zahiri <i>et al.</i> , 2003
57	<i>Hemiptarsenus waterhousii</i> Westwood, 1833	Current article
58	<i>Hemiptarsenus zilahisebessi</i> Erdős, 1951	Talebi <i>et al.</i> , 2005; Asadi <i>et al.</i> , 2006
59	<i>Hyssopus geniculatus</i> (Hartig, 1838)	Yefremova <i>et al.</i> , 2007; Ebrahimi <i>et al.</i> , 2009
60	<i>Hyssopus nigrutilus</i> (Zetterstedt, 1838)	Current article
61	<i>Necremnus leucarthros</i> (Nees, 1834)	Akbari-Noushad, 1995
62	<i>Necremnus tidius</i> (Walker, 1839)	Yefremova <i>et al.</i> , 2007
63	<i>Pnigalio agraulis</i> (Walker, 1839)	Yefremova <i>et al.</i> , 2007; Amiri <i>et al.</i> , 2009; Ebrahimi <i>et al.</i> , 2009
64	<i>Pnigalio nemati</i> (Westwood, 1838)	Current article
65	<i>Pnigalio rotundiventris</i> (Erdős, 1954)	Yefremova <i>et al.</i> , 2007
66	<i>Pnigalio soemius</i> (Walker, 1839)	Yefremova <i>et al.</i> , 2007; Ebrahimi <i>et al.</i> , 2009
67	<i>Ratzeburgiola cristatus</i> (Ratzeburg, 1848)	Dousti <i>et al.</i> , 2008
68	<i>Rhincopelte crassicornis</i> (Nees, 1834)	Yefremova <i>et al.</i> , 2007
69	<i>Pnigalio pectinicornis</i> (L., 1758)	Haeselbarth, 1989; Yefremova <i>et al.</i> , 2007
70	<i>Stenomiesius rufescens</i> (Retzius, 1783)	Yefremova <i>et al.</i> , 2007; Ebrahimi <i>et al.</i> , 2009
71	<i>Sympiesis acalle</i> (Walker, 1848)	Amiri <i>et al.</i> , 2009
72	<i>Sympiesis angustipennis</i> (Erdős, 1954)	Yefremova <i>et al.</i> , 2007
73	<i>Sympiesis euspilaperygis</i> (Erdős, 1958)	Pirhadi <i>et al.</i> , 2008
74	<i>Sympiesis gordius</i> (Walker, 1839)	Yefremova <i>et al.</i> , 2007; Amiri <i>et al.</i> , 2009
75	<i>Sympiesis grahami</i> (Erdős, 1966)	Zargaran <i>et al.</i> , 2010
76	<i>Sympiesis gregori</i> Bouček, 1959	Yefremova <i>et al.</i> , 2007
77	<i>Sympiesis sericeicornis</i> (Nees, 1834)	Haeselbarth, 1985; Amiri <i>et al.</i> , 2009
78	<i>Zagrammosoma talitzkii</i> (Bouček, 1961)	Yefremova <i>et al.</i> , 2007; Amiri <i>et al.</i> , 2009
Tetrastichinae		
79	<i>Aprostocetus artemisicola</i> Graham, 1987	Hesami <i>et al.</i> , 2010
80	<i>Aprostocetus aurantiacus</i> (Ratzeburg, 1848)	Lotfalizadeh <i>et al.</i> , 2006
81	<i>Aprostocetus beyazus</i> Doğanlar, 1992	Doğanlar, 1992
82	<i>Aprostocetus bucculentus</i> Kostjukov, 1978	Yefremova <i>et al.</i> , 2007; Lotfalizadeh <i>et al.</i> , 2008
83	<i>Aprostocetus ceroplastae</i> (Girault, 1916)	Talebi <i>et al.</i> , 2008
84	<i>Aprostocetus eurytomae</i> (Nees, 1834)	Lotfalizadeh <i>et al.</i> , 2006
85	<i>Aprostocetus forsteri</i> (Walker, 1847)	Yefremova <i>et al.</i> , 2007; Hesami <i>et al.</i> , 2010
86	<i>Aprostocetus lachares</i> (Walker, 1839)	Domenchini, 1966; Graham, 1987; Hesami <i>et al.</i> , 2010
87	<i>Aprostocetus lutescens</i> Askew, 1997	Alemansour <i>et al.</i> , 2010
88	<i>Aprostocetus neglectus</i> (Domenchini, 1957)	Domenchini, 1966; Graham, 1987
89	<i>Aprostocetus persicus</i> Yefremova & Yegorenkova, 2007	Yefremova <i>et al.</i> , 2007

Table 1- continued

	Species	References
22	<i>Pediobius lysis</i> (Walker, 1839)	Yefremova <i>et al.</i> , 2007
23	<i>Pediobius metallicus</i> (Nees, 1834)	Mahmoudi <i>et al.</i> , 2011
24	<i>Pediobius pyrgo</i> (Walker, 1839)	Yefremova <i>et al.</i> , 2007; Ebrahimi <i>et al.</i> , 2009; Hesami <i>et al.</i> , 2010
25	<i>Pediobius saulius</i> (Walker, 1839)	Yefremova <i>et al.</i> , 2007; Ebrahimi <i>et al.</i> , 2009
	Eulophinae	
26	<i>Aulogymnus gallarum</i> (Linnaeus, 1761)	Yefremova <i>et al.</i> , 2007
27	<i>Aulogymnus skianeuros</i> (Ratzeburg, 1844)	Zargaran <i>et al.</i> , 2008
28	<i>Cirrospilus ingenuus</i> Gahan, 1932	Yefremova <i>et al.</i> , 2007; Ebrahimi <i>et al.</i> , 2009
29	<i>Cirrospilus lyncus</i> Walker, 1838	Yefremova <i>et al.</i> , 2007; Ebrahimi <i>et al.</i> , 2009
30	<i>Cirrospilus persicus</i> Lotfalizadeh & Delvare, 2011	Lotfalizade & Delvare, 2011
31	<i>Cirrospilus pictus</i> (Nees, 1834)	Baniameri & Mohammadi-Pour, 2007; Zargaran <i>et al.</i> , 2010
32	<i>Cirrospilus scapus</i> Yefremova, 2007	Yefremova <i>et al.</i> , 2007
33	<i>Cirrospilus staryi</i> Bouček, 1958	Ebrahimi <i>et al.</i> , 2009
34	<i>Cirrospilus variegatus</i> (Masi, 1907)	Hesami <i>et al.</i> , 2004
35	<i>Cirrospilus viticola</i> (Rondani, 1877)	Ebrahimi <i>et al.</i> , 2009
36	<i>Cirrospilus vittatus</i> Walker, 1838	Talebi <i>et al.</i> , 2005; Asadi <i>et al.</i> , 2006
37	<i>Diaulinopsis arenaria</i> (Erdös, 1951)	Dousti <i>et al.</i> , 2008; Yefremova <i>et al.</i> , 2007
38	<i>Dichatomus acerinus</i> Forster, 1878	OILB, 1971
39	<i>Diglyphus begini</i> (Ashmead, 1904)	Mahmoudi <i>et al.</i> , 2011
40	<i>Diglyphus chabrias</i> (Walker, 1838)	Yefremova <i>et al.</i> , 2007; Fallahzadeh <i>et al.</i> , 2006
41	<i>Diglyphus crassinervis</i> Erdös, 1958	Talebi <i>et al.</i> , 2005
42	<i>Diglyphus isaea</i> (Walker, 1838)	Talebi <i>et al.</i> , 2005; Asadi <i>et al.</i> , 2006
43	<i>Diglyphus minoeus</i> (Walker, 1838)	Yefremova <i>et al.</i> , 2007
44	<i>Diglyphus poppoea</i> Walker, 1848	Dousti, 2008
45	<i>Diglyphus pulchripes</i> (Crawford, 1912)	Dousti <i>et al.</i> , 2008
46	<i>Diglyphus pusztensis</i> Erdös & Novicky, 1951	Current article
47	<i>Diglyphus scapus</i> Yefremova, 2006	Hesami <i>et al.</i> , 2006
48	<i>Elachertus fenestratus</i> Nees, 1834	Behdad, 1982; Sahragard, 1977
49	<i>Elachertus gallicus</i> Erdös, 1958	Yefremova <i>et al.</i> , 2007; Ebrahimi <i>et al.</i> , 2009
50	<i>Elasmus nudus</i> Nees, 1834	Yefremova & Strakhova, 2010
51	<i>Euplectrus bicolor</i> (Swederus, 1795)	Naseri <i>et al.</i> , 1998
52	<i>Euplectrus flavipes</i> (Fonscolombe, 1832)	Eghtedar, 1989; Shojai, 1989
53	<i>Euplectrus liparidis</i> Ferriere, 1941	Yefremova <i>et al.</i> , 2007
54	<i>Hemiptarsenus unguicellus</i> (Zetterstedt, 1838)	Current article
55	<i>Hemiptarsenus varicornis</i> (Girault, 1913)	Yefremova <i>et al.</i> , 2007

Hansson & Straka, 2009) is recorded from Iran. Most of the species occur commonly in the other zoogeographical regions, three species are cosmopolitan (*C. variegates*, *D. isaeae*, *P. pectinicornis*), two species are distributed throughout the Palearctic region (*D. pustzensis*, *H. zilahisebessi*), three species previously reported in European countries (*E. nudus*, *H. waterhousii*, *Z. talitzkii*), five species are distributed in Northern hemisphere (*D. crassinervis*, *H. unguicellus*, *H. nigrifulus*, *P. nemati*, *P. soemius*) and one species in West Palaearctic (*E. agrili*). Based on the present article and review of literatures, recently there are 119 species of Eulophidae recorded from Iran (Table 1), one species of Entiinae, 21 species of Entedoninae, 53 species of Eulophinae and 44 species of Tetrastichinae. However, it seems that the Iranian fauna of Eulophidae is very rich and we should work further to understand the Eulophidae fauna of Iran, both, in more regions and examine more material.

Table 1. Checklist of recorded species of Eulophidae from Iran (until 2011).

	Species	References
Entiinae (=Euderinae)		
1	<i>Euderus agrili</i> Bouček, 1963	Hesami, 2009
Entedoniane		
2	<i>Achrysocharoides suprafolius</i> (Askew, 1974)	Amiri <i>et al.</i> , 2009
3	<i>Ceranisis amanosus</i> Doğanlar <i>et al.</i> , 2009	Tan <i>et al.</i> , 2010
4	<i>Ceranisis menes</i> (Walker, 1839)	Tan <i>et al.</i> , 2010
5	<i>Ceranisis planitianus</i> Erdős, 1966	Tan <i>et al.</i> , 2010
6	<i>Chrysocharis amyite</i> (Walker, 1839)	Yefremova <i>et al.</i> , 2007
7	<i>Chrysocharis laomedon</i> (Walker, 1839)	Mernejad & Basirat, 2009; Hesami <i>et al.</i> , 2010
8	<i>Chrysocharis polyzo</i> (Walker, 1839)	Zargaran <i>et al.</i> , 2010
9	<i>Derostenus persicus</i> Gumovsky, 2003	Gumovsky, 2003
10	<i>Entedon biroi</i> Erdős, 1944	Gumovsky, 1999
11	<i>Entedon ergias</i> Walker, 1839	Askew & Bouček, 1968
12	<i>Entedon thomsonianus</i> Erdős, 1944	Rajabi <i>et al.</i> (in press)
13	<i>Euderomphale bemisiae</i> Viggiani, 1977	Ghahari <i>et al.</i> , 2006
14	<i>Euderomphale chelidonii</i> Erdős, 1966	Ghahari <i>et al.</i> , 2006
15	<i>Neochrysocharis aratus</i> (Walker, 1838)	OILB, 1971
16	<i>Neochrysocharis formosus</i> (Westwood, 1833)	OILB, 1971; Hesami <i>et al.</i> , 2006; Ebrahimi <i>et al.</i> , 2009
17	<i>Neochrysocharis longiventris</i> (Askew, 1979)	Amiri <i>et al.</i> , 2009
18	<i>Pediobius cassidae</i> Erdős, 1951	Yefremova <i>et al.</i> , 2007
19	<i>Pediobius crassicornis</i> (Thomson, 1878)	Yefremova <i>et al.</i> , 2007; Ebrahimi <i>et al.</i> , 2009
20	<i>Pediobius illustris</i> (Waterston, 1915)	Askew & Bouček, 1968
21	<i>Pediobius italicus</i> Bouček, 1968	Yefremova <i>et al.</i> , 2007; Ebrahimi <i>et al.</i> , 2009

This is a new record for the fauna of Iran.

Genus *Pnigalio* Schrank, 1802

***Pnigalio nemati* (Westwood, 1838)**

Synonyms. *Eulophus nemati* Westwood, 1838, *Eulophus tischbeinii* Ratzeburg, 1848, *Pnigalio nemati* (Westwood, 1838), *Pnigalio tischbeinii* (Ratzeburg, 1848)

Material examined. 2♂, Shiraz, Akbar abad ring way (29° 40' N, 52° 33' E, 1730 m), 4 May 2006, sweeping in terebinth pistachio.

Biology. Parasitoid of Coleoptera and Hymenoptera.

Distribution. Europe, Canada.

***Pnigalio pectinicornis* (Linnaeus, 1758)**

Synonyms. *Chalcis pectinicornis* (Linnaeus, 1758), *Elachestus fusciventris* Nees, 1834, *Entedon pectinicornis* (Linnaeus, 1758), *Eulophus coecilius* Walker, 1839, *Eulophus fuscicornis* Förster, 1841, *Eulophus pectinicornis pilicornis* (Ratzeburg, 1844), *Haltichella pectinicornis* (Linnaeus, 1758), *Pnigalio coecilius* (Walker, 1839), *Pnigalio lucumo* (Walker, 1839)

Material examined. 2♀, Sepidan, Ski piste (30° 58' N, 51° 58' E, 2800 m), sweeping in pasture plants.

Biology. Primary parasitoid of Coleoptera, Diptera, Lepidoptera and Hymenoptera.

Distribution. Worldwide.

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

Synonyms. *Eulophus flavipes* Erds, 1954, *Eulophus meriones* Walker, 1839, *Eulophus nigroaeneus* Erds, 1954, *Eulophus prothenor* Walker, 1839, *Eulophus punctiscuta* Thomson, 1878, *Pnigalio nigroaeneus* (Erds, 1954)

Material examined. 2♂, Ghalat (29° 48' N, 52° 19' E, 2090 m), 11 July 2006, Malaise trap, 1♀ 2♂, Jahrom (28° 31' N, 53° 34' E, 1280 m), reared from citrus leaves infested with *Phyllocnistis citrella* Stainton (Lepidoptera: Gracillariidae).

Biology. Primary parasitoid of Coleoptera, Diptera, Lepidoptera and Hymenoptera and Secondary parasitoid of some Eulophidae.

Distribution. Europe, Middle East, Pakistan, China, Korea.

Genus *Zagrammosoma* Ashmead, 1904

***Zagrammosoma talitzkii* (Bouček, 1961)**

Synonyms. *Cirrospilus* (*Zagrammosoma*) *talitzkii* Bouček, 1961, *Cirrospilus talitzkii* Bouček, 1961

Material examined. 1♀, Shiraz, Dokuhak (29° 79' N, 52° 43' E, 1780 m), 11 september 2007, sweeping in apple orchard.

Biology. Parasitoid of dipterous and lepidopterous leafminers.

Distribution. Some European countries.

Disussion

Among the 14 species recorded in this paper, four species are new records for Iran including *Diglyphus puztensis*, *Elasmus nudus*, *Hemiptarsenus unguicellus*, *Hyssopus nigritulus*. Also records of ten previously recorded species of Eulophidae are confirmed. The subfamily Entiinae (formerly Euderinae, see

Genus *Hemiptarsenus* Westwood, 1833***Hemiptarsenus unguicellus* (Zetterstedt, 1838)**

Synonyms. *Entedon unguicellus* Zetterstedt, 1838; *Eulophus antilope* Förster, 1841; *Eulophus cinctipes* Stephens, 1846; *Eulophus divisus* Walker, 1872; *Eulophus janthea* Dalla Torre, 1898; *Eulophus laogonus* Walker, 1839; *Eulophus myodes* Walker, 1839; *Eulophus nonus* Walker, 1839; *Eulophus nycteus* Walker, 1839; *Eulophus opicornis* Förster, 1841; *Elachestus pellucens* Förster, 1841; *Eulophus piscus* Walker, 1839; *Eulophus sexradiatus* Förster, 1841; *Eulophus villius* Walker, 1839; *Hemiptarsenus antilope* (Förster, 1841)

Material examined. 2♀ 1♂, Shiraz, Kaftarak (29° 38' N, 52° 40' E, 1640 m), 23 April 2006, sweeping in alfalfa field.

Biology. Primary parasitoid of Coleoptera (Curculionidae and Scolytidae), Diptera (Agromyzidae and Ephydriidae), Lepidoptera (Elachistidae, Noctuidae, Pyralidae and Yponomeutidae).

Distribution. North hemisphere.

This is a new record from Iranian fauna.

***Hemiptarsenus waterhousii* Westwood, 1833**

Synonyms. *Eulophus waterhousii* (Westwood, 1833); *Hemiptarsenus arenarius* Erdős, 1951

Material examined. 1♀, Ghalat (29° 48' N, 52° 19' E, 2090 m), 11 July 2006, Malaise trap.

Biology. Primary parasitoid of Diptera (Agromyzidae) and Lepidoptera (Bucullatricidae, Gracillariidae, Momphidae, Noctuidae).

Distribution. Europe, Yemen.

This is a new record for the fauna of Iran.

***Hemiptarsenus zilahisebessi* Erdős, 1951**

Synonym. *Hemiptarsenus Zilahi-Sebessi* Erdős, 1951

Material examined. 1♀, Maharloo (29° 27' N, 52° 44' E, 1470 m), 14 October 2006, sweeping in alfalfa field, 1♀ 1♂, Shiraz, Kaftarak (29° 38' N, 52° 40' E, 1640 m), 17 March 2007, sweeping in parsley field, 1♀, Maharloo (29° 27' N, 52° 44' E, 1470 m), 15 October 2007, sweeping in corn field.

Biology. Parasitoid of Agromyzidae (Diptera), Nepticulidae (Lepidoptera) and Curculionidae (Coleoptera).

Distribution. Palearctic.

Genus *Hyssopus* Girault, 1916***Hyssopus nigrutilus* (Zetterstedt, 1838)**

Synonyms. *Cirrospilus aphaca* Walker, 1839, *Elachertus nigrutilus* (Zetterstedt, 1838), *Elachistus nigrutilus* (Zetterstedt, 1838), *Entedon nigrutilus* Zetterstedt, 1838, *Eulophus aphaca* (Walker, 1839)

Material examined. 2♀, Sepidan, Homaijan (30° 13' N, 52° 04' E, 2000 m), 18 October 2006, sweeping in maize field; 1♀, Dashte Arjan (29° 40' N, 51° 59' E, 1850 m), 21 October 2006, sweeping in alfalfa field.

Biology. Primary parasitoid of Diptera (Tephritidae), Hymenoptera (Vespidae, Cynipidae), Lepidoptera (Gelechiidae, Momphidae, Sesiidae and Tortricidae).

Distribution. Europe, Turkmenistan, Japan, China and Korea.

Materials examined. 5♀, Shiraz, Besat Research Center (29° 31' N, 52° 36' E, 1450 m), 9-16 July 2006, ex. Larvae of *Calycomyza humeralis* (von Roser, 1840) (Diptera; Agromyzidae) on aster.

Biology. Solitary ectoparasitoid of lepidopterous and dipterous leafminers.

Distribution. Cosmopolitan

Genus *Diglyphus* Walker, 1844

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

Synonyms. *Cirrospilus isaea* Walker, 1838; *Asecodes isaea* (Walker, 1838); *Diglyphus bisannulatus* Forster, 1861; *Diglyphus clavicornis* Walker, 1872; *Diglyphus ornatus* Forster, 1861; *Diglyphus viridis* (Thomson, 1878); *Entedon gracilis* Goureau, 1851; *Solenotus viridis* Thomson, 1878; *Elachistus phytomyzae* Rondani, 1877

Material examined. 4♂ 1♀, Shiraz (29° 45' N, 52° 28' E, 1600-1700 m), 5-15 August 2006, ex larvae of *Liriomyza trifolii* Burgess (Diptera: Agromyzidae) on basil, 7♂ 4♀, Shiraz (29° 45' N, 52° 28' E, 1600-1700 m), 25-29 September 2007, ex *L. trifolii* on cucumber, 5♂ 1♀, Shiraz, Zafar abad (29° 24' N, 52° 35' E, 1400-1500 m), 1-4 October 2007, ex. Larvae of *L. trifolii* on gourd, 2♀, Dashte Arjan (29° 34' N, 51° 56' E, 2100 m), 21 October 2006, sweeping in alfalfa field.

Biology. Parasitoid of lepidopterous and dipterous leafminers.

Distribution. Cosmopolitan.

***Diglyphus crassinervis* Erdős, 1958**

Material examined. 2♀, Shiraz, Zafar abad (29° 24' N, 52° 35' E, 1400-1500 m), 26 June 2006, ex. Larvae of *L. trifolii* of cucumber, 2♀, Shiraz (29° 45' N, 52° 28' E, 1600-1700 m), 29 September 2007, ex. Larvae of *C. humeralis* on aster.

Biology. Parasitoid of agromyzid leafminers.

Distribution. Europe, Middle East, North of Africa.

***Diglyphus pusztensis* Erdős & Novicky, 1951**

Synonyms. *Ceraninus pusztensis* (Erdős & Novicky, 1951); *Cycloscapus pusztensis* Erdős & Novicky, 1951; *Diglyphus fulvipes* Erdős, 1961; *Diglyphus tibiscanus* Erdős, 1958.

Material examined. 2♀, Shiraz, Sadra road (29° 45' N, 52° 28' E, 1740 m), 21 April 2007, sweeping in wheat field.

Biology. Parasitoid of Agromyzidae.

Distribution. Palaearctic, Russia and Japan.

This is a new record for the fauna of Iran

Genus *Elasmus* Westwood, 1833

***Elasmus nudus* Nees, 1834**

Synonyms. *Aneure nuda* Nees, 1834; *Elasmus albipennis* Thomson, 1878.

Material examined. 2♂ 1♀, Shiraz, Ab-barik (29° 44' N, 52° 37' E, 1840 m), 20 June 2007, sweeping in licorice (*Glycyrrhiza glabra* L.).

Biology. Primary parasitoid of Lepidoptera (Choreutidae, Lymantriidae, Pyralidae, Tortricidae) and secondary parasitoid of Hymenoptera (Braconidae, Ichneumonidae).

Distribution. Europe.

The first recorded species of Eulophidae in Iran was *Tetrastichus epilachnae* (Girard) (Kiryukhin, 1948). Davatchi & Chodjai (1969) reported two other species. Modarres-Awal (1994) cited 17 valid species of Eulophidae in his list of agricultural pests and their natural enemies in Iran. Shojai (1998) listed 13 species that have been deposited in the Zoological Museum of the College of Agriculture, Tehran University. The eulophid wasps of Iran have received attention recently (e. g. Doğanlar, 1992; Dousti *et al.*, 2008; Ebrahimi *et al.*, 2009; Hesami *et al.*, 2005; Hesami *et al.*, 2006; Hesami *et al.*, 2007; Hesami *et al.*, 2010; Mahani *et al.*, 2003; Rezaei *et al.*, 2003; Talebi *et al.*, 2005; Talebi *et al.*, 2011; Yefremova *et al.*, 2007; Zahiri *et al.*, 2003). Hesami *et al.* (2010) previously were listed four species of Entedoninae and 11 species of Tetrastichinae from Fars province of Iran. Here we report some other species from subfamilies Entiinae (=Euderinae) and Eulophinae from Fars province of Iran. In addition, results of many studies were scattered in different publications and have never been summarized. So a checklist of 119 species of Eulophidae reported so far from Iran is provided. The present list was compiled to provide a reference for future studies on this family in Iran.

Materials and Methods

This paper is a result of twenty-two collection trips of first author to the different localities of Fars province during the years 2004-2007. The eulophid wasps were reared from hosts or captured by sweep net and Malaise trap. The specimens are deposited in the Zoological Institution of Russian Academy of Science, St. Petersburg (ZISP), and Department of Plant Protection, Islamic Azad University, Shiraz branch. The taxonomic arrangement of Bouček (1988) for subfamilies is followed in this paper except for Entiinae (Hansson & Straka 2009). The morphological terminology follows Graham (1987, 1991) and Gibson (1997). Synonyms, combinations and misspelling are according to Noyes (2010). The Checklist is based on a comprehensive review of literature.

Results

Species account

Subfamily Entiinae (=Euderinae)

Genus *Euderus* Haliday, 1844

Euderus agrili Bouček, 1963

Material examined: 8 ♂ 4♀, Sadra road, Campus of Islamic Azad University of Shiraz (29°45' N, 52°28' E, 1750 m), 2 May 2007, ex. Larvae of Buprestidae on almond.

Biology. Parasitoid of larvae of *Agilus* sp. (Coleoptera: Buprestidae).

Distribution. West Palaearctic.

Subfamily Eulophinae

Genus *Cirrospilus* Westwood, 1832

Cirrospilus variegatus (Masi, 1907)

Synonyms. *Atoposoma variegatum* Masi, 1907; *Zagrammosoma variegata* (Masi, 1907).

Contribution to the study of Eulophidae (Hymenoptera: Chalcidoidea) of Fars province of Iran: II- Subfamilies Entiinae and Eulophinae, with a preliminary checklist of Eulophidae species in Iran

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Abstract

The eulophid subfamilies Entiinae and Eulophinae collected in Fars province of Iran during 2004 to 2007 were studied. The subfamily Entiinae (=Euderinae) is recorded from Iran. One species of Entiinae and 13 species of Eulophinae are listed among them four species are recorded for the first time from Iran. Available biological data and geographical distribution of each species is mentioned briefly. A checklist of recorded species of Eulophidae from Iran (until 2011) is provided.

Key words: Eulophidae, Entiinae, Euderinae, Eulophinae, Iran, Fars, checklist.

Introduction

The Eulophidae represent the largest family within the parasitic Hymenoptera superfamily Chalcidoidea. Currently the family is represented by 4472 described species that are accommodated in 297 genera, although it has been estimated that there could be several times that number of actual species (Yefremova, 2002; Noyes, 2010).

Although the majority of species are parasitoids, the family also contains phytophagous and predator species. Parasitoids may be ectoparasitoids (Eulophinae and Entiinae) or endoparasitoids (Entedoninae and Tetrastichinae). Several species of Eulophidae are important in biocontrol programs throughout the world (Noyes, 2010).

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