

## New Records of Ichneumonidae (Hymenoptera) Species from Turkey

M. Faruk Gürbüz<sup>\*,1</sup> and M. Yaşar Aksoylar<sup>1</sup>

In this study, six Ichneumonidae species were recorded for the first time in Turkey: *Tromatobia ornata* (Gravenhorst, 1829) and *Strongylopsis abdominalis* Kasparyan, 1974 (Pimplinae); *Tryphon auricularis* Thomson, 1883 and *Thibetoides acerbus* Viktorov, 1964 (Tryphoninae); *Pion crassipes* Homgren, 1857 (Ctenopelmatinae); and *Temelucha tricolorata* (Sedivy, 1968) (Cremastinae). The faunistic and distributional data notes are given for each species.

KEY WORDS: Ichneumonidae; new record; distribution; Turkey.

Ichneumonidae is the largest family in the Hymenoptera and one of the largest in the Insecta, with at least 60,000 species (2). They are parasitoids of immature holometabolous insects such as Coleoptera, Diptera, Hymenoptera, Lepidoptera, Raphidioptera, Trichoptera and also other arthropods such as Chelicerata, adult Araneae, and Pseudoscorpionida eggs. However, symphytan and lepidopteran are the most common hosts.

The Ichneumonidae of Turkey has not been well studied, although because of the country's geographical position in the Western Palearctic region there is an interesting and specific diversity of species. Isparta is one of the important refugium regions of Turkey, having different topographic conditions and various kind of climates (3). Since the publication of Kolarov's catalog (4), several new records were added to this fauna: 11 species of Pimplinae, 8 of Tryphoninae, 4 of Ctenopelmatinae and 4 of the Cremastinae subfamily (1,8-11). All together 700 Ichneumonidae samples were collected from Isparta Province situated in the western part of Turkey, between April and September in 2001 and 2002. The specimens were collected from the grass-type plants by the sweeping-net method and deposited in the Department of Biology at Süleyman Demirel University, Isparta, Turkey.

### Subfamily: Pimplinae

***Tromatobia ornata* (Gravenhorst, 1829)** Material examined: 05.X.2002, Gönen (37° 55' N / 30° 15' E), 1100 m, 1♀, leg. M.F. Gürbüz. Parasitoid on *Latrodectes tredecimguttatus* Rossi (Theridiidae) and *Araneus umbraticus* Cl. (Araneidae). General distribution: Europe, Caucasus, Kazakhstan and Middle Asia (5).

***Strongylopsis abdominalis* Kasparyan, 1974** Material examined: 10.V.2002, Gölcük (37° 35' N / 30° 30' E), 1200 m, 1♂, leg. M.F. Gürbüz. General distribution: Bulgaria, Hungary, Romania, southern part of eastern Europe and the Chelyabinsk region of Russia (5).

### Subfamily: Tryphoninae

***Tryphon auricularis* Thomson, 1883** Material examined: 19.V.2001, Gedikli (37° 55' N / 31° 40' E), 1200 m, 1♂, leg. M.F. Gürbüz. General distribution: Europe, Kazakhstan, Central Asia and the Tomsk region of Russia.

***Thibetoides acerbus* Viktorov, 1964** Material examined: 31.V.2002, Keçiborlu (37° 55' N / 30° 28'

Received May 28, 2004; accepted Oct. 25, 2004; <http://www.phytoparasitica.org> posting March 4, 2005.

<sup>1</sup>Dept. of Biology, Science and Art Faculty, Süleyman Demirel University, 32260 Isparta, Turkey. \*Corresponding author [e-mail: mfg@fef.sdu.edu.tr].

E), 1100 m, 1♀, leg. M.F. Gürbüz. General distribution: Caucasus and the south-European part of Russia.

Subfamily: Ctenopelmatinae

***Pion crassipes* Holmgren, 1857** Material examined: 18.IV.2002, Kirazlidere (37° 47' N / 30° 39' E), 1200 m, 2♀♀, leg. M.F. Gürbüz. General distribution: Western Europe (7).

Subfamily: Cremastinae

***Temelucha tricolorata* (Sedivy, 1968)** Material examined: 29.VI.2002, Dere Mahallesi (37° 40' N / 30° 35' E), 1100 m, 1♂, leg. M.F. Gürbüz. General distribution: Afghanistan (6).

#### ACKNOWLEDGMENTS

We would like to thank Dr. Janko Kolarov (Plovdiv University, Bulgaria) for his valuable help. This work was supported by the Unit of Scientific Research Projects of Süleyman Demirel University (SDÜAF.0545).

#### REFERENCES

1. Coruh, S., Özbek, H. and Kolarov, J. (2002) New and rare taxa of Ichneumonidae (Hymenoptera) from Turkey. *J. Entomol. Res. Soc.* 4(1):1-4.
2. Goulet, H. (1993) Hymenoptera of the World: An Identification Guide to Families. Canada Communication Group-Publ., Ottawa, Canada. pp. 395-442.
3. Gruev, B. (2002) A Comparative Study on Alticinae (Coleoptera, Chrysomelidae) in the Balkan Peninsula and Asiatic Turkey. Causes of the Similarities and the Differences of the Fauna. *Trav. Sci. Univ. Plovdiv, Bulgaria* 38(6):49-79.
4. Kolarov, J. (1995) A catalogue of the Turkish Ichneumonidae (Hymenoptera). *Entomofauna* 16(7):137-188.
5. Kolarov, J. (1997) Hymenoptera, Ichneumonidae Part 1. Pimplinae, Xoridinae, Acaenitinae, Collyriinae. *Fauna Bulgarica*, 25. Editio Academica 'Prof. Marin Drinov & Pensoft', Sofia, Bulgaria (Bulgarian, with English summary).
6. Kolarov, J. (1997) A review of the Cremastinae of the Balkan peninsula, Turkey and Cyprus with zoogeographical notes. *Beitr. Entomol.* 47:169-199.
7. Kolarov, J. (1998) New and Rare Ichneumonidae (Hymenoptera) from Greece and Bulgaria. *Acta Zool. Bulg.* 50(1):65-70 (Bulgarian, with English summary).
8. Kolarov, J., Özbek, H. and Yildirim, E. (1999) New distributional data of the Turkish Ichneumonidae (Hymenoptera). I. Pimplinae and Tryphoninae. *J. Entomol. Soc. Res.* 1(2):9-15.
9. Kolarov, J., Yurtcan, M. and Beyarslan, A. (1997) New and rare Ichneumonidae (Hymenoptera) from Turkey. I. Pimplinae, Tryphoninae, Phygadeuontinae, Banchinae and Ctenopelmatinae. *Acta Entomol. Bulg.* 3(4):10-12.
10. Özbek, H., Pekel, S. and Kolarov, J. (2000) New distributional data of the Turkish Ichneumonidae (Hymenoptera). II. Ctenopelmatinae and Campopleginae. *J. Entomol. Soc. Res.* 2(1):17-24.
11. Yurtcan, M., Beyarslan, A. and Kolarov, J. (2002) The species of Tryphoninae (Hymenoptera: Ichneumonidae) in Turkish Thrace. *Turk. J. Zool.* 26:77-95.