

## New records of Cryptinae (Hymenoptera: Ichneumonidae) from Turkey with some hosts

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### Summary

Seven species of Cryptinae (Hymenoptera: Ichneumonidae) are recorded for the first time to the Turkish fauna. Of these, ***Gambrus opacus*** Szepligéti was reared from the pupa of ***Malacosoma neustria*** (L.) (Lepidoptera: Lasiocampidae), that of ***Meringopus cyanator*** (Gravenhorst) from the pupae of both ***M. neustria*** (L.) and ***Lymantria dispar*** L. (Lepidoptera: Lymantriidae).

**Key words:** Hymenoptera, Ichneumonidae, Cryptinae, fauna, Turkey

**Anahtar sözcükler:** Hymenoptera, Ichneumonidae, Cryptinae, fauna, Türkiye

### Introduction

The Ichneumonidae (Hymenoptera), is a widespread and extremely large family with an estimated 60 000 extant species in 35 genera worldwide (Townes, 1969). Gauld (2000) estimated, by extrapolating from recent collections that the total global species-richness of the family will be more than 100 000 species. The family is most species-rich in the temperate regions and the humid tropics; relatively more species in cool moist climates than in warm dry ones (Gauld, 1991). When the subfamilies are taking into account some are more species rich in the tropics than in cool temperate habitats (Gauld, 1987). The Cryptinae is the largest subfamily of Ichneumonidae with 379 genera. Of which, some have worldwide distributions. Most are idiobiont ectoparasitoids on pupae or prepupae of

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Alınış (Received): 02.05.2005

holometabola insects, species in some genera are endoparasitoids, and a few may be koinobionts (Wahl, 1993).

Kolarov (1995) listed 66 species in 40 genera of the subfamily Cryptinae determined in Turkey. Since then several authors (Beyarslan & Kolarov, 1994; Kolarov & Beyarslan, 1994; Kolarov et al., 1997 a; 1997 b; 2002) have made valuable contributions to Turkish Cryptinae fauna. In this paper seven species of Cryptinae are recorded for the first time from Turkey. With the above mentioned contributions and the present paper the complete numbers of species and genera of Cryptinae known from Turkey increased to 120 and 47 as respectively.

## Material and Methods

The insect samples for this study were collected by sweeping flowering plants with an insect net and some specimens were reared from the hosts in cages in the laboratory. In the distribution of the species were taken from Yu & Horstmann (1997). All the material is deposited in the Entomology Museum, Erzurum, Turkey (EMET).

## Results and Discussion

***Agrothereutes fumipennis*** (Gravenhorst, 1829)

**Material examined: Erzurum:** Pasinler, Çalıyazı, 2400 m, 11.V.1997, ♂.

**Distribution:** Palaearctic.

***Hoplocryptus fugitivus*** (Gravenhorst, 1829)

**Material examined: Erzurum:** Güzelyayla, 1900 m, 29.VII.1992, ♀; İlica, Sorkumlu, 1850 m, 30.VII.1998, ♀.

**Distribution:** Palaearctic.

***Cryptus spiralis*** (Geoffroy, 1785)

**Material examined: Bayburt:** Kop Mt., 2200 m, 13.VII.1997, ♂.  
**Erzurum:** University field, 1850 m, 8.IX.1980, ♂, 28.VI.1996, ♂, 9.VII.1996, ♂, 23.VII.1998; Palandöken Mt., 2400 m, 1.VII.1996, 2♂♂, 23.VII.1996, ♀, ♂, 6.VIII.1996, 4♀♀, 2♂♂; Güngörmez, 2500 m, 28.VII.1996, ♂; Köşk, 1850 m, 20.VI.1996, ♀; Horasan, 1650 m, 15.VI.1973, ♀; Olur, Süngübayır, 1800 m, 24.VI.1996, ♀; Pasinler, 1700 m, 12.VI.1996, ♀; Şenkaya, Turnalı, 1750 m, 25.VII.1996, ♂, 20.VI.1997, ♂. **Kars:** Sankamış, Kalebaş, 1900 m, 25.VIII.1997, ♀.

**Distribution:** Palaearctic.

***Gambrus opacus*** Szepliget, 1916

**Material examined: Erzurum:** Palandöken Mt., 2400 m, 1.VII.1996, 2♀♀; Oltu, Sütkans, 1550 m, 25.VI.1996, ♀; University field, 1850 m, 15.VI.2000, ♀.

The last specimen was reared from the pupa of *Malacosoma neustria* (L.) (Lepidoptera: Lasiocampidae) collected from the campus of Atatürk University.

**Distribution:** Palaearctic.

***Glyphicnemis profligator*** (Fabricius, 1775)

**Material examined: Erzurum:** University field, 1850 m, 22.VII.1999, ♀; Ilıca, Atlıkonak, 2000 m, 11.VI.2000, ♂, 2 ♀♀.

**Distribution:** Palaearctic.

***Meringopus cyanator*** (Gravenhorst, 1829)

**Material examined: Erzurum:** University field, 1850 m, 10.VI.2000, 2♀♀, 17.VII.2003, ♀; Ilıca, Atlıkonak, 2000 m, 29.VI.2000, ♀, 11.VI.2000, ♀. First two specimens were reared from the pupae of *Malacosoma neustria*, second specimen from *Lymantria dispar* L. (Lepidoptera: Lymantriidae). Both of these species are polyphagous but they feed on mainly on apple. However, especially, in eastern Anatolia, they also feed on other orchards and bushes.

**Distribution:** Palaearctic.

***Meringopus nigerrimus*** (Fonscolombe, 1850)

**Material examined: Erzurum:** Oltu, between Tutmaç and Başaklı, 1900 m, 1.VII.2000, ♀.

**Distribution:** Palaearctic.

It is remarkable to point out that although all these species have Palaearctic distributions, *M. nigerrimus* is present in North America too and they are recorded for the first time from Turkey.

## Özet

### Türkiye Cryptinae (Hymenoptera: Ichneumonidae) altfamilyasından yeni kayıtlar ve bazı konukçular

Bu çalışmada, Cryptinae altfamilyasından Türkiye için yeni yedi tür bildirilmiştir. Bu türlerden *Gambrus opacus* Szepligéti, *Malacosoma neustria* (L.) (Lepidoptera: Lasiocampidae)'dan, *Meringopus cyanator* (Gravenhorst) ise hem *M. neustria* ve hem de *Lymantria dispar* L. (Lepidoptera: Lymantriidae) pupalarından elde edilmiştir.

## Acknowledgement

We express our gratitude to Dr. Janko Kolarov for identifying and checking the ichneumonids.

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