

Biyolojik not (Biological note)

New record of *Pachyneuron grande* Thomson, 1878 (Hymenoptera: Pteromalidae: Pteromalinae) from Turkey

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Summary

The larvae and pupae of syrphids (Diptera) were collected from ornamental plants in parks and road side plantations in order to determine the parasitoids of syrphids during from may to july 2003, in Ankara. Consequently, *Pachyneuron grande* Thomson, 1878 (Hymenoptera: Pteromalidae: Pteromalinae) was recorded as a new insect species in Turkey.

Key words: Pteromalidae, Syrphidae, *Pachyneuron grande*, new record

Anahtar kelimeler: Pteromalidae, Syrphidae, *Pachyneuron grande*, yeni kayıt

Introduction

Pachyneuron spp. (Hymenoptera: Pteromalidae: Pteromalinae) are generally hyperparasitoid species. It is known that more than 50 species to belong this genus in the world (Anonymous, 2010). Till now 9 *Pachyneuron* species are found in Turkey (Öncüer, 1991) namely; *P. ahlense* Mani & Saraswat, 1974, *P. aphidis* (Bouche, 1934), *P. muscarum* (Linneaus, 1958), *P. erzurumicum* Doganlar, 1986, *P. formosum* Walker, 1833, *P. gibbiscuta* Thomson, 1878, *P. groenlandicum* (Holmgren, 1872), *P. leucopiscida* Mani, 1939 and *P. nelsoni* Girault, 1928. It is known that these species have alot of hosts from different orders and families (Öncüer, 1991; Anonymous, 2010; Muştu et al., 2010).

Material and Methods

These studies were conducted in Ankara between May and July, 2003. Syrphid pupae were collected from parks, gardens and road side plantations, and put in petri dishes for parasitoids emergence under the conditions of 28±1 °C, 65±10% RH and a photoperiod of 16L:8D h. in laboratory. Emerging parasitoids were put into Eppendorph tube within 70% of alcohol for its idenfication. Identification of parasitoids are made by Dr. George Japoshvili (Entomology and Biocontrol Research Centre, Ilia State University, Georgia).

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Results

At the end of the study *Pachyneuron grande* Thomson was determined and this species a new record for Turkish parasitoid fauna. The parasitoids was emerged from Syrphid pupa which collected on *Prunus domestica* Linneaus on June 13, 2003, in Yenimahalle/Ankara. Five females and three males of *P. grande* were obtained from this pupa which could not be identified. Graham (1969) and Anonymous (2010), recorded that *Episyrphus balteatus* De Geer, *Syphus arcuatus* Fallen, *S. lapponicus* Zetterstedt and *S. luniger* Meigen (Diptera: Syrphidae), and *Leucopis silesiaca* Egger (Diptera: Chamaemyiidae) are hosts of *P. grande*.

Prior to this study, *P. grande* was recorded from Austria, Belgium, Czechoslovakia (Czech Republic and Slovakia), France, Germany, Hungary, Kazakhstan, Kirgizia, Moldova, Netherlands, Romania, Spain, Sweden, Switzerland, Yugoslavia (Bosnia Hercegovina and Serbia) and Iran (Sadeghi & Ebrahimi, 2001; Anonymous, 2010).

Özet

Türkiye için yeni kayıt *Pachyneuron grande* Thomson, 1878 (Hymenoptera: Pteromalidae)

Ankara'da syrphid parazitoitlerini belirlemek amacıyla, park, bahçe ve yol kenarlarında bulunan bitkiler üzerinden syrphid larva ve pupaları 2003 yılı mayıs-temmuz aylarında toplanmıştır. Çalışma sonucunda, Türkiye için yeni kayıt niteliğinde olan *Pachyneuron grande* Thomson, 1878 (Hymenoptera: Pteromalidae) elde edilmiştir.

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