Two new records of the subfamily Cleonyminae (Hymenoptera: Pteromalidae) from Iran

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ABSTRACT. Two species of Cleonyminae (Hymenoptera: Chalcidoidea, Pteromalidae), Chalcedectus sinaiticus (Masi, 1936) and Notanisus vanharteni Gibson, 2015 were found for the first time in Iran. These species were collected from south of Iran. Notanisus vanharteni was reared on Dorema ammoniacum (D. Don.) and C. sinaiticus was collected by a Malaise trap.

Key words: Hymenoptera, Chalcidoidea, Pteromalidae, Chalcedectus, Notanisus.

Introduction

The subfamily Cleonyminae (Hymenoptera: Chalcidoidea, Pteromalidae) has an almost worldwide distribution, being found in nearly all regions. It contains over 260 nominal species within 39 genera and six tribes that most species are parasitoids of woodboring beetles or other insects nesting or occurring in wood or under bark (Gibson 2003).

Until now, five species belonging to five genera Cleonyminae were reported from Iran: Heydenia pretiosa Förster, 1856 (Davatchi and Chodjai 1968), Chalcedectus balachowskyi Steffan, 1968 (Steffan, 1968, Sharifi and Javadi 1971, Gibson 2003), Callocleonymus pulcher Masi, 1940 (Lotfalizadeh and Khalghani 2008), Oodera monstrum Nikol’skaya, 1952 (Nazemi-Rafie et al. 2011) and Cleonymus laticornis Walker, 1837 (Damavandian and Feli Kohikheili 2015). These are reported as parasitoid of xylophagous beetles of the families Scolytidae, Cerambycidae and Buprestidae (Lotfalizadeh and Khalghani 2008). The purpose of the present study was report of two cleonymins that were collected from south of Iran.

Material and methods

The material was collected during 2011-2013 from Fars and Hormozgan provinces in the south of Iran, and they are held in

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the Department of Plant Protection, East-Azarbaijan Research & Education Center for Agriculture & Natural Resources, Tabriz, Iran. The individuals were collected using an entomological net and rearing on host plant. Identification was made using keys provided by Mitroiu and Andreiscu (2008) and Gibson (2015).

Results

Two Cleonyminae species of the genera Chalcedectus and Notanisus were identified.

Genus Chalcedectus Walker, 1852

Chalcedectus sinaiticus (Masi, 1936)


Comments: Only one species of Chalcedectus has been recorded previously from Iran. Chalcedectus balachowskyi Steffan known as parasitoid of Osphranteria coerulescens Redtenbacher (Col.: Cerambycidae) on Rosa sp. (Steffan, 1968). Steffan (1968) discussed morphological difference of C. sinaiticus and C. balachowskyi but both species have been reported from Fars province in the south of Iran.

Diagnosis: The most important characters of this species are as follow: enlarged hind femur with ventral comb of teeth, complete notauli, antennal clava of female with lateral preclaval process, pronotum short medially, scutellum carinate posteriorly, propodeum with patches of dense silvery hairs.

Distribution: This species known from north of Africa and west of Middle East on Acacia sp. (Fabaceae) (Noyes, 2016) and Iran (Hormozgan province) (new record for Iran).

Genus Notanisus Walker, 1837

Notanisus vanharteni Gibson, 2015


Diagnosis: This species recently described from United Arab Emirates and differs from that of N. yemenensis Gibson, 2015 in following characters: head in frontal view and mesosoma extensively reddish-coppery, head sometimes with face or at least frontovertex in dorsal view extensively reddish-violaceous, metacoxa darker brown dorsally but without metallic luster, gastral petiole dark, fore wing with broad infuscate region behind discal venation; antennal clava with slender, setose, terminal spiniform process; pronotum posterolaterally with large, triangular, smooth and shiny differentiated region bearing several conspicuous setae. scutellum punctulate-reticulate anteromesally but with larger reticulations laterally and posteriorly, propodeum with medial sculptured region entirely rugose to rugulose-reticulate along length of median carina; metacoxa dorsobasally with patch of several setae (see illustrations of Gibson, 2015).

It characterized by reduced stigmal and postmarginal veins, which were treated as the oulmesiensis species group by Gibson (2015).

Distribution: This species known only from Arabian Peninsula (United Arab Emirates) and our collection from Iran is the second record (new record for Iran).

Discussion

This research shows the genera and species of the subfamily Cleonyminae in Iran reaches 6 and 7, respectively (Table 1).

Acknowledgments

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Table 1. List of the subfamily Cleonyminae of Iran and their host and distribution.

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References


دو گزارش جدید از زنبورهای زیرخانواده Cleonyminae از (Hymenoptera: Pteromalidae) در ایران

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واژگان کلیدی: بالغ‌نشینان، بالاخانواده Chalcidoidea، خانواده Pteromalidae، Chalcedectus sinaiticus، Notanisus vanharteni