

<https://doi.org/10.25221/fee.498.2>

<https://elibrary.ru/jertgx>

<https://zoobank.org/References/CF6549AE-111C-462C-9146-9D2C201C9386>

**FIVE NEW RECORDS OF PTEROMALIDAE (HYMENOPTERA:
CHALCIDOIDEA) FROM IRAN**

H. Ghahari^{1*)}, K. A. Dzhanokmen²⁾, M. Doğanlar³⁾

1) Department of Plant Protection, Yadegar-e-Imam Khomeini (RAH) Shahre Rey Branch, Islamic Azad University, Tehran, Iran. *Corresponding author, E-mail: hghahari@yahoo.com

2) Institute of Zoology, Ministry of Education and Science of the Republic of Kazakhstan, Almaty, Kazakhstan. E-mail: InstZoo@nursat.kz

3) Mustafa Kemal University, Agriculture Faculty, Plant Protection Department, 31034 Antakya, Hatay, Turkey. E-mail: doganlar@mku.edu.tr

Summary. Five species of Pteromalidae (Hymenoptera: Chalcidoidea) are newly recorded from Iran: *Cea pulicaris* Walker, 1837, *Halticoptera dimidiata* (Foerster, 1841), *Homoporus arestor* (Walker, 1848), *Trichomalus fulvipes* (Walker, 1836), and *Trichomalus helvipes* (Walker, 1834).

Key words: parasitoids, distribution, fauna, northern Iran, Guilan and Mazandaran provinces.

Х. Гахари, К. А. Джанокмен, М. Доганлар. Указание пяти новых для Ирана видов семейства Pteromalidae (Hymenoptera: Chalcidoidea) // Дальневосточный энтомолог. 2024. N 498. С. 13-15.

Резюме. Впервые из Ирана приводятся 5 видов семейства Pteromalidae (Hymenoptera: Chalcidoidea): *Cea pulicaris* Walker, 1837, *Halticoptera dimidiata* (Foerster, 1841), *Homoporus arestor* (Walker, 1848), *Trichomalus fulvipes* (Walker, 1836) и *Trichomalus helvipes* (Walker, 1834).

INTRODUCTION

The Pteromalidae with 4257 extant and 26 fossil species in 648 genera (Gibson *et al.*, 2021) is a diverse family of Hymenoptera. These parasitoids are distributed in all biogeographical regions of the world and shows great diversity in morphology and biology (Graham, 1969; Bouček & Heydon, 1997).

The most comprehensive catalogues on Iranian Pteromalidae were published by Ghahari *et al.* (2015) who listed 227 species within 114 genera and 16 subfamilies, Gibson *et al.* (2021) with 276 species and subspecies belonging to 120 genera and 16 subfamilies, and recently, Abd-Rabou *et al.* (2022) represented 295 valid species in 124 genera.

The aim of this paper is to introducing of five species of Pteromalidae for the fauna of Iran as new country records.

MATERIAL AND METHODS

The specimens were collected by Malaise traps in Guilan and Mazandaran provinces (northern Iran), were identified by the authors and preserved in their collections. Classification and nomenclature of Pteromalidae suggested by Noyes (2020) have been followed.

NEW RECORDS

During faunistic surveys in two provinces of northern Iran (Guilan and Mazandaran), five species of Pteromalidae were collected and identified as the new country records. Regarding to the new published contributions after Gibson *et al.* (2021) (see Abd-Rabou *et al.*, 2022) and five new records of this paper, the total number of Iranian Pteromalidae reaches to 300 valid species in 124 genera. The list of species is given below with distributional data.

Genus *Cea* Walker, 1837

Cea pulicaris Walker, 1837

MATERIAL EXAMINED. **Iran:** Mazandaran province, Chalus (Faraj-Abad), August 2012, 2♀, 1♂.

DISTRIBUTION. Algeria, Czech Republic, Germany, Ireland, Italy, Moldova, Netherlands, Romania, Russia, Spain, Sweden, Turkey, United Kingdom (Staverløkk & Mitroiu, 2020).

Genus *Halticoptera* Spinola, 1811

Halticoptera dimidiata (Foerster, 1841)

MATERIAL EXAMINED. **Iran:** Mazandaran province, Ramsar, near Dalkhani Forest, September 2011, 1♀.

DISTRIBUTION. Austria, Belgium, Bulgaria, Czech Republic, Germany, Hungary, Ireland (north and south), Italy, Kazakhstan, Montenegro, Netherlands, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Turkey, United Kingdom (Noyes, 2020).

Genus *Homoporus* Thomson, 1878

Homoporus arestor (Walker, 1848)

MATERIAL EXAMINED. **Iran:** Mazandaran province, Tonekabon (Jangal-e 2000), August 2014, 1♂.

DISTRIBUTION. Bulgaria, China, Czech Republic, France, Germany, Hungary, Kazakhstan, Kirgizia, Moldova, Slovakia, Spain, Sweden, Turkey, United Kingdom (Noyes, 2020).

Genus *Trichomalus* Thomson, 1878

Trichomalus fulvipes (Walker, 1836)

MATERIAL EXAMINED. **Iran:** Guilan province, Astara, Asgar-Abad, September 2015, 1♀.

DISTRIBUTION. Belgium, Bulgaria, Czech Republic, Germany, Hungary, Israel, Netherlands, Romania, Slovakia, Spain, Sweden, Switzerland, Turkey, United Kingdom (Noyes, 2020).

***Trichomalus helvipes* (Walker, 1834)**

MATERIAL EXAMINED. **Iran:** Guilan province, Talesh, Khalifeh Sara, August 2015, 1♀, 1♂.

DISTRIBUTION. Belgium, Bulgaria, Czech Republic, France, Germany, Hungary, Netherlands, Norway, Romania, Spain, Sweden, Switzerland, Turkey, United Kingdom (Noyes, 2020).

ACKNOWLEDGEMENTS

This research was supported by Islamic Azad University (Yadegar-e-Imam Khomeini (RAH) Shahre Rey Branch) and Mustafa Kemal University.

REFERENCES

- Abd-Rabou, S., Samin, N. & Sakenin, H. 2022. A faunistic survey of Pteromalidae (Hymenoptera: Chalcidoidea) in Golestan Province, Northern Iran, with an updated checklist of Iran. *Egyptian Journal of Plant Protection Research Institute*, 5(3): 223–230.
- Bouček, Z. & Heydon, S.L. 1997. Family Pteromalidae. P. 541–692. In: Gibson, G.A.P., Huber, J.T. & Wooley, J.B. (Eds). *Annotated keys to the genera of Nearctic Chalcidoidea (Hymenoptera)*. National Research Council Canada, NRC Research Press, Ottawa. 794 pp.
- Ghahari, H., Doğanlar, M., Sureshan, P.M. & Ostovan, H. 2015. An annotated catalogue of the Iranian Pteromalidae (Hymenoptera: Chalcidoidea). *Entomofauna (Supplement)*, 19: 1–101.
- Gibson, G.A.P., Dzhankmen, K.A., van Noort, S., Ghahari, H. & Doğanlar, M. 2021. Family Pteromalidae Dalman, 1820. P. 295–353. In: Ghahari, H., Gibson, G.A.P. & Viggiani, G. (Eds). *Chalcidoidea of Iran (Insecta: Hymenoptera)*. CABI, Wallingford. 432 pp.
- Graham, M.W.R. de V. 1969. The Pteromalidae of North-Western Europe (Hymenoptera: Chalcidoidea). *Bulletin of British Museum of Natural History Entomology, Supplement*, 16: 1–908.
- Noyes, J.S. 2020. *Universal Chalcidoidea Database*. Natural History Museum, London. Available from <http://www.nhm.ac.uk/our-science/data/chalcidoids/> (accessed 01 September 2021)
- Staverløkk, A. & Mitroiu, M.D. 2020. First record of *Spalangiopecta* Masi, 1922 (Hymenoptera, Pteromalidae, Ceinae) in Norway. *Norwegian Journal of Entomology*, 67: 39–43.