

Parasitoids of the almond seed wasp, *Eurytoma amygdali* Enderlein in Iran

Parasitoids of the almond seed wasp, *Eurytoma amygdali* Enderlein (Hym.: Eurytomidae) in Iran; Dr. H. Lotfalizadeh¹, Dr. A. Avand-Faghih², Eng. S. Roshandel³ and Eng. A. Jafari-Nadushan⁴. Dept. of Plant Protection, Agricultural Research Center of Tabriz, Iran, hlotfalizadeh2001@yahoo.com¹; Dept. of Entomology, Iranian Research Institute of Plant Protection, P. O. Box 1454, Tehran 19395, Iran²; Dept. of Plant Protection Research, Agricultural Research Center of Chahar-Mahal & Bakhtiari, Iran³; Dept. of Plant Protection Research, Agricultural Research Center of Yazd, Iran⁴.

The almond seed wasp, *Eurytoma amygdali* Enderlein, 1907 (Hym.: Chalcidoidea, Eurytomidae) is one of important pests of almond trees in the Palearctic region (especially Mediterranean area). The first parasitoid of this economic pest was recorded in 1978 from Armenia and the second one was recently collected in Turkey.

During a biological study (2004-2006) on seed wasps of stone fruit trees in Iran, apart from *E. amygdali* some chalcid wasps were reared from collected fruits of *Amygdalus* spp. (Rosaceae) from different parts of Iran. Within this collection two parasitoids species belonging to Pteromalidae and Eulophidae families (Hym.: Chalcidoidea) were determined. The identification was made by using Bouček & Rasplus, 1991. Institut National de la Recherche Agronomique, Paris, p. 95; Graham, 1969. Bulletin of the British Museum (Natural History) (Entomology) Supplement 16: p. 430 and Doğanlar & Bolu, 2004. Zoology in the Middle East, 32: pp.76-78. for pteromalid species and Graham, 1987. Bulletin of the British Museum (Natural History) (Entomology), 55(1): pp. 270-272 for eulophid. The species were identified as *Gugolzia bademia* Doğanlar and *Aprostocetus bucculentus* (Kostjukov). It is a new record of these species from Iran.

***Gugolzia bademia* Doğanlar, 2004:**

Material examined: Chahar-Mahal & Bakhtiari, Shahr-e Kord, III. 2004, (S. Roshandel), 4♀ & 1♂.

Remarks: *G. bademia* belongs to Pteromalidae, Pteromalinae. It was described recently from Turkey and based on Doğanlar & Bolu, 2004. Zoology in the Middle East, 32: p. 76, it is the second record of occurrence of this species.

***Aprostocetus bucculentus* (Kostjukov, 1978):**

Material examined: Chahar-Mahal & Bakhtiari, Shahr-e-Kord, iii. 2004, (S. Roshandel), 5♀. Qazvin, 2001, (B. Gharali), 4♀. Yazd, Mehriz, iii. 2004, (A. Jafari-

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Nadushan), 4♀ & 3♂.

Remarks: This parasitoid belongs to Eulophidae and Tetrastichinae (Graham, 1987. Bulletin of the British Museum (Natural History) (Entomology), 55(1): pp. 270-272). Mentioned it in the subgenus, *Aprostocetus*. It is distributed in the Middle East including Armenia, Turkey and Palestine.