

A new species of *Gugolzia* Delucchi & Steffan (Hym., Pteromalidae) from Turkey, a parasitoid of *Eurytoma amygdali* Enderlein (Hym., Eurytomidae)

by Miktat Doğanlar and Halil Bolu

Abstract. The genus *Gugolzia* Delucchi & Steffan, 1956 (Hymenoptera, Chalcidoidea, Pteromalidae) is recorded for the first time from Turkey with a new species, *G. bademia* Doğanlar, n.sp. from Sivrice, Elazığ province. The species is a parasitoid of *Eurytoma amygdali* Enderlein, 1907 (Hymenoptera, Eurytomidae), a serious pest of almonds, *Amygdalus* spp. (Rosaceae) in the Palaearctic. The new species is described and its diagnostic characters are illustrated.

Kurzfassung. Die Gattung *Gugolzia* Delucchi u. Steffan, 1956 (Hymenoptera, Chalcidoidea, Pteromalidae) wird für die Türkei erstmals nachgewiesen mit einer neuen Art, *G. bademia* Doganlar, n.sp. aus Sivrice, Provinz Elazığ. Die Art ist ein Parasitoid von *Eurytoma amygdali* Enderlein, 1907 (Hymenoptera, Eurytomidae), eines bedeutenden Schädlings von Mandeln, *Amygdalus* spp. (Rosaceae), in der Palaäktis. Die neue Art wird beschrieben und die diagnostischen Merkmale werden aufgeführt.

Key words. *Gugolzia bademia*, n.sp., parasitoid, almond, pest, *Eurytoma amygdali*, Turkey.

The genus *Gugolzia* (Hymenoptera, Chalcidoidea, Pteromalidae) was described by DELUCCHI & STEFFAN (1956) with its type species *G. harmolitae* Delucchi & Steffan, 1956, as a solitary ectophagous parasite of *Harmolita* (= *Tetramesa*) *romana* (Walker, 1873) which feeds in shoots of *Arundo donax* L. (Graminae) in France. Since its description, several authors have recorded *Gugolzia* as a monotypic genus (GRAHAM 1969, DZHANOKMEN 1978, BOUČEK & RASPLUS 1991). BOUČEK & RASPLUS (1991) discussed the generic characteristics in their illustrated key to the Palaearctic genera of Pteromalidae (Hymenoptera), and illustrated both sexes.

Recently one of us (H. BOLU) reared some specimens of *Gugolzia* from fruits of almond, *Amygdalus communis* L. (Rosaceae), which were infested by *Eurytoma amygdali* Enderlein (Hymenoptera, Eurytomidae), and sent them to the senior author for identification. Study of the specimens collected from Elazığ province revealed the presence of an undescribed species of the genus *Gugolzia* from Turkey.

To determine infestation levels and to obtain parasitoids of *E. amygdali*, samples were taken by H. BOLU in Sivrice, Elazığ prov. (1280 m a.s.l., 38°28'N, 39°17'E) and Gezin, Sivrice, Elazığ prov. (1256 m a.s.l., 38°29'N, 39°20'E), both locations situated in eastern Anatolia. The fruits of almonds infested by *E. amygdali* were collected from trees, as the infested fruits shrivel and remain on the tree during the whole winter. Samples were taken from August until the end of October 2001–2003. The collected fruits were transferred to the laboratory and kept in polyethylene jars (25 cm deep and 8 cm in diameter), each jar containing 25 fruits. After rearing adults of the parasitoids and of *E. amygdali*, the specimens were killed and prepared for subsequent taxo-