



## A checklist of the Eurytomidae (Hymenoptera, Chalcidoidea) species of Turkey

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### Abstract

A checklist of 87 species in 9 genera belonging to 2 subfamilies (Eurytominae and Rileyinae) of Eurytomidae (Hymenoptera: Chalcidoidea) known from Turkey is presented. Host or collection information and distributional data in Turkey are also provided.

**Key words:** Eurytomid wasps, distribution, hosts

### Introduction

The Eurytomidae is a medium-sized family of the superfamily Chalcidoidea (Hymenoptera). Its members are distributed in all zoogeographical regions of the world. The family includes 1424 valid species belonging to 88 genera worldwide (Noyes 2011). They are characterized by a large, quadrate pronotum, many have 13 antennal segments, often have a strongly sculptured body and usually a laterally compressed metasoma, and are yellow to black but only very rarely metallic. Some species are phytophagous (feeding in stems, seeds or galls) whereas others are entomophagous (parasitoids of a wide range of hosts, e.g. Coleoptera, Diptera, Hymenoptera and Lepidoptera) or entomophytophagous. Several species attack spider (Araneae) (e.g. *Desantisca* spp.) or cicada (Hemiptera) eggs (e.g. *Macrorileya* spp.) (Gates 2001).

Turkey (Fig. 1) has a unique fauna connecting Asia minor and Asia to Europe and also to Africa. Additionally, it is a large country (about 780.500 km<sup>2</sup>) with different climatic zones and relatively rich plant diversity (about 12 000 species) (Avcı 2005). Therefore, it is not surprising that it has a rich eurytomid fauna as well. The eurytomid fauna of Turkey has been subjected to extensive surveying during the last few decades. These studies have been carried out by various researchers, including Bouček (1951, 1977), Nikol'skaya (1952), Doğanlar (1984, 1990), Doğanlar and Çam (1991, 2005), Çam (1994, 1998, 2003, 2004), Gençer (1994), Narendran *et al.* (1995), Zerova *et al.* (2003, 2004), Askew *et al.* (2006) and Lotfalizadeh *et al.* (2007). In spite of these studies the true eurytomid diversity of Turkey remains to be documented, in part because of the few specialists of Eurytomidae in Turkey and difficulties in identifying eurytomid species.

Noyes (2011) listed 32 species (marked by an asterisks in the text) of Eurytomidae for Turkey, but this is not a comprehensive list. In this paper, we list all known Turkish eurytomid species recorded in Turkey between 1941 and 2010 are listed. Host information, distributional data and synonyms (if any) of 87 eurytomid species in 9 genera belonging to 2 subfamilies (Eurytominae and Rileyinae) are provided. It is hoped that this list will be a useful reference to many Eurytomidae taxonomists and entomologists around the world.

### Material and methods

All available data from the literature were used to compile this review paper. The species identities listed in previous papers were not confirmed because voucher specimens were not examined. Synonyms, worldwide distributions and extralimital host information for the species are not included because these data are readily accessible in Noyes (2011). All references concerning Turkish eurytomids are summarized and synonyms, host information and