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Review of the genus *Zeugomutilla* Chen, 1957 (Hymenoptera, Mutillidae, Mutillini), with description of two new species

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Abstract

Eight species of *Zeugomutilla* Chen, 1957 are reviewed. *Zeugomutilla angkorensis* Williams, **sp. nov.** (Cambodia, Thailand, Vietnam) and *Z. pangi* Lelej, **sp. nov.** (China: Hainan) are described and illustrated. A new combination is proposed for *Z. spinulosa* (André, 1898), **comb. nov.** (from *Pristomutilla* Ashmead, 1903). *Zeugomutilla bainbriggei* (Turner, 1911) and *Z. horni* (André, 1907) are newly recorded from India (Tamil Nadu), *Z. pycnopyga* Chen, 1957 is newly recorded from Thailand, and *Z. saepes* (Chen, 1957) from Cambodia and Thailand. An updated diagnosis of the genus and key to males and females are given.

Key words: mutillid wasps, Mutillini, fauna, new species, key to species, Oriental Region

Introduction

In the tribe Mutillini, the genus *Zeugomutilla* Chen, 1957 together with the genera *Cephalotilla* Bischoff, 1920, *Ctenotilla* Bischoff, 1920, *Lehritilla* Lelej, 2005, *Pristomutilla* Ashmead, 1903, and *Strangulotilla* Nonveiller, 1979 form a separate group: males with weakly emarginate inner eye margin (resembling Myrmillinae); females with disc of propodeum pectinate posteriorly. Although females are unknown in *Lehritilla*, *Pristomutilla ianthis* Turner, 1911, which is distributed in dry zone of Sri Lanka and South India and has even been collected at the same place and time (0.8 km NE of Kokmotte Bungalow, Wilpattu National Park, 21–25.v. 1976, K. Krombein *et al.*) with the male of *Lehritilla lanka* Lelej, 2005 could be associated with *Lehritilla*. The species of these genera are distributed in Oriental or Afrotropical Regions, except *Ctenotilla caeca* (Radoszkowski, 1879), which occurs in the Palaearctic region (Nonveiller 1979, 1995; Lelej 2002, 2005). These genera were placed in Mutillini: Smicromyrmina (Brothers 1975) or Myrmillinae (*Pristomutilla*), Mutillinae: Peterseniini (*Zeugomutilla*), Mutillinae: Mutillini (*Cephalotilla*, *Ctenotilla*, *Strangulotilla*) (Lelej & Nemkov 1997) but currently all these genera are placed in the tribe Mutillini (Lelej 2005). Both sexes of these genera (except *Cephalotilla*) were keyed as a part of the tribe Mutillini (Lelej 2005). A review of eight species of *Zeugomutilla*, the description of two new species, and a key to males and females of this genus are given below.

Material and methods

This study is based on examination of 106 specimens (82♀ and 24♂). The following acronyms are used for the collections where type specimens and other materials are deposited: