



Additions to the knowledge of the Mutillidae (Hymenoptera) of Pakistan

ARKADY S. LELEJ¹, MISHKAT ULLAH² & KHALID MAHMOOD³

¹Institute of Biology and Soil Science, Far Eastern Branch of Russian Academy of Sciences, Vladivostok-22, 690022, Russia.
E-mail: lelej@ibss.dvo.ru

²Pakistan Museum of Natural History, Garden Avenue, Islamabad, 44000, Pakistan. E-mail: mishkatullah@gmail.com

³Pakistan Museum of Natural History, Garden Avenue, Islamabad, 44000, Pakistan. E-mail: dkmahmood@msn.com

Abstract

Four species in four genera are newly recorded from Pakistan. Three of these species are new and are described: *Smicromyrmilla margalla* Lelej and Ullah, **sp. nov.** (Pakistan), *Andreimyrmex pakistanensis* Lelej and Ullah, **sp. nov.** (Pakistan), and *Ephutomma himalayana* Lelej and Ullah, **sp. nov.** (Pakistan, Nepal). A new combination is proposed for *Storozhenkotilla semiviolacea* (André). Four genera are recorded for the first time from Pakistan: *Smicromyrmilla* Suárez, *Storozhenkotilla* Lelej, *Andreimyrmex* Lelej, and *Ephutomma* Ashmead. The latter is recorded for the first time from Nepal. *Storozhenkotilla semiviolacea* (André) is recorded for the first time from Pakistan.

Key words: Mutillidae, solitary wasps, velvet ants, Islamabad, Pakistan

Introduction

Pakistan is located in southern Asia between India on the East and Afghanistan and Iran on the West. Pakistan is the west edge of the Oriental region, and the fauna of this country has some transitional features between the Palaearctic and Oriental regions. The mutillid fauna of Pakistan is poorly known. Until now only 10 species of Mutillidae were known from this country (Lelej 2005). The mutillid fauna of smaller sized neighboring Afghanistan in the Palaearctic region includes about 40 species (Lelej & Kabakov 1980, Lelej 2002). We enumerated here four species in four genera. Some species of *Trogaspidia*, *Smicromyrmex*, *Physetopoda*, *Promecilla*, and *Ephucilla* were also recognized, but they are not included in this paper because their identification requires revision of the Oriental species of *Trogaspidia* and *Smicromyrmex* that were described by Hammer (1962) from India.

Materials and methods

Acronyms for collections from which specimens were borrowed or are deposited: IBSS — Institute of Biology and Soil Science, Vladivostok, Russia; PMNH — Pakistan Museum of Natural History, Islamabad, Pakistan; ZIN — Zoological Institute, St. Petersburg, Russia; ZMMU — Zoological Museum of Moscow University, Russia.

This paper is based mainly on material collected in Pakistan by H. Khurram and M. Fida with Malaise traps during 2005. This material comprises about 100 mutillid specimens [deposited in PMNH and IBSS]. A Malaise trap was placed in the garden of Pakistan Museum of Natural History which located in Margalla Hills National Park (33°41'171"N, 73°04'606", elevation 523 m) northwards of Islamabad. This site was surrounded