



Four new species of *Ioneuromyia* from China (Diptera: Keroplatidae)

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Abstract

Four new species of the genus *Ioneuromyia* Brunetti are described from China: *I. sinica* Xu, Cao et Evenhuis, n. sp.; *I. completa* Xu, Cao et Evenhuis, n. sp.; *I. singulus* Xu, Cao et Evenhuis, n. sp.; *I. wolongensis* Xu, Cao et Evenhuis, n. sp. Another species, *I. semirufa* (Meigen) is newly recorded from Zhejiang province in China. A key to Chinese species of *Ioneuromyia* is given.

Key words: Keroplatidae, *Ioneuromyia*, taxonomy, new species, China

Introduction

Ioneuromyia Brunetti, 1912 is a rather large group in the tribe Orfeliini of the Keroplatinae, represented by over 50 species found in the world (Evenhuis, 2006b). Most of the species are known from the Oriental and Neotropical Regions, only eight including the species dealt with here in the Palaeartic Region.

Until a recent date, only one species of the genus had been known to occur in Taiwan, namely *I. formosana* (Okada, 1938), described originally as a form of the Indian *I. annandalei* Brunetti, 1912. This is the first detailed report of the genus *Ioneuromyia* from China. *Ioneuromyia semirufa* (Meigen, 1818) is newly recorded from Zhejiang province. Four new species were discovered among the specimens collected in July 2006 from Sichuan province (Southwestern China) and are described here. *Ioneuromyia sinica* n. sp. is reported also from Zhejiang province. A key is given to these species to aid in their identification.

The genus is distinguished from other related genera by the following characters (Evenhuis, 2006a): laterotergite, mediotergite, and anepimeron bare; tibiae with setulae in regular rows throughout; costal vein not extending past R5; vein A1 almost reaching wing margin; and bases of forked veins with minute setulae (sometimes only seen under high magnification).

Material and methods

Specimens were collected by sweeping and Malaise traps and preserved in 80% alcohol. Holotypes and paratypes of new species in this study are deposited in the entomological collection of Zhejiang Forestry College, Lin'an, Zhejiang, China (ZJFC). Morphological terminology follows that of Sølvi *et al.* (2000).