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Ten new species of the genus *Phortica* from the Afrotropical and Oriental regions (Diptera: Drosophilidae)

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Abstract

Ten new species of the genus *Phortica* are described from the Afrotropical and Oriental regions: *P. (Allophortica) chingolaensis* Chen & Máca, sp. nov., *P. (Ashima) eseta* Chen, sp. nov., *P. (Ashima) mediarista* Chen, sp. nov., *P. (Ashima) nakanoi* Chen, sp. nov., *P. (Ashima) biclavata* Chen, sp. nov., *P. (Phortica) ancistria* Chen, sp. nov., *P. (Phortica) monoceaena* Chen, sp. nov., *P. (Phortica) dirhopala* Chen, sp. nov., *P. (Phortica) ryukyuensis* Chen, sp. nov. and *P. (Phortica) sumatraensis* Chen, sp. nov. A species list of the genus *Phortica* is provided.

Key words: Afrotropical region, Drosophilidae, new species, Oriental region, *Phortica*

Introduction

Up to the present, 122 known species of the genus *Phortica* Schiner, 1862 have been reported from the world (Appendix; Chen *et al.*, 2007; Brake & Bächli, 2008; Cheng *et al.*, 2008; Prigent & Chen, 2008; He *et al.*, 2009), including 13 spp. from the Afrotropical region, 4 spp. from Australasian region, 3 spp. from Nearctic region, 1 sp. from Neotropical region, 16 spp. from Palearctic region and 92 spp. from the Oriental region. Recently, the phylogenetic relationships of African and Asian *Phortica* species were investigated based on DNA sequence data of two mitochondrial (*COI*, *ND2*) and one nuclear (*28S rRNA*) genes by Cao *et al.* (2011); the result showed that five monophyletic clades were strongly supported as subgenera, i.e. *Allophortica* Máca, 2003, *Alloparadisa* Chen, 2011, *Ashima* Chen, 2011, *Phortica* (s. str.) and *Shangrila* Chen, 2011; the subgenus *Sinophthalmus* Coquillett, 1904 from Central and North America was not included in the study. This study describes ten new species, which belong to the subgenera *Allophortica*, *Ashima* and *Phortica* (s. str.).

Most specimens examined were males captured while hovering in front of people's eyes in the forest, or resting on tree trunks. The examined specimens are deposited at the following institutions: Forest Research Center, Kuching, Sarawak, Malaysia (FRCK); Museum Zoologicum Bogoriense, Bogor, Indonesia (MZB); Coll. J. Máca, to be deposited in the Entomology Department, National Museum, Praha, Czech Republic (NMP); Department of Entomology, South China Agricultural University, Guangzhou, China (SCAU); Department of Systematic Entomology, Hokkaido University Museum, Sapporo, Japan (SEHU). We followed McAlpine (1981) for the morphological terminology, and Zhang & Toda (1992) and Chen & Toda (2001) for the definitions of measurements, indices and abbreviations.

Systematic Account

Genus *Phortica* Schiner

Phortica Schiner, 1862: 433; Máca, 2003: 251 (revised status); Cao *et al.*, 2011: 682. Type species: *Drosophila variegata* Fallén, 1823.