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Two new species, new synonymies, and new records of Plant bugs (Hemiptera: Heteroptera: Miridae) from Northwestern China

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Abstract

Two new species of Miridae, *Myrmecophyes bykovi* sp. nov. and *Scirtetellus medvedevae* sp. nov., are described from Xinjiang province of China. Illustrations of the male genitalia, tarsus, and pretarsus; photographs of the dorsal habitus; known hosts; and distributional records are provided for each species. Two new synonymies are established, viz. *Chlamydatus laminatus* Li & Liu, 2006 = *Chlamydatus eurotiae* Kerzhner, 1962; and *Chlamydatus sichuanensis* Li & Liu, 2006 = *Chlamydatus pullus* (Reuter, 1870). The following 13 species of Miridae are recorded for the first time from China: *Camptotylus meyeri* Frey-Gessner, 1863, *Dicyphus testaceus* Reuter, 1879, *Liocoris tripustulatus* (Fabricius, 1781), *Monocris griseolus* Putshkov, 1974, *Myrmecophyes kiritshenkoi* Horváth, 1927, *Orthotylus melanotylus* Kerzhner, 1962, *Phytocoris incanus* Fieber, 1864, *Psallopsis haloxyli* Putshkov, 1976, *Psallopsis kallidiicola* Konstantinov, 1997, *Psallus anticus* (Reuter, 1876), *Scirtetellus seminitens* Horváth, 1904, *Tuponia (Chlorotuponia) loginovae* Drapolyuk, 1982, and *Tuponia (Chlorotuponia) cristifera* Drapolyuk, 1982. Also, the following six species of plant bugs are new records for Xinjiang Province: *Camptotylidea suturalis* (Reuter, 1904), *Chlamydatus eurotiae* Kerzhner, 1962, *Compsidolon pumilum* (Jakovlev, 1876), *Excentricoris pictipes* (Reuter, 1878), *Glaucopterum gobicum* Kerzhner, 1984, *Oncotylus vitticeps* Reuter, 1879. *Pherolepis aenescens* (Reuter, 1901) is indicated for Xinjiang and Liaoning Provinces. Indication of *Scirtetellus gudali* Kiritshenko from Inner Mongolia (Bai et al. 2006) is considered erroneous.

Key words: Halticini, taxonomy, new species, new records, new synonymies, Xinjiang, China

Introduction

The paper represents a part of larger effort (Konstantinov & Namyatova 2008, 2009, Konstantinov & Vinokurov 2011, Konstantinov 2012, Vinokurov & Luo 2012) to document the poorly known fauna of the plant bug family Miridae from Northwestern China. Recent collecting in Xinjiang Province, Northwestern China, revealed several plant bug species unknown from the region or new to science. Here we provide the descriptions of two new species from peculiar brachypterous halticine genera *Myrmecophyes* Fieber and *Scirtetellus* Reuter, report 20 plant bug species previously unknown from the Xinjiang Province, and propose new synonymy in the genus *Chlamydatus* Curtis.

Material and methods

Observations, measurements, and dorsal color images were made with a Nikon SMZ 1500 stereomicroscope equipped with Nikon D700 digital camera. Images of genitalia were taken with a Leica DM2500 microscope equipped with Leica EC3 digital camera. Scanning electron micrographs of selected structures were taken using a Hitachi TM3000 tabletop scanning microscope.