



A new genus, three new species, and new records of plant bugs from Korea (Hemiptera: Heteroptera: Miridae: Phylinae: Phylini)

RAM KESHARI DUWAL & SEUNGHWAN LEE¹

Insect Biosystematics Laboratory, Research Institute for Agricultural and Life Sciences, Department of Agricultural Biotechnology, Seoul National University, Seoul, 151-921, Korea. Email: phylinae@snu.ac.kr

¹Corresponding author: E-mail: seung@snu.ac.kr

Abstract

Five genera and seven species of Phylini, including a new genus and three new species are newly recognized in Korea. *Orthophylus* gen. nov., to accommodate *O. yongmuni* sp. nov., and *Moissonia kalopani* sp. nov. and *M. yasunagai* sp. nov. are described. Four genera: *Atractotomoidea* Yasunaga, 1999; *Moissonia* Reuter, 1894; *Monosynamma* Scott, 1864 and *Pseudophylus* Yasunaga, 1999, are reported for the first time in Korea. All reported species are diagnosed with illustrations of male and female genital structures and brief notes.

Key words: Miridae, Phylinae, new genus, new species, new records, Korea

Introduction

In Korea the large and widely diversified plant bug, tribe Phylini (Miridae: Phylinae) is represented with 42 species (Kerzhner and Josifov 1999; Kwon *et al.* 2001; Duwal *et al.* 2010a). Currently, additional specimens allow us to recognize seven more Korean species in five genera including a new genus, and three new species.

Orthophylus gen. nov. to accommodate *O. yongmuni* sp. nov., and *Moissonia* with *M. kalopani* sp. nov. and *M. yasunagai* sp. nov. are described. The following four species are recognized in Korea for the first time: *Atractotomoidea castanea* Yasunaga, 1999; *Moissonia befui* Yasunaga, 1999; *Monosynamma bohemani* (Fallén 1829) and *Pseudophylus stundjuki* (Kulik 1973).

All the measurements are in mm. The number of specimens selected for measurement is indicated by the ratio (no. of male / no. of female) in text. The terminology used for the female genitalia mainly follows Davis (1955), Schuh (2006), Schuh and Wu (2009), Wyniger (2006) and Yasunaga and Schwartz (2007). All specimens in this study are deposited in Seoul National University (SNU). Only selected references are cited in the synonymic list for known taxa, for more details see world (Schuh 1995), and Palearctic (Kerzhner & Josifov 1999) catalogues.

Genus *Atractotomoidea* Yasunaga, 1999

Atractotomoidea Yasunaga, 1999: 190 (n. gen.); Yasunaga, 2001: 154 (diag.); Duwal *et al.* 2010b: 7 (diag.).

Type species: *Atractotomoidea castanea* Yasunaga, 1999 (original designation).

Diagnosis. Generally recognized by tiny, chestnut brown body; uniformly distributed with minute dark spots on dorsal surface furnished with simple, pale and sub-erect pubescence; sub-equal antennal segment III and VI; hooked posterior process of left paramere; mesially coiled endosoma bifurcated apically. For detail description see Yasunaga, 1999.

Distribution. Japan, Korea (South), Nepal, Thailand.