



A new apterous genus of Carventinae (Hemiptera: Aradidae) from China

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Abstract

A new apterous aradid, *Paramorphocoris henanensis* Bai & Heiss Cai, **gen. et sp. nov.**, from China is described and illustrated, including the diagnostic morphological features of the new taxon.

Key words: Hemiptera, Aradidae, Carventinae, *Paramorphocoris*, new genus, new species, apterous, China

Introduction

The Aradidae of the subfamily Carventinae from China and Taiwan are still insufficiently known, with only 15 species belonging to 8 genera recorded to date. Among them, two endemic genera, *Crassocoris* Bai, Heiss & Cai 2007 (*C.hsiaoi*, Bai *et al.* 2007) and *Caiaptera* Bai, Heiss & Cai 2011 (*C.picea*, Bai *et al.* 2011a) were described from China; further species belonging to *Carventus* Stål 1865 (*C.sinensis* and *C.taiwanensis*, Kormilev 1969; *C.hainanensis*, Liu 1981, *C.insularis*, Heiss & Nagashima 2008); *Libiocoris* Kormilev 1957 (*L.sinensis* and *L.heissi*, Bai *et al.* 2006); *Lissonotocoris* Usinger & Matsuda 1959 (*L.membranaceus* Usinger & Matsuda 1959 (cf. Yan *et al.* 2007, Heiss *et al.* 2014)); *Notoplocaptera* Usinger & Matsuda 1959 (*N.taiwanica*, Heiss & Nagashima 2008; *N.hainanensis*, Bai *et al.* 2011a); *Taiwanaptera* Heiss & Nagashima 2008 (*T.glabra*, Heiss & Nagashima 2008) and *Vietnamaptera* Zhang, Bai, Heiss & Cai 2010 (*V.secunda*, *V.tertia* and *V.quarta*, Bai *et al.* 2011b) are known.

While examining Chinese Aradidae, we found a remarkable species of Carventinae from Henan province in Central China, which cannot be placed in any known genus. We therefore propose a new genus for this new species.

Material and methods

This study is based on two specimens preserved in the Entomological Museum of the Inner Mongolia Normal University, Huhhot (IMNU). Photos were taken through Keyence VHX-1000 equipment. Measurements were obtained using a calibrated micrometer. All measurements are in millimeters. Abbreviations used in this paper are: *deltg* = dorsal external laterotergites (connexivum) and *mtg* = mediotergites.

Taxonomy

Paramorphocoris Bai & Heiss, gen. n.

Type species: *Paramorphocoris henanensis* Bai & Heiss, sp.n.

Diagnosis. Apterous. Medium sized. Body elongate ovate. Dorsal and ventral surfaces partly covered by grayish incrustation of unique pattern, only lateral borders with few short bristles. Head longer than width across eyes; genae slender, produced over clypeus; antenniferous tubercles stout, conical, apically pointed; eyes small, semiglobose, with