



Redescription of *Callostethus* Ruckes, 1961 (Hemiptera: Heteroptera: Pentatomidae: Discocephalinae) with the description of *C. flavolineatus* sp. nov.

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Abstract

The genus *Callostethus* was described for *Mecistorhinus guttatopunctatus* (Fabricius, 1803). Here we describe a second species of the genus, *C. flavolineatus* sp. nov., based on a male collected in Amapá, Brazil. Descriptions were made using external morphological characters. *Callostethus* is closely allied to *Antiteuchus* and can be separated from it by the mesosternum slightly tumid with a low median subcalloused carina, calloused yellow or reddish margin of the metapleuron, and the structure of the pygophore.

Key words: *Callostethus flavolineatus*, new species, Discocephalini, Neotropical region, taxonomy

Introduction

The genus *Callostethus* was proposed by Ruckes (1961) as a monotypic taxon for a species with a long history of changes among different genera. Fabricius (1803) described *Edessa guttatopunctata*. Dallas (1851) proposed the genera *Mecistorhinus* and *Antiteuchus* including in the latter one his new species *A. griseus*. Walker (1867) described *Discocephala signata* for two specimens collected in the Amazon region. Stål (1868) transferred *E. guttatopunctata* to *Antiteuchus* and considered *A. griseus* Dallas a junior synonym of *A. guttatopunctatus*. Uhler (1869) described *Antiteuchus fraternus* from Napo's river valley (Peru). Stål (1872) merged *Antiteuchus* with *Mecistorhinus* and considered the second a subgenus of *Dinocoris* including *D. (M.) guttatopunctatus*. Lethierry & Severin (1893) listed *Dinocoris guttatopunctatus* without including it in a subgenus. Distant (1899) considered *Discocephala signata* a junior synonym of *D. guttatopunctatus*. Kirkaldy treated *Antiteuchus* as a subgenus of *Mecistorhinus* including *M. guttatopunctatus* in the nominal subgenus. Ruckes (1961), revising the *Mecistorhinus*–*Antiteuchus* complex, raised *Antiteuchus* to generic level and suggested that *Callostethus* contain *M. guttatopunctatus*. Ruckes (1964) mentioned *C. guttatopunctatus* in the key to the genera associated with *Antiteuchus* separating both genera by the shape of the mesosternum. Froeschner (1979) considered *A. fraternus* a junior synonym of *C. guttatopunctatus*. Froeschner (1981) included this species in the catalog of Ecuadorian species of Heteroptera. Until now the genus *Callostethus* has been monotypic.

Material and methods

A total of four specimens were examined, belonging to the Departamento de Zoologia, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil (UFRG); and the Museu de Zoologia, Universidade de São Paulo, Brazil (MZSP).

Measurements are expressed in millimeters. Illustrations were made with a drawing tube connected to a stereomicroscope. The terminology of genitalia follows Fernandes & Grazia (2006) and Kment & Vilímová (2010) for