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The genus *Platytenerus* Miyatake, 1985 (Coleoptera: Cleridae: Neorthopleurinae), with description of a new species from Japan

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Abstract

The genus *Platytenerus* Miyatake, 1985 (Coleoptera: Cleridae) is redescribed and classified into the subfamily Neorthopleurinae Opitz, 2009. A phylogenetic tree is supplementally provided for *Platytenerus* based on twenty morphological and two geographical characters. A new species of the genus, *Platytenerus iriomotensis* sp. n. is described from Iriomote Island, Okinawa, Japan.

Key words: Cleridae, *Platytenerus*, redescription, new species, phylogeny, inflated condition of aedeagus

Introduction

The genus *Platytenerus* (Coleoptera: Cleridae) is represented by single species, *P. castaneus* known from Japan and Russia (Melnik, 2009), and characterized by its castaneus body and short pectinate antennae. This genus was erected under the subfamily Enopliinae by Miyatake (1985) with the brief description in his book. Opitz (2009) established the subfamily Neorthopleurinae, to which 11 genera of Enopliinae were transferred, and Opitz (2010) provided inventory of the generic taxon of Enopliinae. However, the genus was not treated in Opitz (2009, 2010).

In this study, I redescribe the genus *Platytenerus*, and reevaluate its systematic position by analysing phylogenetic relationships among *Platytenerus* and its allies. Additionally, I describe a new species of the genus from Iriomote Island, Okinawa, Japan.

Material and methods

The materials in this study are preserved in the following institutions and private collections: **EUMJ**: Ehime University Museum, Matsuyama, Ehime, Japan; **HNHJ**: Higashitaisetsu Nature Center, Kamishihoro, Hokkaidō, Japan; **KSJ**: private collection of Kaoru Sakai, Tokyo, Japan; **MOJ**: private collection of Masaaki Oda, Fukuoka, Japan; **KKJ**: private collection of Katsuya Kido, Fukuoka, Japan; **SIJ**: private collection of Shouichi Imasaka, Fukuoka, Japan. The original spelling of label data for the type series is indicated by double quotation mark (“ ”), of which line brakes are indicated by a slash (/). The abbreviations used in this paper are as follows: **BL**: body length (PL+EL); **EL**: elytral length (from basal margin to apex in suture); **EW**: maximum conjoint width of elytra; **PL**: maximum length of pronotum; **PW**: maximum width of pronotum.

The observational method of terminal parts and inflated aedeagus follows Murakami & Yamasako (2012). Terminal parts photographs were taken with a microscopy camera system (Nikon DS-Fi1-L2) attached to a biological microscope (Olympus BH-2) and a stereomicroscope (Leica S8APO). Measurements were done using a micrometer eyepiece with a scale.

Following Opitz (2013), twenty adult morphological and two geographical characters were used for the analysis as follows:

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