



Revision of the *Agrilus muscarius* species-group (Coleoptera: Buprestidae) with description of thirteen new species from Palaearctic and Oriental regions

EDUARD JENDEK & VASILY V. GREBENNIKOV

Entomology Research Laboratory, Ottawa Plant Laboratories, Canadian Food Inspection Agency, K.W. Neatby Bldg., 960 Carling Avenue, Ottawa, Ontario, K1A 0C6, Canada. E-mail: jendek@agr.gc.ca

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Abstract

The *Agrilus muscarius* species-group (Coleoptera, Buprestidae, Agrilinae) is defined to include twenty-nine species, thirteen of which are described herein: *A. apicaureus* Jendek, **sp. nov.** (north Laos); *A. carinelytratus* Jendek, **sp. nov.** (mainland Malaysia); *A. cuneatus* Jendek, **sp. nov.** (Thailand); *A. dilatipenis* Jendek, **sp. nov.** (Thailand); *A. haucki* Jendek, **sp. nov.** (Malaysia: Pahang); *A. hunanus* Jendek, **sp. nov.** (China: Hunan); *A. madanensis* Jendek, **sp. nov.** (south Vietnam); *A. pseudoharlequin* Jendek, **sp. nov.** (Indonesia: Java); *A. rolciki* Jendek, **sp. nov.** (India: Assam); *A. semicaducus* Jendek, **sp. nov.** (north Laos); *A. spiculipenis* Jendek, **sp. nov.** (Thailand, Vietnam); *A. tiomanensis* Jendek, **sp. nov.** (Malaysia: Tioman island); *A. ventrituber* Jendek, **sp. nov.** (Myanmar, north Thailand). *Agrilus aurarius* (Kerremans, 1892) **comb. nov.** is transferred from the genus *Meliboeus*. Two new synonyms are proposed for *A. aurarius* (Kerremans, 1892) **comb. nov.** (= *A. bocae* Descarpentries & Villiers, 1963 **syn. nov.**) and *A. muscarius* Kerremans, 1895 (= *A. seladon* Obenberger, 1940 **syn. nov.**). A lectotype is designated for *A. muscarius* Kerremans, 1895. Members of the group are illustrated and an identification key is provided.

Key words: Taxonomy, new species, Coleoptera, Buprestidae, *Agrilus*, Palaearctic and Oriental regions

Introduction

Species from the *Agrilus muscarius* species-group are strikingly, often bichromatically or trichromatically, pubescent in the form of intricate mosaic patterns. Each pubescence color is usually combined with a different colored elytral background, making it visually more contrasting. This character of elytral pubescence and color is similar to that of species related to *A. angulatus* (Fabricius, 1798) and *A. occipitalis* (Eschscholtz, 1822), from which members of the *A. muscarius* species-group can be distinguished by the smaller head and eyes, the different shape and sculpture of the pronotum and by the diverse elytral patterns. Members of the *A. muscarius* species-group are distributed in the Palaearctic and Oriental parts of south and east Asia (Fig. 77).

This study is the first comprehensive revision of this group as a whole. It provides descriptions of thirteen new taxa, two new synonyms, one new generic combination, one lectotype designation, diagnosis of the group and a key to the species, illustrations, taxonomic history and synoptic catalog for all included species.

Material and methods

The following abbreviations are used in the text: [p], preceding data 'printed'; [h], preceding data 'handwritten'. Square brackets [] are used for remarks and addenda; the backslash \ separates data from different labels. Codens for museums and collections are:

DEI	Deutsches Entomologisches Institut, Eberswalde Finow, Germany;
EJCB	Collection of E. Jendek, Slovak Academy of Sciences, Bratislava, Slovakia;
ISNB	Institut royal des Sciences naturelles de Belgique, Brussels, Belgium;
MHNB	Muséum d'histoire naturelle, Béziers, France;
MNHN	Muséum national d'Histoire naturelle, Paris, France;
NMPC	Národní muzeum, Prague, Czech Republic;
NSMT	National Science Museum (Natural History), Tokyo, Japan;
USNM	National Museum of Natural History, Washington, D.C., U.S.A.;
ZIN	Zoological Institute, Russian Academy of Sciences, St. Petersburg, Russia.

All taxonomic acts proposed herein should be attributed to the first author. All primary types belonging to *A. muscarius* species-group were studied, except for *A. palii* Baudon, 1968 (MHNB) which was unavailable.

Synonyms are cited in the following format: *specific name*, author, year: pages. The valid name is cited first, then chronologically by invalid names that are preceded by an equal sign (=). Taxonomic and/or