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**Synopsis of the genera of Geniatini (Coleoptera: Scarabaeidae: Rutelinae)
with an annotated catalog of species**

MARY LIZ JAMESON & SHAUNA JOY HAWKINS



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Synopsis of the genera of Geniatini (Coleoptera: Scarabaeidae: Rutelinae) with an annotated catalog of species

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Abstract

We provide an overview and synopsis of the 13 genera of Geniatini (Coleoptera: Scarabaeidae: Rutelinae) including keys to genera (Spanish and English), catalog, representative habitus illustrations for all genera, character illustrations, and distribution maps for each genus. We summarize the natural history, pest status, and distributional data for each genus. Diagnostic characters are provided for each genus, and generic-level relationships are discussed. We provide an annotated catalog of all taxa in the tribe with distributional data for each species. The following taxonomic changes are made: *Bolax costipennis* Machatschke, 1974 is a homonym and new junior synonym of *B. costipennis* Ohaus, 1928; *Geniates panamaensis* Frey, 1976 is transferred to the genus *Lobogeniates* (= *Lobogeniates panamaensis* (Frey)); *Geniates lindemanna*e Frey, 1976 is transferred to *Geniatosoma* Costa Lima (= *Geniatosoma lindemanna*e (Frey)); *Geniatosoma fernandezi* Martínez, 1977 is a new junior synonym of *Geniatosoma lindemanna*e Frey; and *Trizogeniates caseyi* Villatoro, 2002, which was created as a replacement name for a junior homonym, is an unavailable name.

Resumen

Proveemos una síntesis y sinopsis de los 13 géneros de Geniatini (Coleoptera: Scarabaeidae: Rutelinae) incluyendo claves para los géneros (español y inglés), un catálogo, ilustraciones representativas del habitus para todos los géneros, ilustraciones del características, y mapas de la distribución para los géneros. Resumimos la historia natural, estatus como especies plagas y datos de distribución de cada género. Se proveen los caracteres diagnósticos para cada género y las relaciones entre géneros son discutidas. Proveemos un catálogo anotado para todos los taxa de la tribu y datos de distribución par cada especie. Los siguientes cambios nomenclaturales fueron hechos: *Bolax costipennis* Machatschke, 1974 es un homónimo sinónimo menor de *B. costipennis* Ohaus, 1928; *Geniates panamaensis* Frey, 1976 es transferido al género *Lobogeniates* (= *Lobogeniates panamaensis* (Frey)); *Geniates lindemanna*e Frey, 1976 es transferido al género *Geniatosoma* Costa Lima (= *Geniatosoma lindemanna*e (Frey)); *Geniatosoma fernandezi* Martínez, 1977 es un nuevo sinónimo menor de *Geniatosoma lindemanna*e Frey; y *Trizogeniates caseyi* Villatoro, 2002, que fue creado como nombre de reemplazo para un homónimo menor es un nombre inválido.

Key words: scarab beetle, identification, taxonomy, geniatines, New World

Introduction

The tribe Geniatini (Coleoptera: Scarabaeidae: Rutelinae) includes 13 genera (Figs. 1–13) and 327 described species that inhabit tropical forests in the New World. Species in the group are primarily nocturnal, a trait that accounts for large eyes in many of the species (Frey 1976a). The common name for the group, “bearded scarabs”, is derived from the dense pad of brush-like setae on the mentum of some species, especially species of the nominotypical genus *Geniates* Kirby.

Like all species of Rutelinae, adult geniatines feed on flowers, fruits, and vegetation.