



A revision of the Malagasy endemic genus *Adetomyrma* (Hymenoptera: Formicidae: Amblyoponinae)

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Abstract

The species-rank taxonomy of the genus *Adetomyrma* Ward, 1994 is revised. Nine species are distinguished with eight described as new: *A. aureocuprea* sp. nov., *A. bressleri* sp. nov., *A. caputleae* sp. nov., *A. cassis* sp. nov., *A. caudapinniger* sp. nov., *A. cilium* sp. nov., *A. clarivida* sp. nov., *A. goblin* sp. nov. Worker-male associations are identified for all worker-based species: *A. bressleri*, *A. caputleae*, *A. goblin* along with *A. venatrix* Ward, 1994 from which the male is described for the first time. Five new species are described only from males. An ergatoid queen of *Adetomyrma* is described for the first time. Keys to species for workers and males are given.

Key words: Male, worker, queen, ergatoid, Malagasy region, Madagascar, Malaise trap, key to species, morphological characters, genitalia, Amblyoponini, *aureocuprea*, *bressleri*, *caputleae*, *cassis*, *caudapinniger*, *cilium*, *clarivida*, *goblin*, *venatrix*

Introduction

The genus *Adetomyrma* Ward, 1994 was described as a Malagasy endemic monotypic genus. Ward (1994) assigned this genus to Amblyoponini within the subfamily Ponerinae on the basis of the worker morphology of the type species *Adetomyrma venatrix* Ward, 1994. Later, Bolton (2003) raised this tribe to subfamily status as Amblyoponinae.

Subsequent molecular studies have confirmed the placement of *Adetomyrma* within the Amblyoponinae (Saux *et al.* 2004; Ouellette *et al.* 2006; Moreau *et al.* 2006; Brady *et al.* 2006). Yoshimura & Fisher (2012) recently proposed a new genus diagnosis and description for *Adetomyrma* based on the morphological characters of the males.

In this study, we propose a species-level taxonomic system for the genus *Adetomyrma*. Comprehensive morphological and distributional examinations using the accumulated material distinguish nine species in this genus; eight of them are described as new. The male of *Adetomyrma venatrix* is described for the first time. Out of the eight newly-named species, three are described only from workers, all of which are associated with males, and five are described only from males. Queens are known only in two species and one of these is ergatoid. Also, keys to species for the workers and males are given.

Materials and methods

Abbreviations of depositories

BMNH: The Natural History Museum (British Museum, Natural History), London, U.K.

CASC: California Academy of Sciences, San Francisco, California, U.S.A.

MCZC: Museum of Comparative Zoology, Cambridge, Massachusetts, U.S.A.

MHNG: Muséum d'Histoire Naturelle de la Ville de Genève, Geneva, Switzerland.

NHMB: Naturhistorisches Museum, Basel, Switzerland.

PBTZ: Parc Botanique et Zoologique de Tsimbazaza, Antananarivo, Madagascar.