

The  
**PAN-PACIFIC  
ENTOMOLOGIST**

**Description of *Bocchus irwini* sp. nov. from Madagascar  
(Hymenoptera: Dryinidae)**

MASSIMO OLMI<sup>1</sup> AND ADALGISA GUGLIELMINO<sup>2</sup>

<sup>1</sup>Tropical Entomology Research Center, Via De Gasperi 10, I-01100 Viterbo, Italy  
Corresponding author: e-mail: olmi@unitus.it

<sup>2</sup>Department of Agriculture, Forests, Nature and Energy, University of Tuscia,  
Via San Camillo de Lellis, I-01100 Viterbo, Italy  
e-mail: guglielm@unitus.it

**Description of *Bocchus irwini* sp. nov. from Madagascar  
(Hymenoptera: Dryinidae)**

MASSIMO OLMI<sup>1</sup> AND ADALGISA GUGLIELMINO<sup>2</sup>

<sup>1</sup>Tropical Entomology Research Center, Via De Gasperi 10, I-01100 Viterbo, Italy  
Corresponding author: e-mail: olmi@unitus.it

<sup>2</sup>Department of Agriculture, Forests, Nature and Energy, University of Tuscia,  
Via San Camillo de Lellis, I-01100 Viterbo, Italy  
e-mail: guglielm@unitus.it

*Abstract.* *Bocchus irwini* sp. nov. is described from a male collected in Analagnambe forest, Mahajanga Province, Madagascar. The new species is similar to *Bocchus watshami* Olmi 1987. Keys to the Afrotropical species of *Bocchus* are modified to include the new species.

*Key Words.* Taxonomy, Chrysidoidea, Bocchinae, Afrotropical dryinids, key, Mahajanga Province, Sofia District.

---

INTRODUCTION

Dryinidae (Hymenoptera: Chrysidoidea) are parasitoids of Hemiptera Auchenorrhyncha (Guglielmino & Bückle 2003, 2010; Guglielmino et al. 2006; Guglielmino & Olmi 1997, 2006, 2007; Guglielmino & Virla 1998). Afrotropical Dryinidae have been studied in recent years mainly by Olmi (1984, in addition to thirty papers published between 1986 and 2011) and Olmi & Van Harten (2000, 2006).

Among Dryinidae, the genus *Bocchus* Ashmead, 1893 is one of the most interesting from a biological point of view. Species of *Bocchus* are known to parasitize planthoppers belonging to Caliscelidae and Tropicuchidae (Guglielmino & Olmi 1997, 2006, 2007). According to Benoit (1954), Olmi (1984, 1987, 1991, 1994, 1998, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2011) and Olmi & Van Harten (2006), 26 species of *Bocchus* are known from the Afrotropical region.

In 2012, the authors examined a collection of dryinids deposited in the California Academy of Sciences, San Francisco, U.S.A. This study resulted in the discovery of one new species from Madagascar described herein.

METHODS AND MATERIALS

The descriptions follow the terminology used by Olmi (1984), Olmi & Guglielmino (2010) and Xu et al. (2011, 2012, 2013). The measurements reported are relative, except for the total length (head to abdominal tip, without the antennae), which is expressed in millimetres. In the descriptions POL is the distance between the inner edges of the lateral ocelli; OL is the distance between the inner edges of a lateral ocellus and the median ocellus; OOL is the distance from the outer edge of a lateral ocellus to the compound eye; OPL is the distance from the posterior edge of a lateral ocellus to the occipital carina; TL is the distance from the posterior edge of an eye to the occipital carina.

The material studied in the present paper is deposited in the following collections:  
CAS: California Academy of Sciences, San Francisco, U.S.A.

MOLC: Department of Plant Protection, University of Tuscia, Viterbo, Italy  
(Massimo Olmi's collection).