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## Six new *Dinotrema* species (Hymenoptera, Braconidae) from Spain, with prescutellar pit and medially sculptured propodeum

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### Abstract

Descriptions of six new species of the genus *Dinotrema* from Spain with smooth or only medially sculptured propodeum are provided. The new species described are: *D. achterbergi* sp. nov., *D. broadi* sp. nov., *D. enanum* sp. nov., *D. fischerianum* sp. nov., *D. munki* sp. nov. and *D. pappi* sp. nov.

**Key words:** Parasitoids, taxonomy, descriptions, Dacnusiini, Alysiinae, Western Palearctic

### Introduction

The genus *Dinotrema* Foerster, 1862 is the largest genus in the subfamily Alysiinae. About 250 species of this genus have been recorded in Western and Central Europe (e.g., Fischer 1972, 1993; Achterberg 1988), as well as from Russia and adjacent territories (Tobias 2003, 2004a, 2004b, 2006).

However, *Dinotrema* has been very poorly studied in Spain and only 19 species are known at present (Fischer *et al.* 2008). The main aim of this revision is an understanding of the composition of this genus in the Spanish fauna as part of an ongoing project to prepare a new key for the determination of Western Palearctic *Dinotrema* species. In this paper, six new species with prescutellar pit and medially sculptured propodeum are described and illustrated, viz. *Dinotrema achterbergi* sp. nov., *D. broadi* sp. nov., *D. enanum* sp. nov., *D. fischerianum* sp. nov., *D. munki* sp. nov., and *D. pappi* sp. nov..

### Material and methods

The specimens for this study were collected by Malaise traps in the Natural Park of Carrascal de la Font Roja (Alicante Province, Spain) and in the Natural Park of La Tinença de Benifassà (Castellon Province, Spain). The climatic and orographic descriptions of these National Parks are given by Peris-Felipo and Jiménez-Peydró (2011). For the terminology of the morphological features and sculpture, measurements and wing venation nomenclature, see Fischer (1973). Measurements of the length and width of mandible are shown on the Fig. 1.

The following abbreviations are used in the paper: POL—postocellar line; OOL—ocular-ocellar line; OD—maximum diameter of lateral ocellus. The types of species described are deposited in the Entomological Collection of the University of Valencia (Valencia, Spain; ENV), some paratypes are in the collection of Zoological Institute RAS (St. Petersburg, Russia; ZISP).