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## Description of the immature stages of *Platycrepidius dewynteri* Chassain (Coleoptera, Elateridae, Agrypninae, Platycrepidiini) from Brazil with a synopsis of the larval characters of Agrypninae tribes

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### Abstract

Mature larva and pupa of *Platycrepidius dewynteri* Chassain are described, from Pará state, Brazil. Biological notes under laboratory conditions and comparison with *P. bicinctus* Candèze are also included. Additionally, we present a synopsis and a morphological comparative study based mainly on literature of the known mature larvae of the Agrypninae genera.

**Key words:** Agrypnini, bromeliad, Anaissini, Euplinthini, Hemirhipini, larva, Neotropical region, Oophorini, Platycrepidiini, Pseudomelactini, pupa, Pyrophorini, Tetralobini, *Werauhia*

### Introduction

*Platycrepidius* Candèze is the single genus of the Agrypninae elaterid tribe Platycrepidiini and comprises 27 species (Cusatti *et al.*, 2010, Chassain, 2009) distributed on the Neotropical region. Casari-Chen (1986) described the larva and pupa of *Platycrepidius bicinctus* Candèze, from São Paulo state, Brazil, up to now, the only known immatures for this genus. Here we describe mature larva and pupa of *Platycrepidius dewynteri* Chassain from Pará state, Brazil. This species was recently described for French Guiana (Chassain, 2009).

Besides Platycrepidiini, Agrypninae comprises the tribes Agrypnini, Anaissini, Euplinthini, Hemirhipini, Oophorini, Pyrophorini and Tetralobini. Pseudomelactini was cited as a tribe of Agrypninae by Costa *et al.* (2010) and Bouchard *et al.* (2011). Nevertheless, Calder & Hayek (1992) synonymised *Pseudomelanactes* Mathieu under *Anthracalaus* Fairmaire, and therefore Pseudomelactini under Hemirhipini, a position corroborated in a cladistic analysis of Hemirhipini (Casari, 2008). The majority of agrypnine tribes has larva described at least for one species.

In the present work, in addition to the description of the immatures of *Platycrepidius dewynteri*, we present biological notes under laboratory conditions and a synopsis and comparative study of the known larvae of the Agrypninae genera. We intend to contribute to the knowledge of Elateridae and to future studies on taxonomy and phylogeny of the Agrypninae tribes.

### Material and methods

Field works were conducted in Brazil, Pará state, in urban area, for one day by F. F. Albertoni. Four larvae were collected in the litter between the leaves of a large arboreal bromeliad, *Werauhia* cf. *gigantea* (Figs. 1, 2). The larvae were reared in a plastic vessel with the substrate where they were found: the leaf litter from the bromeliad

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