



## Immature stages and redescription of *Lejops barbiellinii* (Ceresa) (Diptera, Syrphidae) found in bromeliads in Brazil

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### Abstract

A new combination is proposed: *Habromyia barbiellinii* (Hull 1946) = *Lejops barbiellinii* (Ceresa 1934). Third-stage larvae and puparia of *Lejops barbiellinii* are described and the adult male redescribed. The larvae were found in phytotelmata of terrestrial Bromeliaceae in Parque Estadual do Rio da Onça, Matinhos, Paraná, Brazil.

**Key words.** Bromeliads, description, early stages, phytotelmata, taxonomy, Neotropical

### Introduction

Some Syrphidae immature stages have been recorded occurring in phytotelmata of bromeliads but few could be identified to species and related to the adults. Phytotelmata is a wide term for plant container habitat which includes bromeliads (Frank 1983, Kitching 2000). Bromeliads are angiosperms belonging to the family Bromeliaceae and can occur on the ground as terrestrial plants, but are mostly known as epiphytes in the rainforest (Kitching 2000).

Some researchers have focused their studies on Syrphidae from the phytotelmata of bromeliads and have described new species from the Neotropical Region but the Brazilian Syrphidae fauna remain completely unknown. Rotheray *et al.* (2000) described two species of *Ocyptamus* Macquart in bromeliads in Costa Rica: *O. luctuosus* (Bigot) and *O. wulpianus* (Lynch Arribálzaga). This two species were found feeding on larvae of other aquatic invertebrates.

Rotheray *et al.* (2007) reared 23 *Copestylum* species collected in bromeliads in Bolivia, Costa Rica, Ecuador, Mexico and Trinidad of which 22 are new. The new species were described and details of breeding sites and early stages of all 23 species were given.

The genus *Lejops*, within the current classification of flower flies, belongs to the subtribe Helophilina of the tribe Eristaliini, subfamily Eristalinae. It is closely related to *Helophilus* Meigen, *Quichuana* Knab and *Mallota* Meigen (Thompson 2000).

*Lejops barbiellinii* is a species of Syrphidae with an exclusive distribution in Brazil. It was first described in the genus *Quichuana* and is here transferred to *Lejops*.

### Material and methods

The larvae of *Lejops barbiellinii* were collected in a water pocket (phytotelmata) of terrestrial bromeliads in Parque Estadual do Rio da Onça, Paraná State, southern Brazil. The Park has approximately 118.50 ha and is