

## ***Angelagrion* gen. nov. with description of *A. nathaliae* sp. nov. and *A. fredericoi* sp. nov. from Brazil (Odonata: Coenagrionidae)**

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### **Abstract**

A new genus of Coenagrionidae is described from Brazil, *Angelagrion* (type species *Angelagrion fredericoi* sp. nov.) including two new species, *A. fredericoi* sp. nov. and *A. nathaliae* sp. nov.. The new genus is characterized by an enormous and modified internal fold of genital ligula, abdominal segments S8-10 dark brown or black contrasting with mostly bluish abdomen, sternum of S8 in males with a circular bluish-white spot, and short CuA.

**Key words:** Odonata, Zygoptera, Coenagrionidae, *Angelagrion*, new genus, new species, Brazil

### **Resumo**

Um novo gênero de Coenagrionidae é descrito para o Brasil, *Angelagrion* (espécie tipo *Angelagrion fredericoi* sp. nov.) incluindo duas novas espécies, *A. fredericoi* sp. nov. e *A. nathaliae* sp. nov.. O novo gênero é caracterizado pela enorme e modificada dobra interna da lígula genital, segmentos abdominais S8-10 marrom escuro ou preto contrastando com o abdômen na maior parte azulada, esternito do 8º segmento abdominal nos machos com uma mácula arredondada branco-azulada, e pela nervura CuA curta.

### **Introduction**

Generic assignment of Neotropical Zygoptera species is usually much more difficult than correct association of specimens to species. This situation is especially grave for members of family Coenagrionidae, in which several generic concepts were shown to be artificial, and generic keys were lacking. Fortunately these problems have been recently addressed; Lencioni (2006) provided a key to all Coenagrionidae genera described from Brazil, and several genera were recently redefined (Garrison & von Ellenrieder 2008; von Ellenrieder 2008a, b; von Ellenrieder & Garrison 2008a, b; von Ellenrieder & Lozano 2008).

In the most densely inhabited area of Brazil I recently found two new species of a new genus of Coenagrionidae. In 2002 near Rio Claro, São Paulo I collected a single female of a new species which resembled a *Lep tobasis* Selys, but did not agree with several aspects of the genus. In 2005 my father, Prof. Frederico Lencioni Neto, collected in São José dos Campos, São Paulo a male of a second species which belongs to the same genus, and in more recent collecting trips to these localities we collected additional material of both species which I describe here as new.