

## A review of the American species of *Xenelmis* Hinton (Coleoptera: Elmidae), with a new species from Argentina

VERÓNICA MANZO

*Faculty of Natural Sciences, National University of Tucumán, Miguel Lillo 205 (4000) Tucumán, Argentina.*

### Abstract

The genus *Xenelmis* Hinton is taxonomically reviewed. A new species of riffle beetle from Argentina, *Xenelmis uruzuensis* **sp. nov.** is described and illustrated from adults of both sexes and the larva. Ten additional species of *Xenelmis* are treated: *X. sandersoni* Brown, *X. bufo* (Sharp), *X. rufipes* Delève, *X. leechi* Perkins & Steiner, *X. marcapata* Perkins & Steiner, *X. tarsalis* Hinton, *X. teres* Hinton, *X. audax* Hinton, *X. comis* Hinton and *X. laura* Brown. Male genitalia of each species are illustrated, some of them for the first time. Distributional records, diagnoses and a key to distinguish the species of *Xenelmis* are included.

**Key words:** riffle beetles, Elmidae, Elminae, *Xenelmis*, South America

### Introduction

The elmid fauna of South America is poorly studied and only a few of the South American genera are clearly defined. In addition to this, no cladistic analyses at a generic level have ever been performed. There is only a preliminary phylogenetic analysis presented by Costa et al. (1999) on Byrrhoidea *sensu* Lawrence and Newton (1995) where the family Elmidae, as currently defined, appears as paraphyletic. The family comprises two subfamilies, Larainae and Elminae; the genus *Xenelmis* Hinton, belongs to the subfamily Elminae.

*Xenelmis* includes minute riffle beetles ranging from southern North America to northern Argentina. With the species described here there are currently 13 species recognized in the genus. Hinton (1936) erected *Xenelmis* for *Elmis bufo* described by Sharp (1882) from Panama. Hinton (1940) redescribed *Xenelmis*, diagnosed *X. tarsalis* and included two species originally described by Grouvelle (1889) in *Elmis*, *X. granata* and *X. micros*, both from Brazil. A few years later Hinton (1946) described 3 new species, *X. teres* from Brazil, *X. audax* from Brazil and Argentina and *X. comis* from Paraguay,