

## **CHECKLIST: MITES, CHIGGERS AND TICKS ASSOCIATED WITH BATS (MAMMALIA: CHIROPTERA) IN THE EASTERN AMAZON, PARÁ AND MARANHÃO, BRAZIL**

**B.K. Gomes-Almeida<sup>1,2</sup>, A.R. Pepato<sup>3</sup> & J. Muriel-Cunha<sup>1,2</sup>**

<sup>1</sup>PPG Biodiversidade e Conservação, Universidade Federal do Pará, Altamira, PA, Brazil; <sup>2</sup>Laboratório de Ictiologia e Biodiversidade Subterrânea da Amazônia, Instituto de Estudos Costeiros, Universidade Federal do Pará, Bragança, PA, Brazil; <sup>3</sup>Laboratório de Sistemática e Evolução de Ácaros Acariformes, Instituto de Ciências Biológicas, Universidade Federal de Minas Gerais (UFMG), Belo Horizonte, MG, Brazil.

Fifty-one nominal species belonging to ten families and three suborders of mites associated with bats were reported to Brazil, with Mato Grosso do Sul being the state with the highest number of occurrences. In this study, ectoparasite mites were collected from bats at 20 sites in the states of Maranhão and Pará. Mite specimens were mounted on microscope slides in Hoyer's medium and identified from information available in the literature and specialists. A total of 42 species and 19 genera of mites of the families Sarcoptidae, Trombiculidae, Leeuwenhoekiidae, Argasidae, Ixodidae, Macronyssidae and Spinturnicidae were recorded as parasites of 34 bats species. Of these, nine records were for the first time reported to Brazil. New hosts and new localities were registered, increasing the knowledge about the geographical distribution of these invertebrates. The research on ectoparasite mites are scarce in Brazil and, as far as the Amazon is concerned, knowledge is even more deficient. The few studies are limited to sporadic records, allied to the difficulty of access to the biome and the lack of taxonomists. This study expands the biodiversity scenery of acarofauna associated with bats in the Amazon and contributes to the formation of taxonomists and collections of acarology.

**Keywords:** Biodiversity, taxonomy, ectoparasites, Acari, neotropical.

**Financial support:** FAPESPA/CAPES- Grant of masters scholarship.