

## Collections of Bruchomyiinae and Phlebotominae (Diptera: Psychodidae) from the north-central portion of the State of Veracruz, Mexico, with the description of a new species

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### Abstract

An entomological survey was carried out in the municipalities of Juchique de Ferrer and Colipa in the north-central area of the State of Veracruz, Mexico, where some human cutaneous leishmaniasis cases have been recorded. These sampling efforts were undertaken to identify potential vectors of *Leishmania* species in that area. A total of 123 specimens were obtained, corresponding to one species of the Bruchomyiinae genus *Nemapalpus* Macquart, and six species of the Phlebotominae genus *Lutzomyia* França. Additional morphological characters of the poorly known male of *Nemapalpus dampfianus* Alexander and a description of *Lutzomyia leohidalgoi* **sp. nov.**, based on male and female characteristics, are presented with illustrations. This is the first record from Veracruz of *Nemapalpus dampfianus* Alexander, *Lutzomyia serrana* (Damasceno & Arouck) (species group *Verrucarum*), *Lutzomyia (Psathyromyia) cratifer* (Fairchild & Hertig), and *Lutzomyia (Helcocyrtomyia) oppidana* (Dampf). *Lutzomyia (Lutzomyia) cruciata* (Coquillett) and *L. (Psathyromyia) shannoni* (Dyar) are anthropophilic species already known from Veracruz.

**Key words:** Psychodidae, Bruchomyiinae, Phlebotominae, Mexico, *Nemapalpus*, *Lutzomyia*, new species

### Introduction

In April 2005, an entomological survey was carried out in the municipalities of Juchique de Ferrer and Colipa in the north-central area of the State of Veracruz, Mexico, where some human cutaneous leishmaniasis cases had been recorded. Additional captures were made in January, February, and March 2006. These sampling efforts were undertaken to