



<http://dx.doi.org/10.11646/zootaxa.3737.3.3>

<http://zoobank.org/urn:lsid:zoobank.org:pub:2940BE8C-76A9-4B14-9956-2F21191885EE>

## Four new species of genus *Parallaxis* McAtee (Hemiptera: Cicadellidae: Typhlocybinae: Dikraneurini) from Argentina, with a key to known species

MARÍA INÉS CATALANO<sup>1\*</sup>, SUSANA L. PARADELL<sup>2</sup> & CHRISTOPHER H. DIETRICH<sup>3</sup>

<sup>1</sup> Centro de Bioinvestigaciones, Departamento de Ciencias Básicas y Experimentales, Universidad Nacional del Noroeste de la Provincia de Buenos Aires, Monteagudo 2772, Pergamino, Buenos Aires, 2700, Argentina. CONICET

<sup>2</sup> División Entomología, Facultad de Ciencias Naturales y Museo, Universidad Nacional de La Plata. Paseo del Bosque s/n, La Plata, Buenos Aires, 1900, Argentina. CIC

<sup>3</sup> Illinois Natural History Survey, Institute of Natural Resource Sustainability, University of Illinois, 1816 S. Oak Street, Champaign, Illinois, 61820, USA

\*Corresponding author. E-mails: [mariainescatalano@unnoba.edu.ar](mailto:mariainescatalano@unnoba.edu.ar); [marianescatalano@gmail.com](mailto:marianescatalano@gmail.com)

### Abstract

Four new species of *Parallaxis* McAtee are described from Argentina, *P. jujuiensis* sp. n., *P. misionensis* sp. n., *P. tucumanensis* sp. n. and *P. virilai* sp. n. Detailed morphological descriptions and illustrations of the new species and a key to males of known species are provided.

**Key words:** Auchenorrhyncha, identification, morphology, distribution

### Resumen

Cuatro nuevas especies de *Parallaxis* McAtee son descritas desde Argentina, *P. jujuiensis* sp. n., *P. misionensis* sp. n., *P. tucumanensis* sp. n. y *P. virilai* sp. n. Se proveen detalladas descripciones morfológicas e ilustraciones de las nuevas especies y una clave a machos de las especies conocidas.

**Palabras claves:** Auchenorrhyncha, identificación, morfología, distribución

### Introduction

Species of the dikraneurine microleafhopper genus *Parallaxis* McAtee are widespread and common in the Neotropical region from Mexico to Argentina and have been collected from a variety of plants including several of economic importance, e.g., avocado, bean, and potato (Linnavuori 1954). Until now, 13 species have been described (Linnavuori 1954, Freytag 2001), the largest number from Brazil. Linnavuori (1954) revised the genus and provided a key to species and illustrations of the male genitalia for known species. More recently, Freytag (2001) described two additional species from Central America. In Argentina, four species were previously recorded, *P. donaldsoni*, *P. imitans*, *P. praenubila* and *P. permunda*. In this paper, we describe four new species from Argentina and provide a key to males of the known species.

### Materials and methods

Specimens of the new species were collected with Malaise and mercury vapor light traps in Jujuy, Misiones and Tucumán provinces. For morphological study of the genital structures, clearing was accomplished by immersion of the entire abdomen in a solution of 10% KOH at room temperature for several hours followed by several rinses

## References

- Baker, C. (1903) New Typhlocybini. *Invertebrata Pacifica*, 1, 5–9.
- Catalano, M.I., Paradell, S.L. & Remes Lenicov, A.M.M.de. (2010) Revision of the genus *Rhabdotalebra* (Hemiptera: Cicadellidae: Typhlocybinae: Alebrini) and description of two new species from Argentina. *Zootaxa*, 2601, 53–60.
- Dietrich, C. (2005) Keys to the families of Cicadomorpha and subfamilies and tribes of Cicadellidae (Hemiptera: Auchenorrhyncha). *Florida Entomologist*, 88, 502–517.  
[http://dx.doi.org/10.1653/0015-4040\(2005\)88\[502:kttfoc\]2.0.co;2](http://dx.doi.org/10.1653/0015-4040(2005)88[502:kttfoc]2.0.co;2)
- Freytag, P.H. (2001) Two new species of *Parallaxis* (Homoptera: Cicadellidae) from Central America. *Entomological News*, 112 (2), 135–137.  
<http://dx.doi.org/10.3157/021.122.0504>
- Linnavuori, R. (1954) Contributions to the Neotropical leafhopper fauna of the family Cicadellidae II. *Suomen Hyönteistieteellinen Aikakauskirja*, 20, 124–145.
- McAtee, W.L. (1926) Notes on Neotropical Eupteryginae, with a key to the varieties of *Alebra albostriella* (Homoptera: Jassidae). *Journal of the New York Entomological Society*, 34, 141–175.
- Osborn, H. (1928) Neotropical Homoptera of the Carnegie Museum. Part 6. Report on the subfamily Typhlocybinae, with descriptions of new species. *Annals of Carnegie Museum*, 18, 253–298.
- Ruppel, R.F. & DeLong, D.M. (1953) Three new species of Typhlocybinae leafhoppers from Mexico. *The Ohio Journal of Science*, 53, 181–182.
- Young, D. (1952) A reclassification Western Hemisphere Typhlocybinae (Homoptera, Cicadellidae). *Kansas University Science Bulletin*, 35, 1–217.