A New Genus of Macropsinae (Hemiptera: Cicadellidae) From Madagascar

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Abstract

Paragalboa acuta gen. & sp. n. is described and illustrated from Madagascar. The new genus shows morphological affinities to the Macropsini genus Galboa Distant recorded from Seychelles. A checklist of all known genera of Macropsinae is provided.

Key words: Homoptera, Auchenorrhyncha, Macropsini, morphology, taxonomy

Material and Methods

The specimens were collected using Malaise traps. External characters and genital structures were examined under Olympus SZX12 and Olympus U-DA microscopes. Morphological techniques and terminologies follow Hamilton (1980) and Zhang (1990), the rows of setae on the legs follows Rakitov (1998). Holotype specimen as well as half paratype specimens described in this study are deposited in the California Academy of Sciences, San Francisco, CA (CAS), remaining half paratypes are deposited in the Illinois Natural History Survey, Champaign, USA (INHS).

Nomenclature

This paper and the nomenclatural act it contains have been registered in ZooBank (www.zoobank.org), the official register of the International Commission on Zoological Nomenclature. The LSID (Life Science Identifier) number of the publication is: urn:lsidzoobank.org:pub:C0FD25EF-23A1-4559-BFC1-8203F387030D

Generic Checklist of World Macropsinae

Subgenus Varicopsella (Multispinulosa) Li, Dai and Li is excluded from the list, the status of this subgenus may need more verification.

Asmaropsis Linnavuori
Asmaropsis Linnavuori, 1978: 17
Type species: Asmaropsis troilos Linnavuori, 1978

Galboa Distant
Galboa Distant, 1909: 45
Type species: Galboa typica Distant, 1909

Hephathus Ribaut
Hephathus Ribaut, 1952: 437
Type species: Bythoscopus nemus Herrich-Schäffer, 1835
Macropsella Hamilton
Macropsella Hamilton, 1980: 901
Type species: Macropsis saidora Evans, 1971

Macropsidius Ribaut
Macropsidius Ribaut, 1952: 436
Type species: Pediopsis dispar Fieber, 1868

Macropsis (Macropsis) Lewis
Macropsis Lewis, 1834: 49
Tsavopsis Linnavuori, 1978: 14 [synonymized by Hamilton, 1980: 904]
Type species: Jassus prasinus Boheman, 1852

Macropsis (Neomacropsis) Hamilton
Macropsis (Neomacropsis) Hamilton, 1980: 911
Type species: Pediopsis basalis Van Duzee, 1889

Macropsis (Parapediopsis) Hamilton
Macropsis (Parapediopsis) Hamilton, 1980: 905
Type species: Macropsis benguetensis Merino, 1936

Macropsis (Spinomacropsis) Li
Macropsis (Spinomacropsis) Li et al., 2013: 58
Type species: Macropsis flavovirens Kuoh, 1992

Onopsida (Onopsida) Burmeister
Bythoscopus (Onopsida) Burmeister, 1838: 10 [elevated to genus level by Westwood, 1840: 117]

Zinneca Amyot & Serville, 1843: 579 [synonymized by Hamilton, 1980: 887]
Type species: Cicada flavicollis Linnaeus, 1761

Oncopsis (Parasitades) Singh-Pruthi
Parasitades Singh-Pruthi, 1936: 106 [reduced to subgenus by Hamilton, 1980: 890]
Type species: Parasitades bailey Singh-Pruthi, 1936

Pediopsis (Pediopsis) Hamilton
Pediopsis (Pediopsis) Hamilton, 1980: 894
Type species: Pediopsis garuda Distant, 1916

Pediopsis (Thyia) Hamilton
Pediopsis (Thyia) Hamilton, 1980: 894
Type species: Macropsis thyia Kirkaldy, 1907

Pediopsis Burmeister
Bythoscopus (Pediopsis) Burmeister, 1838: 11 [elevated to genus level by Kirkaldy, 1903: 214]
Type species: Jassus tiliae Germar, 1831

Pediopsoides (Pediopsoides) Matsumura
Pediopsoides Matsumura, 1912: 305
Digitals Liu & Zhang, 2002: 175 [synonymized by Dai & Zhang, 2009: 23]
Type species: Pediopsis formosanus Matsumura, 1912

Pediopsoides (Celopsis) Hamilton
Pediopsoides (Celopsis) Hamilton, 1980: 896
Type species: Macropsis dapitana Merino, 1936

Pediopsoides (Sispecnis) Anufriev
Onopsida (Sispecnis) Anufriev, 1967: 174 [combined by Hamilton, 1980: 897]
Type species: Bythoscopus kogotensis Matsumura, 1912
Paragalboa gen. nov.

(urn:lsid:zoobank.org:act:786ED9BB-64D8-43AF-BEA7-0EE8F3908619)

Type species: Paragalboa acuta sp. n., original designation

Coloration and morphology. Body brown (or green), wedge-shaped. Crown in dorsal view angulate, shorter medially than next to eye. Face width across eyes approximately equal to length; clypeal suture absent; clypeo-loral suture poorly developed; clypellus produced distally, without apical notch; Ocelli white, about 4 times closer to adjacent eyes than to each other. Pronotum declivous anteriorly, almost as wide as the head in dorsal view, with oblique series of elliptical punctuations terminating on posterior margin. Scutellum broadly triangular, longer than pronotum, punctate medially. Forewing with three closed anteapical cells. Hind tibia chaetotaxy PD 12, AD 8, AV 5.
Male genitalia. Male pygofer side slightly higher than long, with ventral process well developed, slender and elongate. Subgenital plates slightly broadened distally with numerous irregularly arranged long fine setae. Aedeagus tubular, shaft slender, bent dorsally, gonopore apical; dorsal apodeme well developed, columnlike. Style slender, slightly broadened pre-apically. Connective small, median anterior lobe well developed between dorsally bent anterolateral arms. Paired dorsal connectives large and well sclerotized.

Distribution. Madagascar.

Etymology. This new genus name is intended to accentuate its morphological similarity to Galboa. Gender: female.

Notes. The long rostrum of Paragalboa resembles that of Galboa and the occurrence of both genera in the Malagasy subregion suggests that they are related. However, Paragalboa is smaller than Galboa, lacks white spots on the forewing veins, has the clypellus produced apically (not notched as in Galboa), and has the female 7th sternite strongly produced rather than concave posteriorly. Until males are described for Galboa, the relationship between these genera will remain uncertain. The male genitalia of Paragalboa resembles those of Ruandopsis, recorded from Africa and the Australian region, and Macropsella, recorded from the Australian region.

Paragalboa acuta sp. nov.  
(Figs. 13–17, 21–27)  
(urn:lsid:zoobank.org:act:D6FB11F1-8BCA-470D-82FA-8BF31937C8A7)
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