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**Revision of the Australo-Papuan genus *Macrolema* Baly (Coleoptera:
Chrysomelidae: Spilopyrinae), with description of a new genus**

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Abstract

The chrysomelid genus *Macrolema* Baly 1861 is revised. 13 species are described including five new: *Macrolema aenescens* (Bowditch 1913), *M. albascutica* **sp. nov.**, *M. atripennis* (Bowditch 1913), *M. dickdaviesi* **sp. nov.**, *M. giya* **sp. nov.**, *M. karimui* **sp. nov.**, *M. longicornis* Jacoby 1895, *M. metallica* (Lea 1922), *M. pulchra* **sp. nov.**, *M. quadrivittata* (Jacoby 1898), *M. submetallica* (Jacoby 1894), *M. ventralis* Lea 1921b, *M. vittata* Baly 1861. *Macrolema vittata* is a senior synonym of *M. marginata* Jacoby 1898 (**syn. nov.**). *Allsortsia* **gen. nov.**, is erected for a species formerly in *Macrolema*, *Allsortsia maculata* (Lea 1922), **comb. nov.** Lectotypes are designated for *Macrolema longicornis*, *M. vittata* and *Macrogonus quadrivittatus*. Keys are provided for identification of the genera of Spilopyrinae and for the species of *Macrolema*. *Macrolema* is confined to the eastern rainforests of Australia (11 species) and highland New Guinea (2 species). Little is known of the biology of the species of *Macrolema* and *Allsortsia*, all of which are relatively rarely collected. A first-instar larva is tentatively ascribed to *Macrolema*.

Key words: fiery leaf beetle, morphology, Australia, New Guinea, taxonomy

Introduction

The chrysomelid subfamily Spilopyrinae (fiery leaf beetles) includes some of the most spectacularly coloured beetles in the world. However the group is relatively poorly known, as it has only recently been recognised and is confined to relatively remote regions of the east coast of Australia, the highlands of New Guinea, New Caledonia and southern South America (Reid 2000).

Macrolema Baly 1861 was erected for a single Australian species which Baly placed in the Crioceridae, at that time poorly circumscribed, including genera from several unrelated subfamilies (Chapuis 1874; Reid 2000). Baly noted some similarity to *Megascelis* Sturm 1826, then also placed in Criocerinae but currently in Eumolpinae (Reid 1995, 2000). Chapuis (1874) suggested the greatest similarity was with *Brachydactyla* Lacordaire 1845 (now *Pseudocrioceris* Pic 1916) which is certainly a criocerine (material examined). *Macrogonus* Jacoby 1894, was erected for a similar curiously structured Australian criocerine, which only differed from *Macrolema* by the strongly produced pronotal lateral margins (see comments in Jacoby and