

## New Cixiidae from Eastern Polynesia: *Oteana* gen.nov. and *Manurevana* gen. nov. (Hemiptera: Fulgoromorpha)

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### Abstract

Two new genera are established to accommodate the cixiid species from the Society, Austral and Cook Islands formerly assigned to the genus *Oliarus* Stål: 1. *Oteana* gen.nov. with the type species *Oteana euphranor* (Fennah) comb.nov. from Tahiti, *Oteana eurynome* (Fennah, 1958) comb. nov.

from Moorea, and *Oteana gemellar* (Fennah, 1958) comb. nov. from Rarotonga (Cook Islands); additionally, ten new *Oteana* species are described from the Society Islands: *Oteana iaorana* sp. nov., *O. tiare* sp. nov., *O. aorai* sp. nov., *O. mato* sp. nov., *O. ata* sp. nov., *O. moana* sp. nov., and *O. pouvana* sp. nov., all from Tahiti, as well as *O. aimeho* sp. nov. from Moorea, *O. omai* sp. nov. from Huahine, and *O. temehani* sp. nov. from Raiatea. 2. *Manurevana* gen. nov. with the type species *Manurevana draconarius* (Fennah, 1958) comb. nov. Notes on their ecology and distribution are given.

**Key words:** taxonomy, Pacific region, radiation

## Introduction

Cixiidae of the tribe Pentastirini have colonized several Pacific island archipelagos. In some cases colonizing lineages have given rise to a considerable number of species as a result of rapid speciation and (adaptive) radiation, e.g., in the Hawaiian (91 species and subspecies) and the Marquesas Islands (18 species) (Giffard 1925, Zimmermann 1948, Fennah 1958, 1973, Hoch & Howarth 1999). Although roughly comparable with these in age and ecological diversity (Craig et al. 2001), the Society, Austral, and Cook Islands appeared to harbour a far lower number of cixiid species. Only 4 species were known: *Oliarus euphranor* Fennah, 1958 from Tahiti, *Oliarus eurynome* Fennah, 1958 from Moorea, *Oliarus gemellar* Fennah, 1958 from the Cook Islands: Rarotonga, and *Oliarus draconarius* Fennah, 1958 from the Austral Islands: Rurutu (Fennah 1958).

All Pentastirini from the central Pacific islands were previously assigned to the (then) worldwide distributed catch-all genus *Oliarus* Stål, 1862. Already in 1958, Fennah stated: “As defined at present, it includes an easily recognized group of insects, but which is by no means homogenous, and which falls into species-groups which are more or less distinct from one another” (Fennah 1958: 123). Subsequently, various authors, e.g., Van Stalle (1986 a-c), Emeljanov (2001a, b) erected several genera to better reflect this heterogeneity. Many species, however, including most of the central Pacific island Pentastirini, remained in *Oliarus*, with the exception of the Hawaiian species for which Holzinger et al. (2002) resurrected *Nesoliarus* Kirkaldy, 1909.

In a recent publication (Hoch 2005) the genus *Oliarus* was re-defined based on the examination of the type species, *Oliarus walkeri* (Stål, 1859).

Recent research in the field and the examination of existing collections revealed:

1. the pentastirine diversity at least in the Society Islands is far higher than previously assumed: in addition to the 2 known species from the Society Islands, 10 new species are described below: 7 from Tahiti, 1 from Moorea, 1 from Huahine, and 1 from Raiatea.

2. None of the species from the Society, Cook, and Austral Islands belong to *Oliarus* s.str. Instead, they are representatives of two distinct morphological groups, neither of which can be placed into any of the existing pentastirine genera.

Therefore, two new genera are established: *Oteana* gen. nov. to accommodate the