

***Lipaleyrodes emiliae*, a new species of whitefly (Hemiptera: Aleyrodidae) from Taiwan and Hong Kong**

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Abstract

The adult male, female, immature stages, and egg of a new species of whitefly, *Lipaleyrodes emiliae*, are described from Taiwan and Hong Kong. The species has been found commonly on *Emilia sonchifolia* (Asteraceae). Scanning electron micrographs, photographs and drawings are included with descriptions of immature stages and adults. The immatures and adults of *L. emiliae* are compared with those of *Bemisia tabaci*.

Key words. Hemiptera, Aleyrodidae, *Lipaleyrodes*, Taxonomy, new species, Taiwan

Introduction

This paper describes all life stages of a new species of Aleyrodidae that is widely distributed in Taiwan and has also been found in Hong Kong. The species appears to have restricted host associations, having been found feeding only on Asteraceae, especially *Emilia sonchifolia*. A detailed study of the structural features of the immature stages and adults indicated that this species is a member of the genus *Lipaleyrodes* Takahashi, and it is therefore described as *Lipaleyrodes emiliae*. Details of the egg, immatures and adult are presented in this paper, with scanning electron micrographs and figures. A comparison is made of the pupal cases and adults of this new species with others in the genus. *Lipaleyrodes* currently includes 8 described species: *L. breyniae* (Singh), *L. crossandrae* David & Subramaniam, *L. euphoribiae* David & Subramaniam, *L. veroniae* David & Thenmozhi, *L. hargreavesi* (Corbett), *L. phyllanthi* Takahashi, *L. atriplex* (Froggatt), and *L. leguminicola* (Takahashi) (Mound & Halsey 1978; David & Thenmozhi 1995; Martin 1999).