



## Taxonomic study of Chinese species of the genus *Macropsis* Lewis, 1836 (Hemiptera: Cicadellidae: Macropsinae) III: a review of oak-dwelling species

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### Abstract

The group of Chinese *Macropsis* species dwelling on oak (*Quercus* spp.) is reviewed and nine species are recognized. Among them, three new species, *Macropsis huangbana* sp. nov. from Shaanxi and Yunnan Provinces, *M. latiprocessa* sp. nov. from Guizhou Province and *M. longiprocessa* sp. nov. from Yunnan Province, are described and illustrated; *M. irenae* Viraktamath, 1981 (= *M. irrorata* Tishechkin, 2002, nec Matsumura, 1912) is recorded from China and Japan for the first time; *M. meifengensis* Huang & Viraktamath, 1993 and *M. jozankeana* (Matsumura, 1912) are redescribed based on examination of specimens from mainland China and adjacent territories of Russia respectively; translation of the original description of *M. rubrosternalis* Kuoh, 1992 from Chinese is provided, also a key to species of Oak-dwelling *Macropsis* from China is present.

**Key words:** Auchenorrhyncha, Cicadellidae, *Macropsis*, morphology, distribution, taxonomy, parthenogenesis, China

### Introduction

The species of the leafhopper genus *Macropsis* are oligophagous or monophagous. Palaearctic representatives of the genus mostly feed on trees and shrubs of the families Salicaceae (*Salix*, *Populus*), Rosaceae (*Rosa*, *Rubus*, *Spiraea*), Elaeagnaceae (*Elaeagnus*, *Hippophae*), Ulmaceae (*Ulmus*) and Berberidaceae (*Berberis*). In the Eastern Palaearctic and adjacent parts of the Oriental Region, there is a group of species dwelling on oaks (Fagaceae: *Quercus*) that share some common, presumably synapomorphic, morphological features, suggesting that they are closely related.

Continuing our taxonomic study of Chinese species of the genus *Macropsis* (Li *et al.* 2012a, 2012b, 2013), in the present article we review a group of *Macropsis* species dwelling on oaks. Presently, nine species from this group are known in China: three new species, *Macropsis huangbana* sp. nov. from Shaanxi and Yunnan Provinces, *M. latiprocessa* sp. nov. from Guizhou Province and *M. longiprocessa* sp. nov. from Yunnan Province, are described and illustrated; *M. irenae* Viraktamath, 1981 (= *M. irrorata* Tishechkin, 2002, nec Matsumura, 1912) is recorded from China and Japan for the first time; *M. meifengensis* Huang & Viraktamath, 1993 and *M. jozankeana* (Matsumura, 1912) are redescribed based on examination of specimens from mainland China and adjacent territories of Russia respectively (although no specimens of the latter were collected within Chinese territory, it is likely to be distributed in China because of its occurrence on the border of China); translation of the original description of *M. rubrosternalis* Kuoh, 1992 from Chinese is provided, and a key to species of oak-dwelling *Macropsis* from China is given.

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