



<http://dx.doi.org/10.11646/zootaxa.4058.3.9>

<http://zoobank.org/urn:lsid:zoobank.org:pub:0A0957C9-949C-48D3-9F14-B3C35B238D66>

## Two new species in the leafhopper genus *Pythamus* Melichar (Hemiptera: Cicadellidae: Evacanthinae) from China

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### Abstract

Two new leafhopper species, *Pythamus hainanensis* sp. nov. and *Pythamus rufus* sp. nov. from China, are described and illustrated. Their diagnostic characteristics are compared with similar species. One new combination, *Riseveinus chiabaotawow* (Huang, 1992) n. comb., is also proposed. In addition, *P. biramosus* and *P. bispinosus* are illustrated based on paratypes. A key to known species of *Pythamus* is provided, excluding three species for which placement cannot presently be confirmed.

**Key words:** Homoptera, Auchenorrhyncha, Evacanthini, taxonomy, morphology

### Introduction

The leafhopper subfamily Evacanthinae was redefined by Dietrich (2004), who included the tribes Evacanthini, Nirvanini, Balbillini and Pagaroniini in this subfamily. Recently, new genera and species of Evacanthini were reported from China, Thailand and the Indo-Malayan region (Wang *et al.*, 2013; Xing & Li, 2013; Li & Li, 2014a, 2014b; Wei *et al.*, 2014; Wang & Zhang, 2014a, 2014b; Li & Li, 2015; Wang *et al.*, 2015).

The genus *Pythamus* was established by Melichar (1903) with *Pythamus dealbatus* Melichar, 1903 as its type species. Subsequently, *P. melichari* Baker, 1915, *P. productus* Baker, 1923 and *P. decoratus* Baker, 1923 were added from the Indo-Malayan region. Huang (1992) reported a species *P. chiabaotawow* from Taiwan. Li & Webb (1996) reported another species *P. vietnama* from Vietnam based on two female specimens. More recently, *Pythamus* Melichar was redefined by Viraktamath & Webb (2007) with description of three new species, and the genus *Dussana* Distant (type species: *D. quaerenda* Distant) was treated as a junior synonym of *Pythamus*. Wei *et al.* (2014) removed *P. melichari* Baker, 1915 to *Pythochandra* Wei & Webb, but the placement of *P. productus* Baker and *P. decoratus* Baker is still uncertain. In this study, two new species are described and illustrated from China, and one new combination is also proposed. A key to known species of *Pythamus* is also provided.

### Material and methods

The specimens of new species were previously preserved in alcohol and subsequently pasted on small triangular paper; others were directly pasted on small paper triangles. External morphology was observed using an Olympus BX 41 microscope. The male genitalia were treated with 10% NaOH solution at 100°C for several minutes, rinsed with water, immersed in a droplet of glycerol and dissected following standard procedures. They were observed under a compound light microscope (Nikon Eclipse 50i). Photos were taken using a Scientific Digital Micrography System equipped with an Auto-montage imaging system and a QIMAGING Retiga 4000R digital camera (CCD). Morphological terminology follows Dietrich (2004, 2005). Material examined is deposited in the following institutions and abbreviations used in the text are as follows: