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A new leafhopper genus and two new species of the tribe Scaphytopiini (Hemiptera: Cicadellidae: Deltocephalinae) from China

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Abstract

New leafhopper taxa in the deltocephaline tribe Scaphytopiini Oman are described: *Xenovarta lui* **sp. n.**, and a new genus and species *Aparaphysis lushuiensis*, **gen. n., sp. n.** from China. Detailed morphological descriptions and illustrations of the new genus and species are given. A checklist to genera of Scaphytopiini is provided.

Key words: Homoptera, Auchenorrhyncha, morphology, taxonomy, new genus, new species

Introduction

The tribe Scaphytopiini Oman is a small group of deltocephaline leafhoppers distributed worldwide. Several species of *Scaphytopius* Ball are vectors of aster yellows and *S. magdalensis* (Provancher), the blueberry leafhopper, is a vector of blueberry stunt in northeastern North America. The tribe, when reviewed by Webb & Godoy (1993), contained 9 genera and 5 subgenera. Later, new genera were added by Viraktamath & Anantha Murthy (1999), Viraktamath (2004) and Viraktamath & Webb (2006). Until now, 21 genera with 151 species were known worldwide, including 10 monotypic genera. Among them, 6 genera and 15 species are known in China (Viraktamath, 2004; Dai *et al.*, 2006; Viraktamath & Webb, 2006; Xing, Dai & Li, 2008, 2010, 2011; Duan & Zhang, 2010).

In this work, new taxa of Scaphytopiini are described including a new species of *Xenovarta* Viraktamath and a new genus with a new species. Type specimens are deposited in the Entomological Museum of Northwest A&F University (NWAUFU). Morphological terminology follows Oman (1949) and Zhang (1990).

Taxonomy

Scaphytopiini

Scaphytopiini Oman, 1943: 16. Type genus: *Scaphytopius* Ball, 1931.

Remarks. Scaphytopiini can be recognized by the gena not incised and visible behind the eye in dorsal view (except *Proceps* Mulsant & Rey, 1855, also included in the tribe by Dmitriev (2002) based on nymphal characters) (Plate I: C). In addition, the following characters are present in this tribe but are not universal or unique: long pointed head; elongate and narrow frontoclypeus; forewing with vermiculate pattern and/or reflexed costal veins; aedeagus disassociated from connective with paired (sometimes fused) pseudostyles and paired gonopores.

Scaphytopiini is usually characterized by the gena not incised and visible behind the eye in dorsal view. However, this character has probably arisen several times independently. Phylogenetic analyses of Deltocephalinae