



## The Deltocephalinae leafhoppers of Pakistan (Hemiptera, Cicadellidae)

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### Abstract

The deltocephaline leafhoppers (Hemiptera: Cicadellidae) of Pakistan are reviewed and a key to tribes and a checklist is provided. Two new species are described: *Bampurius pakistanicus* **sp. nov.** and *Neolimnus quadricornis* **sp. nov.** 16 new synonymies and four new combinations are proposed and a total of 31 genera and 57 species are recorded.

**Key words:** Auchenorrhyncha, morphology, taxonomy, new species, new records

### Introduction

Deltocephalinae (Cicadellidae) (sensu Oman *et al.*, 1990) is the largest leafhopper subfamily with nearly 800 genera and over 6500 species found in all geographical regions (Zahniser & Dietrich, 2008). The group is a major constituent of grass and forest ecosystems and, as plant sap feeders, includes important pests of crops, causing damage by both direct feeding and by transmitting plant pathogens.

Information on the taxonomy of the Deltocephalinae of Pakistan is limited mainly to various small publications, particularly on Deltocephalinae from grasses. In addition, a review of past work and descriptions of several species were included in a 'Technical report' by Mahmood (1979) and the list it contains of all cicadellids from Pakistan and India was subsequently published by Mahmood (1980). Lastly, a Ph.D. thesis on