



## On the exact position of the tribe Incolacridini in the modern classification of grasshoppers (Orthoptera: Acrididae)

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### Abstract

Incolacridinae is considered as a separate subfamily, not as a tribe of subfamily Catantopinae. It consists of four genera: *Incolacris* C. Willemse, 1932, **stat. resurr.**, *Stolzia* C. Willemse, 1930, *Bettotania* C. Willemse, 1933, and *Asymmetritania* **gen. nov.** (type species: *Stolzia vietnamensis* Storozhenko, 2020). New combinations are proposed: *Incolacris jianfengensis* (Zheng et Ma, 1989), **comb. nov.**, *Asymmetritania asymmetrica* (Ingrisch, 1989), **comb. nov.**, and *A. vietnamensis* (Storozhenko, 2020), **comb. nov.** The diagnosis of subfamily and genera, a key to genera and an annotated list of the species of Incolacridinae are also given.

**Key words:** Orthoptera, grasshoppers, Acrididae, Incolacridinae, taxonomy, new genus, key, new combinations, Oriental region

### Introduction

A grasshopper group Incolacri was proposed for the genus *Incolacris* C. Willemse, 1932 in the subfamily Cyrtacanthacridinae by Tinkham (1940). Nowadays it is considered as a tribe Incolacridini of the subfamily Catantopinae (Storozhenko, 2018; Cigliano *et al.*, 2021). Totally 18 species in five genera has been described from the Oriental region (C. Willemse, 1930, 1932, 1933; Miller, 1935a; C. Willemse, 1938, 1939; Tinkham, 1940; C. Willemse, 1956; F. Willemse, 1963; Ingrisch, 1989; Zheng & Ma, 1989; Storozhenko, 2020a), of them genus *Paracelebesia* Miller, 1935 was synonymized with *Bettotania* by C. Willemse (1956) and two genera, *Incolacris* and *Butonacris* C. Willemse, 1933, were synonymized with *Stolzia* C. Willemse, 1930 by Hollis (1975). *Stolzia* has been placed in the subfamily Oxyiinae (Hollis, 1975) but later it was considered as a genus of the subfamily Catantopinae among the genera of uncertain position (Otte, 1995). Nowadays *Stolzia* is transferred to the tribe Incolacridini (Storozhenko, 2018). *Bettotania* was considered as a genus of uncertain position in the subfamily Catantopinae (Otte, 1995; Cigliano *et al.*, 2021) but sometimes (Storozhenko, 1998) it was placed the tribe Trauliini (= Mesambriini *sensu* Storozhenko, 2018, 2020b). Herein Incolacridinae is considered as a separate subfamily differs from both Oxyiinae and Catantopinae, the genus *Incolacris* is resurrected from synonymy with *Stolzia*, and a new genus is established for two species from South-East Asia.

### Material and methods

This paper is based on the collections of the Zoological Institute of the Russian Academy of Sciences, St. Petersburg and the Federal Scientific Center of the East Asia Terrestrial Biodiversity, Vladivostok, as well as on the critical analysis of published data and the images of type specimens preparing by S. Ingrisch and D. Otte and available in the Orthoptera Species File database (Cigliano *et al.*, 2021).

The type specimens of Incolacridini are deposited in follow collections: **BMNH** London—British Museum of Natural History, London, United Kingdom; **ICRI** Zhongshan = Research Institute of Entomology, Zhongshan University, Guangzhou, China; **MfN** Berlin—Museum für Naturkunde Leibniz-Institut, Berlin, Germany; **NBC**