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A taxonomic study of the genus *Bagdadia* Amsel, 1949 from Hainan Island of China (Lepidoptera: Gelechiidae)

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Abstract

Five species of the genus *Bagdadia* Amsel are recognized from Hainan Island of China in this paper, of these, *Bagdadia khaoensis* (Park & Ponomarenko) **comb. nov.** is proposed, and it is reported for the first time from this country. One new species, *Bagdadia tricornis* **sp. nov.** is described and one possibly new species is discussed but not formally named for lack of material. Adults and genitalia of the new and the unnamed species are illustrated and a key to known species of the genus from China is provided.

Key words: Lepidoptera, Gelechiidae, *Bagdadia*, new species, new record, Hainan Island, China

Introduction

Bagdadia was established by Amsel (1949) with *Bagdadia irakella* Amsel, 1949 as its type species, and was placed in the family Scythri[d]idae. Because its original description was accompanied by an inaccurate drawing of wing venation and a wrong illustration of male genitalia, *Bagdadia* has remained monotypic for a long time. Sattler (1973) transferred the genus to Gelechiidae.

Park (1995) proposed the new genus *Capidentalina* based on *Hyatima claviformis* Park, 1993, and regarded the crown-shaped uncus in male genitalia as the most distinct character. Subsequently, Ponomarenko (1995), Li & Zheng (1998), Park & Ponomarenko (1999) reported the genus from Russia, the mainland of China and Thailand respectively.

Sattler (1999) treated *Capidentalina* as a junior synonym of *Bagdadia* after examining the type species, redescribed the genus and established 11 new combinations. Recently, some authors supported this opinion (Ponomarenko 2004, Park & Ponomarenko 2006, 2007; Ueda 2010). This paper also follows Sattler's opinion and proposes one new combination: *Bagdadia khaoensis* (Park & Ponomarenko) **comb. nov.**

Up to date, 14 species have been recorded in this genus, most of which are distributed in the Palaearctic and Oriental regions, only one species has been reported to occur in South Africa. In China, six species have been recorded, including one species in Taiwan (Park 1995; Li & Zheng 1998; Li 2002).

Hainan Province is located in the southernmost part of China. The main island is Hainan Island, which is the second largest island in China. Prior to this study, no species of the genus *Bagdadia* Amsel have been recorded from Hainan Island. In this paper, five *Bagdadia* species are recognized from Hainan Island, including one new and one unnamed species.

All the specimens studied, including the type specimens are deposited in the Insect Collection, College of Life Sciences, Nankai University, Tianjin, China.

Key to the species of the genus *Bagdadia* from China based on the male genitalia (females are known only for some species)

1. Valvae asymmetrical 2