

A New Species of *Torodora* Meyrick (Lepidoptera, Lecithoceridae) from Taiwan

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대만産 Lecithoceridae 1 신종 기재

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ABSTRACT : A new species of *Torodora* Meyrick, *T. pseudogalera* sp. nov. is described from Taiwan. Photos of adult and the male and female genitalia are provided.

KEY WORDS : Systematics, Description, Lecithocerinae, *Torodora*

초 록 : Lecithoceridae의 1 신종, *Torodora pseudogalera* sp. Nov.을 대만으로부터 발견, 성충 및 암수생식기의 도해와 함께 기재 발표한다.

검색어 : 분류, 신종기재, Lecithocerinae아과, *Torodora*속

Introduction

Since the lecithocerid fauna of Taiwan, was enumerated with 67 species belonging to 16 genera by Park and Wang (2000), Park (2003) recently described three additional species and reported a species for the first time from Taiwan. Consequently, 71 species of the Lecithoceridae are known from Taiwan. The new species, *T. pseudogalera* sp. nov. is very similar to *T. galera* Wu and Liu, which was described from China, in the superficial and male genital characteristics. Park (2000) noted that the size of the Taiwanese specimens is slightly larger than the type of *T. galera* and he identified it as conspecific to the latter, referring the differences seems to be infraspecific variation. However, author found some separable differences in the male genitalia between them

and describe it as a new species. I am indebted to Dr. J. Brown, Department of Systematic Biology, Smithsonian Institution, Washington D.C. for the loan of specimens from the USNM collection.

Description

Torodora pseudogalera sp. nov.

Torodora galera Wu et Liu, 1994: sensu Park, 2000: 6, fig. 1-A, B, C.

Diagnosis. This new species is similar to *T. galera* Wu et Liu in the superficial and male genital characteristics. Generally it is larger than the latter, and the male genitalia have some differences: cucullus triangular, sharply pointed at lower apex and not very convex on

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Fig. 1. Adult of *T. pseudogalera* sp. nov. (female paratype).

outer margin; juxta with slender, digitate lateral lobes and convex on anterior margin at middle, whereas the lateral lobes atrophied and emarginate on anterior margin at middle in *T. galera*.

Description. Wingspan, 24-29 mm. Head dark brown, with grayish orange erect scales laterally. Thorax and tegula dark brown. Scape of antenna grayish orange, with longitudinal brown band on dorsal and ventral surfaces; flagellum grayish orange, with short cilia ventrally. Second segment of labial palpus thickened, dark brown on outer surface, paler on inner surface; 3rd



Figs. 2-3. Male genitalia: 2), *T. pseudogalera* sp. nov.; 2a), ditto, right valva; 2b), ditto, lateral aspect of aedeagus; 2c), ditto, ventral aspect of aedeagus; 2d), 8th sternite of abdomen of *T. pseudogalera* sp. nov.; 3), *T. galera* Wu and Liu; 3a), ditto, aedeagus.

segment slender, as long as 2nd, dark brown ventrally. Forewing grayish brown to dark brown evenly; costa almost straight, with pale orange costal patch at 2/3; postmedian line convex outwardly, very weak, but visible; apex obtuse; termen almost straight; fringe concolorous at basal 2/3 and pale orange at apical 1/3 along termen; R_3 stalked with R_{4+5} at 1/3; R_4 and R_5 stalked at about 2/3, R_5 to termen; M_2 and M_3 connate at base, almost parallel; CuA_1 and CuA_2 stalked from basal 1/4. Hind wing pale grayish brown, broader than forewing; M_3 and CuA_1 stalked at basal 1/3; fringe concolorous, Hind tibia thickened, dark brown outwardly, with yellowish white apex.

Male genitalia (Fig. 2, 2a-e). Similar to those of *T. galera* Wu et Liu (Fig. 3, 3a), but differ from the latter by followings: cucullus triangular with sharply acuted lower apex, whereas convex on outer margin and lower apex not so much acuted in *T. galera*; juxta with digitate lateral lobes and convex on anterior margin at middle, but the lateral lobes atrophied and emarginate on anterior margin at middle. Uncus relatively long, opened at basal 2/5 on ventral surface, bent preapically. Gnathos slender, bent beyond 2/3. Valva extremely broad at 1/2 length, then narrowed, forming a neck before cucullus; cucullus triangular with sharply pointed lower apex; outer margin slightly concave with small protrusions, but these condition variable within species. Juxta with digitate lateral lobes; caudal margin heavily sclerotized, slightly concave; convex on anterior margin at middle. Aedeagus broad at base, gradually narrower towards apex, bent at near 1/4 and 3/4 ventrally, slightly shorter than valva; cornuti consist of two rows of brush-like setae. No difference between this species and *T. galera* is observed in the aedeagus.

Female genitalia (Fig. 4). Eighth sternite heavily emarginate at middle. Apophyses anteriores about 2/5 length of apophyses posteriores. Ostium wide, weakly sclerotized. Antrum long, elongated to middle; anterior half broadened and swollen with sclerotized plates internally; ductus seminalis arising from middle of ductus bursae. Corpus bursae ovate, about 1/2 length of ductus bursae, surface with wrinkles; signum strawberry-shaped, with strong thorns caudal surface and smaller ones along



Fig. 4. Female genitalia of *T. pseudogalera* sp. nov.

margin and ventral surface.

Type. Holotype: male, Upper Palin 2,250 m, Ilan Co., 11-12 VII 1976 (KT Park and JS Lee), gen. prep. no. 4191/Park; Paratype: 1 male, same data as the holotype; 1 male, 1 female, Mei-feng, 30 km S. Tayuling, 2200 m, Nantou Co., 1-8 June 1980 (D. R. Davis), gen. prep. no. USNM-92455 (female), 92456 (male).

Distribution. Taiwan

Remark. Park (2000) previously identified this Taiwanese species to be conspecific with *T. galera* Wu et Liu, which was described from Fujian, China. For my inquiry to compare these two species by the male genitalia, Wu (pers. comm.) answered that there are some considerable differences and sent its male genital slide (W88079) to be compared.

Literature Cited

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