



## New records of *Porcellanola* László, Ronkay & Witt, 2006 (Lepidoptera, Nolidae, Nolinae) from China, with description of a new species

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### *Porcellanola gaofengensis* Hu, Wang & Han sp. nov.

(Figs 1, 2, 7, 10)

**Materials Examined.** Holotype. Male, Gaofeng, Lufeng, Yunnan, 2,230 m, 4.VIII.2013, Min Wang, Hailing Zhuang & Yu Wang (SCAU). Paratypes. 3 males & 1 female, Gaofeng, Lufeng, Yunnan, 2,230 m, 5.VIII.2013, Min Wang, Hailing Zhuang & Yu Wang (SCAU); 1 male, Midu, Yunnan, 2,340 m, 27.VII.2013, Min Wang, Hailing Zhuang & Zhenfu Huang (SCAU); 1 male, Jiangcheng, Yunnan, 15–17.IX.2008, Huilin Han & Mujie Qi (NEFU). The type specimens are deposited in the collection of South China Agricultural University, Guangzhou, China (SCAU) and Northeast Forestry University, Harbin, China (NEFU).

**Diagnosis.** *Porcellanola gaofengensis* is barely distinguished from *P. minna* and *P. chakri* on external feature, except a triangular spot filled with metallic-blueish color at base of forewing and a relatively big subterminal area of forewing in *P. gaofengensis*. In male genitalia, *P. gaofengensis* has a triangular juxta with the serrated margin and aedeagus with the serrated processus, while juxta huge with the two long and slender arms on either side and aedeagus without any processus in *P. chakri* and *P. minna*.

**Description.** Adult (Figs 1 & 2). Wingspan 14–16 mm. Head white; antennae brown except white at basal part, filiform, with a row of short hairs on one side; labial palpi short, inside gray and outside brown. Thorax grayish white. Abdomen brown and white. Forewing ground color white; a metallic-blueish spot with the black margin at base; antemedial and medial lines shape the triangular spot filled with a little metallic-blueish color before cell; postmedial line black, the front part shapes the circle with the counterpart of medial line before  $M_3$ , then straight line to  $Cu_2$  and arc-shaped line to inner margin; subterminal line black and wavy, more running to terminal line; terminal line faint and black; terminal area narrow, reddish brown; subterminal area relatively big, grayish black; cilia blackish brown. Hind wing ground color gray; veins highlighted. Male genitalia (Fig 7): Uncus long and narrow, apically hook shaped; tegumen relatively narrow, almost as long as uncus; valva flat and broad, tongue-shaped, with many hairs; costal margin sclerotized; sacculus long and rectangular, processus schistose; harpe short and finger-shaped; juxta triangular and sclerotized, with the serrated margin; saccus small and U-shaped. Aedeagus cylindrical, with a row of triangular protrusions at front; vesica without cornuti. Female genitalia (Fig 10): Papillae anales conical; apophyses posteriores medium-long, well developed; apophyses anteriores very short; ostium rather broad, infundibular, strongly sclerotized; ductus bursae very short, membranous; corpus bursae large, elliptical-ovoid, membranous, without stigma.

**Distribution.** China (Yunnan).

**Etymology.** The specific name is derived from the type-locality, Gaofeng.

### ***Porcellanola thai* László, Ronkay & Witt, 2006**

(Figs 3, 4, 8, 11)

*Porcellanola thai* László, Ronkay & Witt, 2006: 274. Type-locality: N Thailand, Mae Hong Son.

**Materials examined.** 8 males & 3 females, Mojiang, Yunnan, 18–19.IX.2008, Huilin Han & Ying Wang (NEFU); 1 male & 1 female, Simao, Yunnan, 11.IX.2008, Huilin Han & Ying Wang (NEFU); 2 males, Nanling, Guangdong, 17.V.2005 (SCAU); 1 male, Jianfengling, Hainan, 29.XI.2003, Min Wang (SCAU); 1 male, Jianfengling, Hainan, 23.XI.2011, Wentang Wang & Houshuai Wang (SCAU); 3 males, Jianfengling, Hainan, 30.XI.2011, Wentang Wang & Houshuai Wang (SCAU); 1 male, Jianfengling, Hainan, 29.XI.2011, Wentang Wang & Houshuai Wang (SCAU); 1 female, Tianchi, Jianfengling, Hainan, 29.XI.2011, Wentang Wang & Houshuai Wang (SCAU).

**Diagnosis.** *Porcellanola thai* resembles closely of *P. sukhothai* on external feature, but their male genitalia show remarkable differences: *P. thai* has a longer and claw-shaped harpe, a relatively wider sacculus, while harpe finger-shaped and sacculus narrower in *P. sukhothai*.

**Distribution.** China (Guangdong, Yunnan, Hainan), Thailand.

### ***Porcellanola langtangi* László, Ronkay & Witt, 2010**

(Figs 5, 6, 9, 12)

*Porcellanola langtangi* László, Ronkay & Witt, 2010: 22. Type-locality: Nepal, Langtang.

**Materials examined.** 3 males, Jinghong, Yunnan, 12–13.IX.2008, Huilin Han & Ying Wang (NEFU); 3 males, Jiangcheng, Yunnan, 15–17.IX.2008, Huilin Han & Mujie Qi (NEFU); 6 males & 1 female, Mojiang, Yunnan, 18–19.IX.2008, Huilin Han & Ying Wang (NEFU); 1 male, Yipinglang, Lufeng, Yunnan, 1,800 m, 2.VII.2013, Min Wang, Hailing Zhuang & Zhenfu Huang (SCAU).

**Diagnosis.** *Porcellanola langtangi* is externally very similar to *P. ayutthaya*, but can be readily distinguished by the male genitalia: *P. langtangi* has a much broad valva, a long and apically pointed harpe, a narrow sacculus, a remarkable juxta and a long and narrow aedeagus compared with *P. ayutthaya*. In female genitalia, *P. langtangi* has a wide ostium, a narrow ductus bursae and a small corpus bursae compared with *P. ayutthaya*.

**Distribution.** China (Yunnan), Nepal.

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