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A New Species of *Trichogramma* (Hymenoptera: Trichogrammatidae)

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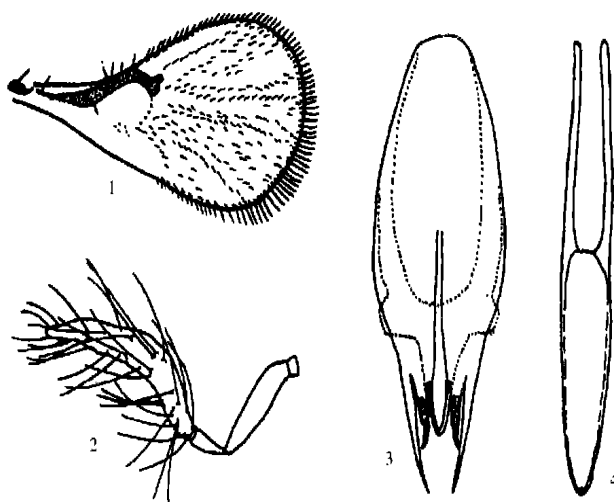
Abstract: A new species of the genus *Trichogramma* Westwood collected in the egg of the diamondback moth, *Plutella xylostella* L., in Shenzhen, Guangdong Province was recorded in the paper. All the type specimens are deposited in the Laboratory of Insect Ecology, South China Agricultural University.

Key words: Hymenoptera; Trichogrammatidae; *Trichogramma*; new species; China

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Trichogramma bilingensis He et Pang, sp. nov. (Figs. 1)



1 forewing of male; 2 antenna of male; 3. genitalia; 4. aedeagus

Fig. 1 *Trichogramma bilingensis*, sp. nov.

Male: Yellowish brown with brown pronotum and dark brown abdomen. The longest antennal hairs 2.5 times the maximum width of flagellum. Fore wing comparatively broad, fringes on tornus of forewing about $1/6$ the width of wing. Genitalia is nearly long oviformed. Dorsal expansion of gonobase highly sclerotized, triangular, with comparatively broad and prominent lateral lobes, the outer margin of which a little bit curve towards venter, and round posterior extremity extending to $1/2$ of D (length between the base of median ventral projection and the apex of gonofor-

ceps). Median ventral projection (MVP) broad triangular with slightly rounded apex, the length of which nearly $1/2$ of D. Median sclerotized ridge paired, extending anteriorly to $1/2$ of gonobase. Chelate structures (cs) extending to about $5/8$ of D. Aedeagus slightly longer than apodemes, both together slightly longer than gonobase and shorter than hind tibia.

Female: Yellow with dark brown abdomen, ovipositor broad. Longer than hind tibia (about 1.2 times length of hind tibia).

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Biography: HE Yu-rong (1963-), female, Lecturer.

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Holotype 1 ♂ and paratypes 5 ♂♂ and ♀♀ on slides all from Longgang, Shenzhen, Guangdong Province, ex eggs of *Plutella xylostella* (L.), 1996—XI—20 coll. (HE Yu-rong).

Host: *Plutella xylostella* (L.).

Distribution: Guangdong (Shenzhen).

Remarks: *Trichogramma bilingensis* He et Pang, sp. nov. is similar to *T. confusum* Viggiani (= *T. chilonis* Nagarkatti and Nagaraja nec. Ishii.) in size, shape and color but it can be distinguished from the latter by its prominent and slightly curved lateral lobes of dorsal expansion of gonobase. The difference from *T. closterae* Pang et Chen lays in its median ventral projection that is slightly rounded at apex and almost as long as middle lobes of gonobase. Under 28 °C, *T. bilingensis* is yellowish brown, but *T. confusum* yellow. Cross test between *T.*

bilingensis and *T. confusum* proves that no female progeny can be produced in both directions, therefore they are different species.

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赤眼蜂属一新种记述(膜翅目: 赤眼蜂科)

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摘要: 记述膜翅目赤眼蜂科赤眼蜂属 1 新种. 即碧岭赤眼蜂 *Trichogramma bilingensis* sp. nov.. 模式标本装玻片保存于华南农业大学昆虫生态研究室. 该新种与拟澳洲赤眼蜂 *Trichogramma confusum* Viggiani (= 螟黄赤眼蜂 *T. chilonis* Nagarkatti and Nagaraja nec. Ishii) 近似, 但可由其宽大超过半圆的阳基背突侧叶区别. 与舟蛾赤眼蜂 *T. closterae* Pang et Chen 的区别在于本种的腹中突与阳基背突末端基本齐平, 其两缘略呈弧形, 端部稍钝, 而舟蛾赤眼蜂的腹中突两侧呈直线, 端部尖锐成锐三角形. 正模: ♂, 广东深圳, 寄生于小菜蛾 (*Plutella xylostella* L.) 卵. 何余容采; 副模: 5 ♂♂, ♀♀, 所有标本均装玻片, 采集记录同正模.

关键词: 膜翅目; 赤眼蜂科; 赤眼蜂属; 新种; 中国

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