NEW SPECIES OF THE GENUS EXECHIA WINNERTZ FROM CHINA (DIPTERA, MYCETOPHILIDAE)

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Abstract Five species of Exechia Winnertz from China are recorded in this paper, of which 4 species are described and 1 species is reported for the first time from China.

Key words Diptera, Mycetophilidae, Exechiini, Exechia, new species.

Five species of the genus Exechia Winnertz have been reported from China up to date. Four new species and one newly recorded species are added in the genus in this paper. The type specimens are deposited in Zhejiang Forestry College, China.

1 Exechia atridonta sp. nov. (Figs. 1-2)

♂. Wing length 2.2-2.5 mm. Head blackish brown. Antennae brown, with scape, pedicel and base of 1st flagellum yellow; 1.1 times as long as head and thorax; flagellar segment 1.3 times as long as wide. Pronotum and mesoscutum brown. Pleura and mediotergite brown. Wing clear brownish yellow. Cross vein r-m 1.7 times as long as m-stalk. Halter yellow. Legs brownish yellow. Fore metatarsus 1.2 times as long as tibia. Middle metatarsus subequal to tibia. Middle tibia with 26-32 a, 2 p-v, 5 p, 3 p-d. Hind tibia with 7 a, 3-6 p, 4-5 p-d. Abdominal tergites dark brown, with sides of tergites 2-4 broad and yellow. Stermites 1-3 yellow, sternites 4-6 brown.

Holotype ♂, paratype 1 ♂, Maoershan (25°55’ N, 110°25’ E), Guangxi, 19 Aug. 1992, collected by YANG Chi-Kun, Nos. 920286, 920216.

Remarks. This species is somewhat similar to Exechia sororcula Lackschewitz, 1937 from Europe, but differs in length of the wing shorter than 2.5 mm, and different structure of gonocoxites and gonostylus.

2 Exechia hebetata sp. nov. (Figs. 3-5)

♂. Wing length 2.8 mm. Head black brown. Antennae brownish yellow, subequal to combined length of head and thorax; flagellar segment 1.2 times as long as broad. Pronotum dark brown. Mesoscutum black brown, with sides and humeral angles brownish yellow. Pleura and mediotergite brown. Wing clear brownish yellow. Cross vein r-m 3.3 times as long as m-stalk. Halter brownish yellow. Legs yellow. Fore metatarsus 1.1 times as long as tibia. Middle metatarsus 0.9 times as long as tibia. Middle tibia with 28 a, 6 p-v, 12 p, 5 p-d. Hind tibia with 12 a, 6 p, 8 p-d. Abdominal tergites dark brown, with sides of tergites 2-3 yellowish brown. Stermites 1-3 yellow wish brown, sternites 4-6 dark brown.

♀. Wing length 3.3 mm. Coloration same as in the male.

Holotype ♂, Anji County, Longwangshan (30.4°N, 119.4°E), Zhejiang, 13 July 1995, col-

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lected by WU Hong, No. 950103. Paratype 1 ♀, same locality as holotype, 14 July 1995, collected by WU Hong, No. 950170.

Remarks. This species is somewhat similar to *Exechia kunashirensis* Zaitzev, 1996, but differs in body size smaller, and the structure of genitalia different.

Figs. 3-5. *Exechia hebetata* sp. nov. Male genitalia. 3. Ventral view. 4. Gonostylus, lateral view. 5. Tergite 9 and cerci.

3 *Exechia hebi* sp. nov. (Figs. 6-8)

♂. Wing length 3.2 mm. Head dark brown. Antennae brown, with scape, pedicel and base of 1st flagellum yellow, slightly longer than head and thorax; flagellar segment longer than width. Pronotum and mesoscutum brownish yellow. Pleura and mediotergite brownish yellow. Wing clear yellowish. Cross vein r-m 2.6 times as long as m-stalk. Halter yellow. Legs yellow. Fore metatarsus slightly longer than tibia. Middle metatarsus 0.9 times as long as tibia. Middle tibia with closely concentreda, 5-6 d, 5 v, 12 p, 5 p-d. Hind tibia with 10-13 a, 7-10 p, 6-8 p-d. Abdominal tergites brown, with posterior angles of tergites 1-4 broad and yellow. Stermites 1-3 yellowish brown, sternites 4-6 brown.


Remarks. This species is somewhat similar to Exechia kunashirensis Zaitzev, 1996, but differs from the latter in the structure of genitalia.

4 Exechia insularis Zaitzev, 1996 New recorded to China


Distribution. China: Zhejiang (Gutianshan); Sakhalina and Kuril Is.

5 Exechia longichaeta sp. nov. (Figs. 9-10)

♂. Wing length 2.7-3.1 mm. Head blackish-brown. Antennae brown, with scape, pedicel and basal 1/2 of 1st flagellum yellow, subequal to combined length of head and thorax; flagellar segment 1.2 times as long as broad. Pronotum dark brown. Mesoscutum blackish brown, with sides and humeral angles brown. Pleura and mediotergite brown. Wing clear brownish yellow. Cross vein rm 1.6-1.9 times as long as r-m stalk. Halter brownish yellow. Legs brownish yellow, but base of hind femur brown ventrally. Fore metatarsus slightly longer than tibia. Middle metatarsus 0.9 times as long as tibia. Middle tibia with 22-24 a, 3p- v, 8 p, 3-5 p-d. Hind tibia with 7-11 a, 4 p, 5 p-d. Abdominal tergites blackish brown, with sides of tergites 2-3 lighter. Sternites 1-3 brownish, sternites 4-6 brown. The male genitalia are shown in.


REFERENCES


中国伊菌蚊属新种记述

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摘要 记述中国伊菌蚊属 4 新种及 1 新纪录种，模式标本保存在浙江林学院昆虫标本室。

黑齿伊菌蚊，新种 Execi a atridonta sp. nov. (图 1~2)

雄翅长 2.2~2.5 mm。新种与分布于欧洲的 E. sororcula Lackschewitz，1937 1♂，♀翅长 3.0 mm，生殖基节后缘亚中部为粗长鬃，生殖刺突无宽大黑褐色构造。

正模♂，♀，1992-08-19，♀：♀ 1

钝尖伊菌蚊，新种 Execi a hebetata sp. nov. (图 3~5)

♂翅长 2.8 mm。新种与模式产地在千岛群岛的国后伊菌蚊 E. kunashirensis Zaitzev，1996 1♂，♀翅长 3.9 mm，♂♂，♀♀各 3 只，生殖基节和生殖刺突的构造明显不同。

正模♂，♀，1992-08-19，♀：♀ 1

何氏伊菌蚊，新种 Execi a hee sp. nov. (图 6~8)

♂翅长 3.2 mm。新种与模式产地在千岛群岛的国后伊菌蚊 E. kunashirensis Zaitzev，1996 1♂，♀翅长 3.9 mm，♂♂，♀♀各 3 只，生殖基节和生殖刺突的构造明显不同。

正模♂，♀，1992-08-19，♀：♀ 1

岛居伊菌蚊 Execi a insulalis Zaitzev，1996 中国新纪录种标本记录：1♂，♀翅长 3.9 mm，♀ 8♂，♀翅长 3.1 mm，♀♂各 3 只，生殖基节和生殖刺突的构造明显不同。

正模♂，♀，1992-08-19，♀：♀ 1

长毛伊菌蚊，新种 Execi a longic heta sp. nov. (图 9~10)

♂翅长 2.7~3.1 mm。新种与分布于美国的 E. pollex Shaw，1935 1♂，♀翅长 3.9 mm，♂♂，♀♀各 3 只，生殖基节和生殖刺突的构造明显不同。

正模♂，♀，1992-08-19，♀：♀ 1

关键词 双翅目，菌蚊科，伊菌蚊族，伊菌蚊属，新种。