FOUR NEW SPECIES OF THE GENUS EXECHIOPSIS FROM CHINA
(DIPTERA : MYCETOPIHIDAE)

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Abstract In this paper four species of the genus Exechiopsis Tuomikoski from China are described as new to science. The type specimens are deposited in Zhejiang Forestry College.

Key words Diptera, Mycetophilidae, Exechini, Exechiopsis, new species.

The genus Exechiopsis Tuomikoski is mainly a Holarctic genus with nearly 60 described Palaearctic species, which is recorded for the first time from China. The present paper adds 4 new species. The type specimens are deposited in Zhejiang Forestry College.

1 Exechiopsis leptoclada sp. nov. (Figs. 1-2)

♂. Wing length 3.1 mm. Head blackish brown. Antennae brown, with scape, pedicel and half of 1st flagellum yellow at the base; 1.5 times as long as head and thorax; flagellar segments 2.0 times as long as wide. Pronotum yellow brown. Mesoscutum yellowish brown, with 3 brown longitudinal stripes. Pleura and mediotergite yellow brown. Wing clear brownish yellow. Cross vein r+ m 2.6 times as long as m-stalk. Halter clear yellow. Legs brownish yellow. Fore metatarsus 1.5 times as long as tibia. Middle metatarsus 1.1 times as long as tibia. Middle tibia with 26 a, 8-9 p, 7 r d. Hind tibia with 1 a, 14 p, 6-7 r d. Abdominal tergites brown, with posterior angles of tergites 1-4 yellow. Sternites brownish. The male genitalia are shown in Figs. 1-2.

Holotype ♂. Baishanzu (27°45' N, 119° 12' E), Qingyuan County, Zhejiang, 24 Oct. 1993, collected by WU Hong, No. 931447. Paratype 1 ♂, the same locality as holotype, 26 Oct. 1993, No. 931284.

This species is allied to Exechiopsis jenkinsoni (Edwards, 1925), but differs in the structure of gonocoxites and gonostylus.

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2) Present address: Zhejiang Forestry College, Lin'an 311300.
Exechiopsis muscariforma sp. nov. (Figs. 3-4)

♂. Wing length 3.9 mm. Head blackish brown. Antennae brown, with scape, pedicel and half of 1st flagellum yellow at base; 1.4 times as long as head and thorax; flagellar segments 2.0 times as long as wide. Pronotum yellow brown. Mesoscutum blackish brown. Mesanepisternum brown. Scutellum, laterotergite and mediotergite dark brown. Wing clear brownish yellow. Cross vein r-m 1.5 times as long as m-stalk. Halter brownish yellow. Legs yellow brown, but base of middle and hind femora with ventral dark brown markings. Fore metatarsus 1.1 times as long as tibia. Middle tibia with 32 a, 11 p v, 13 p, 6 p d. Hind tibia with 12 a, 10 p, 11 p d. Abdominal tergites dark brown, with posterior angles of tergites 2-4 yellow. Sternites brown. The male genitalia are shown in Figs. 3-4.

Holotype ♂, Gutianshan (29°16' N, 118°06' E), Kaibua County, Zhejiang, 14 Apr. 1992, collected by ZHOU Zhang En, No. 932004.

This species is similar to Exechiopsis leptura (Meigen, 1830), but differs from the latter in the structure of gonocoxites and gonostylus.

Exechiopsis pachyoda sp. nov. (Figs. 5-6)

♂. Wing length 3.1-3.3 mm. Head dark brown. Antennae brown, with scape, pedicel and half of 1st flagellum yellow at base; 1.4 times as long as head and thorax; flagellar segments 1.8 times as long as wide. Pronotum, mesoscutum, pleura and mediotergite brown. Wing clear brownish yellow. Cross vein r-m 1.4 times as long as m-stalk. Halter yellow. Legs brownish yellow, but base of middle and hind femora brown ventrally. Middle metatarsus 1.1 times as long as tibia. Middle tibia with 24-27 a, 7 p, 3 p d. Hind tibia with 9-11 a, 8 p, 6 p d. Abdominal tergites brown, with posterior angles of tergites 1-2 yellow. Sternites yellow brown. The male genitalia are shown in Figs. 5-6.

Holotype ♂, Gutianshan, Kaibua County, Zhejiang, 14 Apr. 1993, collected by ZHOU Zhang En, No. 932011. Paratypes 3 ♂♂: 1 ♂, the same data as holotype, No. 932012; 1 ♂, the same locality as holotype, 14 Apr. 1993.
Figs. 7-9  *Exechiopsis sichuanensis* sp. nov.

7. male genitalia, ventral view  
8. gonostylus, lateral view  
9. tergite 9 and cerci

This species is somewhat similar to *Exechiopsis sichuanensis* sp. nov., but the structure of gonostylus is distinctly different.

4  *Exechiopsis sichuanensis* sp. nov. (Figs. 7-9)

♂. Wing length 4.8 mm. Head dark brown. Antennae brown, with scape, pedicel and half of 1st flagellum brownish yellow at base; 1.1 times as long as head and thorax; flagellar segments 1.5 times as long as wide. Pronotum brown. Mesoscutum dark brown. Pleura and mediotergite brown. Wing clear brownish yellow. Cross vein rm 1.8 times as long as rrm stalk. Halter brownish yellow. Legs brown. Fore metatarsus 1.1 times as long as tibia. Middle metatarsus subequal to tibia. Middle tibia with 30 a, 14 p, 3 pr d. Hind tibia with 8 a, 10 p, 7 pr d. Abdomen dark brown. The male genitalia are shown in Figs. 7-9.

Holotype ♂, Songpan County (32°39' N, 103°35' E), Sichuan, 24 Jun. 1990, collected by Morse, No. 900019.

This species is allied to *Exechiopsis hammi* (Edwards, 1925) and *Exechiopsis triseta* (Tollet, 1955), but differs in the structure of genitalia.

REFERENCES


中国外菌蚊属四新种记述（双翅目：菌蚊科）
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摘要 记述中国外菌蚊属4新种，模式标本保存在浙江林学院昆虫标本室。本属为中国新纪录属。

细枝外菌蚊，新种 Exechiopsis leptoclada sp. nov. (图1~2)
雄 翅长3.11 mm。新种与分布于欧洲的 E. jenkinsoni (Edwards, 1925) 相似，但后者的生殖基节中突细长，生殖刺突的形状也有差异。
正模 ♂，浙江庆元百山祖，1993.10.24，吴鸿采。副模 1 ♂，同正模；1 ♂，浙江庆元百山祖，1993.10.26，吴鸿采。

扫帚外菌蚊，新种 Exechiopsis muscariforma sp. nov. (图3~4)
雄 翅长3.9 mm。新种与广布于欧洲的 E. leptura (Meigen, 1830) 相似，但后者的生殖基节后缘构造不同，生殖刺腹突端部无排成列的长鬃。
正模 ♂，浙江开化古田山，1992.04.14，周章恩采。

粗齿外菌蚊，新种 Exechiopsis pachyoda sp. nov. (图5~6)
雄 翅长3.11~3.13 mm。新种与四川外菌蚊 E. sichuanensis sp. nov. 相似，但后者的生殖刺突构造和比例明显不同。

四川外菌蚊，新种 Exechiopsis sichuanensis sp. nov. (图7~9)
雄 翅长4.8 mm。新种与分布于欧洲的 E. hammi (Edwards, 1925) 和分布于德国及罗马尼亚的 E. triseta (Tollet, 1955) 相似，但 E. hammi 的生殖刺背突端部光裸；E. triseta 的生殖刺突粗短，且生殖基节的中突构造不同。
正模 ♂，四川松潘，1990.06.24，Morse 采。

关键词 双翅目，菌蚊科，伊菌蚊族，外菌蚊属，新种。

中图分类号 Q969.44

1) 说明注释。
2) 说明注释。