

FOUR NEW SPECIES OF THE GENUS EXECHIOPSIS FROM CHINA¹⁾ (DIPTERA: MYCETOPHILIDAE)

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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, Exechiini, *Exechiopsis*, new species.

The genus *Exechiopsis* Tuomikoski is mainly a Holarctic genus with nearly 60 described Palearctic 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)



Figs. 1-2 *Exechiopsis leptoclada* sp. nov.
1. male genitalia, ventral view 2. tergite 9 and cerci

. 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 nr stalk. Halter clear yellow. Legs brownish yellow. Fore metatarsus 1.5 times as long as tibia. Middle 2 metatarsus 1.1 times as long as tibia. Middle tibia with 26 a , 8-9 p , 7 $p-d$. Hind tibia with 1 a , 14 p , 6-7 $p-d$. 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.

1) Project supported by the "Education Grant" of NSFC.

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Received 29 Jul. 2000, accepted 28 Aug. 2000.

2 *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.

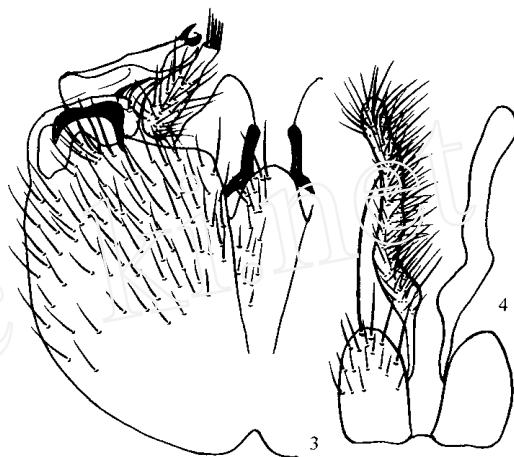
Holotype, Gutianshan (29°16' N, 118°06' E), Kaihua County, Zhejiang, 14 Apr. 1992, collected by ZHOU Zhang-En, No. 932004.

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

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



Figs. 5-6 *Exechiopsis pachyoda* sp. nov.
5. male genitalia, ventral view 6. tergite 9 and cerci



Figs. 3-4 *Exechiopsis muscariforma* sp. nov.
3. male genitalia, ventral view 2. tergite 9 and cerci

. 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, Kaihua 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, collect-



Figs. 7-9 *Exechiopsis sichuanensis* sp. nov.

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

ed by WU Hong ,No. 940012 ; 1 , Ninghai County (29 °18 N , 121 °26 E) , Zhejiang , 15 Apr. 1991 , collected by WU Hong ,No. 910120.

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 r-m 1.8 times as long as m-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 *p-d*. Hind tibia with 8 *a* , 10 *p* , 7 *p-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 trisetata* (Tollet , 1955) , but differs in the structure of genitalia.

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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 3.1 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 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 3.1~3.3 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。

正模 浙江开化古田山, 1993-04-14, 周章恩采。副模 1 同正模; 1 浙江开化古田山, 1993-04-14, 吴鸿采; 1 浙江宁海长街, 1991-04-15, 吴鸿采。

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. trisetata* (Tollet, 1955) 相似,但 *E. hammi* 的生殖刺背突端部光裸; *E. trisetata* 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) 国家自然科学基金重大项目“基础科学人才培养(特殊学科点)”资助。

2) 现在浙江林学院森林保护研究所工作。