

Two New Species of the Genus *Rondaniella* Johannsen (Diptera: Mycetophilidae) from China

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Abstract: In this paper two new species of *Rondaniella* Johannsen, 1909 from China are described. The type specimens are deposited in Zhejiang Forestry College, China.

Key words: Diptera; Mycetophilidae; *Rondaniella*; new species; China

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The genus *Rondaniella* was erected by Johannsen in 1909 based on the type-species *Leia variegata* Winnertz [= *dimidiata* (Meigen, 1804)]. Two species are known in the world, one from Europe, and the other from Java. This genus is reported here from China for the first time. Recently, the authors checked more than 40 specimens of this genus collected from China in the past 30 years, of which two new species were recognised and described in this paper. The type specimens are deposited in Insect Collection of Zhejiang Forestry College, China.

1. *Rondaniella aspidoida* Yu et Wu, sp. nov. (Figs. 1~4)

Male: Wing length 2.5~3.2 mm. Head pale brown with a brown spot over ocelli; vertex clothed with yellow moderately strong setae, 5~6 pale brown strong setae above antennal sockets, 4~5 strong brown bristles along outside of eyes; diameter of median ocellus less than 1/3 laterals; palpus yellow; antennae ochreous to brown, with scape ochreous, pedicel ochreous to pale brown, 1~4 flagella brownish yellow, rest brown, each flagellum about 1.3 times as long as wide. Pronotum and proepisternum ochreous, with 1~2 strong brown setae; prosternum ochreous, with relatively long hairs; mesoscutum with shoulders widely and two posterior lateral corners ochreous, rest dark brown; scutellum brown, with 4 brown bristles; mesanepisternum and mesokatepisternum brownish yellow and bare; mesepimeron yellowish brown and bare; laterotergite brown and haired; mediotergite brown and bare. Wing pale ochreous, long-oval, with a broad pale brown band close to tip, whose width about 1/3 times wing length; a slight dark shade below CuA₂; M₁ only very narrowly interrupted at base; CuA₁

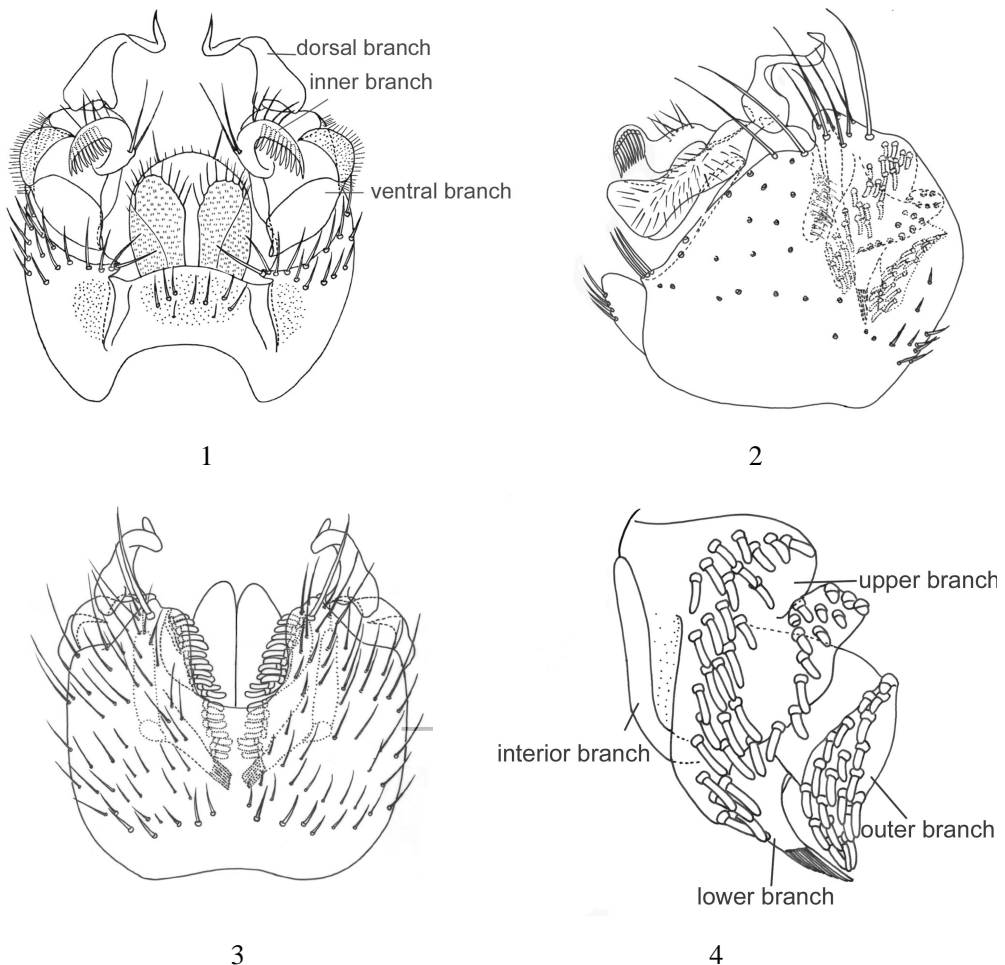
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not reaching margin and slightly bent so that converged toward CuA_2 ; halteres yellow with apical part brown. Legs ochreous; anterior surface of fore coxae bare; hind femora rather broadly black at tip; fore tibia with several short and small bristles, and apex with a distinct ovate depressed sensory ventrally; middle tibia with 4a, d10 and p3, also with one very long ventral bristle; hind tibia with a9, d14, v2 and p2. Abdominal tergites brown; abdominal sternites ochreous. Genitalia brown; outside of ventral branch of dorsal stylomere of gonostylus clothed with trichia (Figs. 1, 2); upper branch of ventral stylomere of gonostylus shield-like, with a notch on upper margin; outer branch of ventral stylomere with 20 similar cylindrical thorns arranged irregularly (Fig. 4).

Female: Unknown.



Figs. 1~4 *Rondaniella aspidoida*, sp. nov.

1. genitalia (dorsal view); 2. genitalia (lateral view); 3. genitalia (ventral view); 4. ventral stylomere of gonostylus (ventral view)

Holotype , Mt. Baishanzu, **Zhejiang** Province, 06- -1993, WU Hong, No. 931260. Paratypes: 1 , Mt. Baishanzu, **Zhejiang** Province, 10- -1994, WU Hong, No. 940791; 1 , Mt. Baishanzu, **Zhejiang** Province, 03- -1993, WU Hong, No. 931349; 1 Mt. Tianmu, **Zhejiang** Province, 800 m, -1989, ZHAO Ming-shui, No. 981830; 1 , Mt. Gutian,

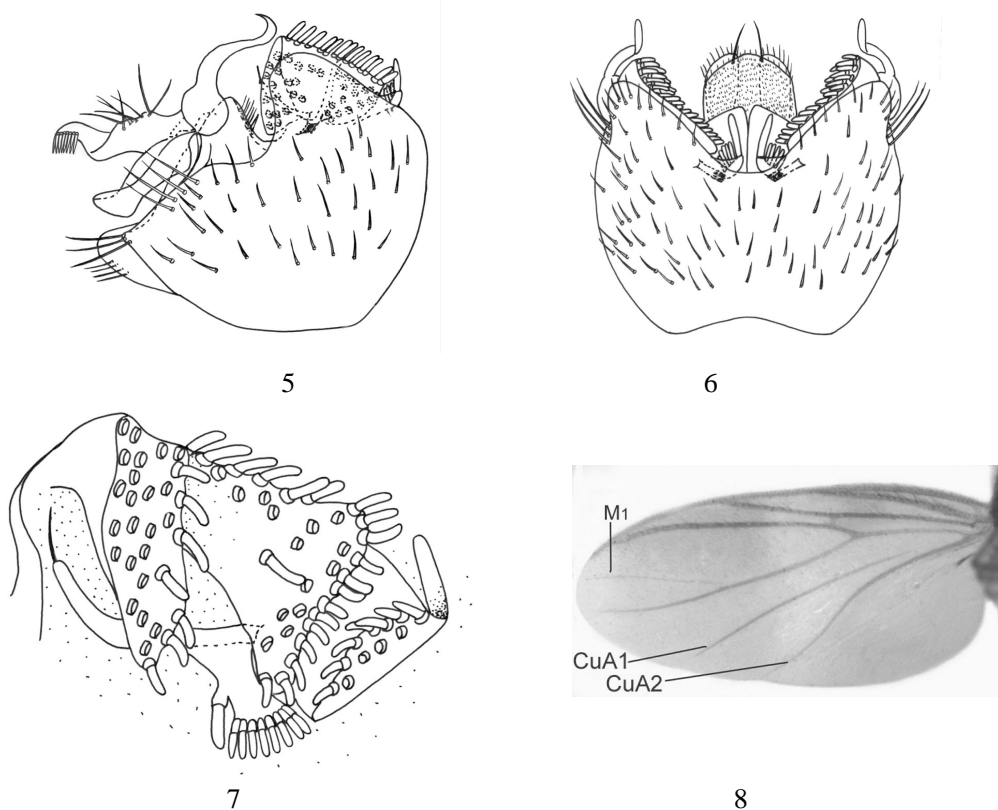
Zhejiang Province, 28- -1992, WU Hong, No. 931696; 1 , Mt. Gutian, Zhejiang Province, 17- -1992, CHEN Xue-xin, No. 931533.

Distribution: Zhejiang (Mt. Baishanzu, Mt. Gutian, Mt. Tianmu)

Remarks: This species is similar to *Rondaniella dimidiata* Meigen, 1804, but differs from the later in the apex of wing clear and the dorsal branch of the dorsal stylomere of gonostylus plate-like.

2. *Rondaniella schistocauda* Yu et Wu, sp. nov. (Figs. 5~8)

Male: Wing 2.2 mm. Head ocherous with a dark brown spot over ocelli, vertex clothed with relatively strong setae, 2 strong setae above antennal socket, 4~5 dark brown setae along outside of eyes; diameter of median ocellus less than 1/2 laterals; palpus yellow; antennae yellow to pale brown, with scape and pedicel yellow. Pronotum, proepisternum and prosternum yellow, with strong setae; mesoscutum mainly pale brown with two anterior lateral corners yellow; scutellum pale brown with 4 bristles; mesanepisternum and mesokatepisternum ocherous and bare; mesepimeron ocherous with posterior corner pale brown, bare; laterotergite pale brown and haired; mediotergite pale brown and bare. Wing relatively broad near base (Fig. 8), yellow, with a broad pale brown band close to tip, whose width about 2/5 wing length; a slight dark shade below CuA_2 ; M_1 only very narrowly interrupted at base; CuA_1 not reaching margin and slightly bent so that converged toward



Figs. 5~8 *Rondaniella schistocauda*, sp. nov.

5. genitalia (lateral view); 6. genitalia (ventral view); 7. ventral stylomere of gonostylus (ventral view); 8. wing

CuA₂; halteres yellow with apical part brown. Legs yellow; anterior surface of fore coxae with long hairs; hind femora rather broadly black at tip; fore tibia with several short and small bristles, and apex with an ovate depressed sensory ventrally; middle tibia with 4a, 9~10d, also with one very long ventral bristle; hind tibia with 9a, 11~12d. Abdominal tergites brown; abdominal sternites 1~4 yellow, abdominal sternites 5~8 brown. Genitalia brown; upper branch of ventral stylomere of gonostylus divided into two parts; outer branch of ventral stylomere of gonostylus with a thick apical thorn, and other 11 moderate thorns in two rows (Fig. 7) .

Female: Unknown.

Holotype: , Longchuan County, **Yunnan** Province, 29- -1981, YANG Ji-kun, No. 880570.

Distribution: Yunnan (Longchuan)

Remarks. This species is similar to *Rondaniella aspidoida* sp. nov., but differs from the later in the dorsal branch of the dorsal stylomere of gonostylus without trichia, the upper branch of the ventral stylomere of gonostylus divided into two parts and the lower branch of the ventral stylomere of gonostylus palm-like.

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中国隆菌蚊属二新种记述

(双翅目: 菌蚊科)

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记述中国隆菌蚊属2新种, 模式标本保存在浙江林学院昆虫标本室。

1. 盾形隆菌蚊 *Rondaniella aspidoida* Yu et Wu, 新种 (图 1~4)

雄 翅长 2.5~3.2 mm。新种与分布于欧洲的 *Rondaniella dimidiata* Meigen, 1804 相似, 但新种的翅尖清晰, 生殖刺背突的背支似盘状, 外侧密被细毛。

正模: , 浙江庆元百山祖, 1993- -06, 吴鸿采, 编号 931260。副模: 1 , 浙江庆元百山祖, 1994- -10, 吴鸿采, 编号 940791; 1 , 浙江庆元百山祖, 1993- -03, 吴鸿采, 编号 931349; 1 , 浙江天目山七里亭, 800m, 1989-08, 赵明水采自马氏诱捕器, 编号 981830; 1 , 浙江古田山, 1992- -28, 吴鸿采, 编号 931696; 1 , 浙江古田山, 1992- -17, 陈学新采, 编号 931533。

2. 裂尾隆菌蚊 *Rondaniella schistocauda* Yu et Wu, 新种 (图 5~8)

雄 翅长 2.2 mm。新种与分布于浙江的盾形隆菌蚊 *Rondaniella aspidoida* Yu et Wu, 相似, 但前者的生殖刺背突的背支无毛, 生殖刺腹突的上支分裂成两部分, 生殖刺腹突的下支呈手掌状。

正模: , 云南龙川户撒, 1981- -29, 杨集昆采, 编号 880570。

关键词: 双翅目; 菌蚊科; 隆菌蚊属; 新种; 中国