

Itomyia属（双翅目、シマバエ科）一新種の記載と既知種への検索

誌名	名城大学農学部学術報告
ISSN	09103376
著者名	岡留,恒丸
発行元	名城大学農学部
巻/号	47号
巻号補足	
掲載ページ	p. 1-4
発行年月	2011年3月

農林水産省 農林水産技術会議事務局筑波産学連携支援センター

Tsukuba Business-Academia Cooperation Support Center, Agriculture, Forestry and Fisheries Research Council
Secretariat



Original

Genus *Itomyia* and a New Species from Japan (Diptera, Lauxaniidae)

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Abstract A new species of lauxaniid fly, *Itomyia kenzoui* sp. nov. described from Central Japan. The new species is characterized by arista brownish yellow and short pubescent, by frons and face yellowish brown. Key for Japanese known species and male postabdomen are illustrated to aid determinations of the species. *I. atrifrons* is also recorded here from Korea for the first time.

Key words: Diptera, Lauxaniidae, *Itomyia*, new species, Japan

Itomyia 属 (双翅目, シマバエ科) 一新種の記載と既知種への検索 (岡留恒丸*)

要約 日本からのみ知られている *Itomyia* 属は, Lauxaniinae の中でも特有な形態をもつ一属で, これまで4種が知られていたが, この報告で一新種 *Itomyia kenzoui* Okadome, sp. nov. を追加記載した. さらに♂の末端部と5種の日本産既知種への検索表について示した. また本属が未記録であった韓国から *I. atrifrons* を初めて記録した.

Introduction

The genus *Itomyia* belongs to the subfamily Lauxaniinae was erected by Okadome (1998) bases on *Itomyia atrifrons* Okadome, 1998 and until now, this genus was known only from Japan. Recently Sasakawa (2005) described additional two species of *Itomyia* from Honshu. Therefore, up to now following four species, *I. atrifrons* Okadome (Honshu, Kyushu), *I. tsushimana* Okadome (Kyushu), *I. curvata* Sasakawa (Honshu) and *I. lobata* Sasakawa (Honshu).

Studying materials from the Honshu, deposited in the Entomological Laboratory, Faculty of Agriculture, Meijo University the author were able to find a new *Itomyia* species, which is described and illustrated herein.

Material and Method

The specimens used in this study were collected by sweeping and Malaise traps. Holotype of new species described herein are deposited in the Entomological Laboratory, Meijo University (ELMU), Nagoya, Japan. The terminalia were macerated in 10% KOH at room temperature, and after about 5-10 hours to remove soft tissue.

Key to the Japanese species of *Itomyia* Okadome, 1998

- 1 Arista black, densely plumose 2
- Arista white or brownish yellow, short pubescent 3
- 2 Mid tibia dark brown; left surstylus L-shaped
..... *I. curvata* Sasakawa
- Mid tibia not dark brown; left surstylus basally straight,
but slightly curved back wards *I. atrifrons* Okadome
- 3 Arista black; mesoscutum with 3 bands; fore tibia except
for base brown, left surstylus rectangular, about 2 times
longer than their maximum width 4
- Arista brownish yellow; mesoscutum without bands; fore
tibia not dark brown; left surstylus triangular, posterior
margin convex and anterior margin abruptly narrowed at
about 1/2 its length *I. kenzoui* Okadome sp. nov.
- 4 Acrostichal setae 4 rows *I. lobata* Sasakawa
- Acrostichal setae 2 rows *I. tsushimana* Okadome

Description

Itomyia kenzoui Okadome, sp. nov.

(Figs. 1-2)

Male. *Head*. higher than long (1.3 X), wider than high (1.6 X); eye obliquely ovate. Vertex dark brown; occiput and median sclerite yellowish brown to reddish brown; postocellar setae about half as long as ocellar setae. Frons brownish yellow, with sparsely setulae on anterior corner of frontal edge. Front orbital plate brownish, covered with fine particles; anterior orbital seta almost as long as posterior

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Received at 22 November 2010

Accepted at 28 February 2011

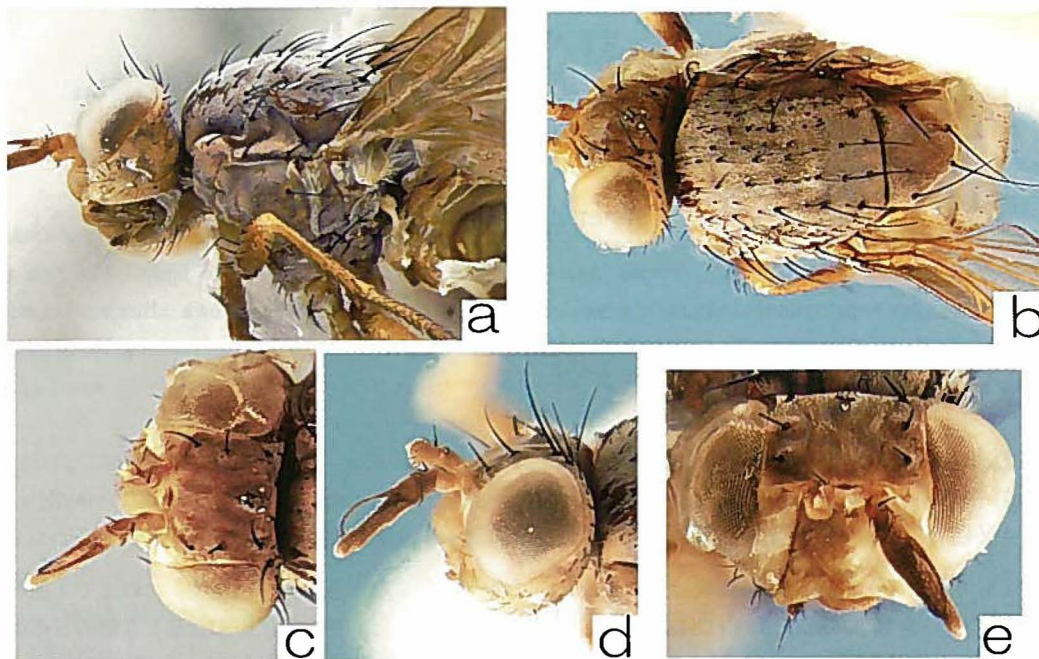


Fig. 1. *Itomyia kenzoui* sp. nov. (Holotype from Yawata, Asahi, Aichi, Japan). a: general habitus in lateral view; b: same in dorsal view; c: the dorsal view of the head; d: lateral view of the same; e: anterior view of the same.

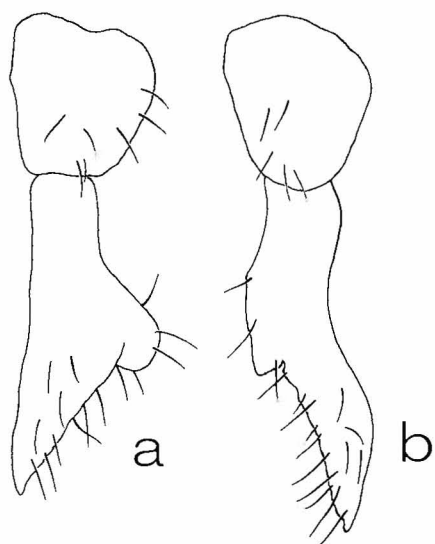


Fig. 2. *Itomyia kenzoui* sp. nov. a-b: male epandrium and surstyli; a: right, outer side; b: left, same side.

seta. 1st flagellomere yellowish brown, 3.5 times as long as wide, arista brownish yellow, short pubescent. Face yellowish brown, shining with developed into a blunt cone, and parafacial, gena, and postgena shiny yellowish white. Clypeus yellowish brown. *Thorax*. mesoscutum and scutellum uniformly yellowish brown, covered with fine particules, without markings. Postpronotal lobes and notopleuron yellowish. Pleural sclerites slightly paler than mesonotum. Chaetotaxy are as follows: 0+3 dorsocentral setae, first seta situated behind suture, but closer to suture than to second

seta; 1 postpronotal seta present; 2 notopleural setae; 1 presutural intra-alar seta present; 1 supra-alar seta; 1 intra-alar seta; 1 postalar seta; 1 prescutellar acrostichal seta; 1 proepisternal seta; 1 strong anepisternal seta; 1 strong katepisternal seta; 2 pairs scutellar setae. One pair prescutellar seta, 2 rows acrostichal setae; presutural area with some setulae in irregular rows. Wing uniformly yellowish hyaline, somewhat darker anterior margin; veins yellowish. Anterior crossvein place in middle of discal cell. Penultimate section of M3+4 about 1.7 X as long as posterior crssvein. Veins R4+5 and M1+2 almost parallel. Apex of vein R2+3 not turned. Cross veins straight. Haltere with yellowish stalk and dark brown knob. Legs yellowish to brownish yellow, except darker in fore leg. Fore femur with 5 posterior dorsal, 4 lateral and 4 ventral setae, respectively. Mid tibia with 2 apical supurs. *Abdomen*. Entirely yellowish brown, tergite 1+2 about 1.3 X as long as tergite 3; tergite 3 about 1.2 times as long as tergite 4; tergites 4, 5 and 6 about same in size. Epandrium almost rounded in lateral view, with some setae outer surface. Surstyli asymmetrical, articulated with epandrium. Left surstylus rather slender, anterior margin abruptly narrowed at about 1/2 it length, and about 2.0 X longer than height of epandrium.

Length. Body 3.4 mm, wing 3.7 mm.

Female unknown.

Holotype. Male, [Japan: Honshu] Yawata (650m.), Asahi, Aichi Pref., 17-27. X. 1998, K. Yamagishi. In ELMU Collection.

Distribution. Japan (Honshu)

This species is closely related to *I. lobata* Sasakawa, but differs by the following characters: in having the arista brownish yellow to dark, in having the face entirely yellowish brown with conical tubercle, in having 2 rows acrostical setae on mesoscutum and left surstylus rectangular, anterior edge abruptly narrowed at about 2/3 its length.

Etymology. This species is named in honor of Dr. Kenzou Yamagishi, Hymenopterist and collector of many of the specimens.

***Itomyia atrifrons* Okadome**

(Fig. 3)

Itomyia atrifrons Okadome, 1998: 251

Itomyia atrifrons: Sasakawa, 2005: 298.

This species the type of the genus, is superficially resembles *I. curvata* Sasakawa having a plumose black arista, and 2 rows acrostichal setae on mesoscutum, but is distinguishable from it by; mesonotum with 3 longitudinal stripes, and left surstylus elongate, almost stright, with apex rounded and slightly bent posteriorly.

Specimens examined. 1 ♀, Bibai, Hokkaido, 30. VI. 1967, K. Yamagishi; 1 ♂, H. H. S., Setagaya, Tokyo, 9. III. 1987, H. Mitsui; 1 ♀ and 2 ♂, Yawata (650 m.), Asahi, Aichi Pref., 17–27. X. 1998, K. Yamagishi; 2 ♀, 3 ♂, same locality and collector, 15–25. IX. 1998; 1 ♀, 1 ♂, Mt. Sanageyama, Aichi Pref., 2. V. 1971, K. Yamagishi; 1 ♀, same loc. and col., 23.

XI. 1970; 2 ♀, 2 ♂, Togoku, Seto, Aichi Pref., 29. VI–5. VII. 1997, K. Kitazumi; 2 ♀, 1 ♂, Noguchi, Sawara, Fukuoka Pref., 11. IV. 1966, T. Saigusa; 1 ♀, Mt. Tachibana-yama, Fukuoka, Kyushu, 27. I. 1974, K. Yamagishi; 1 ♀, same loc. and col., 12. II. 1974; 1 ♂, same loc. and col., 3. IV. 1974; 1 ♂, same loc. and col., 8. IV. 1978; 1 ♀, same loc. and col., 17. V. 1974; 2 ♂, same loc. and col., 20. IV. 1974; 1 ♂, Mt. Wakasugi-yama, Sasaguri, Fukuoka Pref., 21. IV. 1962; T. Saigusa.

1 ♂, Mt. Sudosan (400 m.), Kyongsangpunk-do, KOREA, 17–18. VII. 1971, K. Yamagishi.

Distribution. Japan (Hokkaido (first record), Honshu, Kyushu) Korea (first record).

***Itomyia lobata* Sasakawa**

(Fig. 4)

Itomyia lobata Sasakawa, 2005: 298.

This species can be easily distinguished from any other *Itomyia* species by the acrostichal setae in 4 rows on mesoscutum.

Specimens examined. 1 ♀, Mikashima, Tokorozawa, Saitama Pref., 26. VI. 1990, H. Mitsui; 1 ♀, Yawata, Asahi, Aichi Pref., 18–28. VII. 1998, K. Kawase; 1 ♂, same loc. and col., 15–25. IX. 1998; 1 ♀, Mt. Futatabi-yama, Kobe, Hyogo Pref., A. Tanaka; 1 ♀, Mt. Yui, Amami-oshima Is., Ryukyu, 27. III. 2000–30. I. 2001, T. Muroi & Y. Maeda.

Distribution. Japan (Honshu, Ryukyu (first record)).

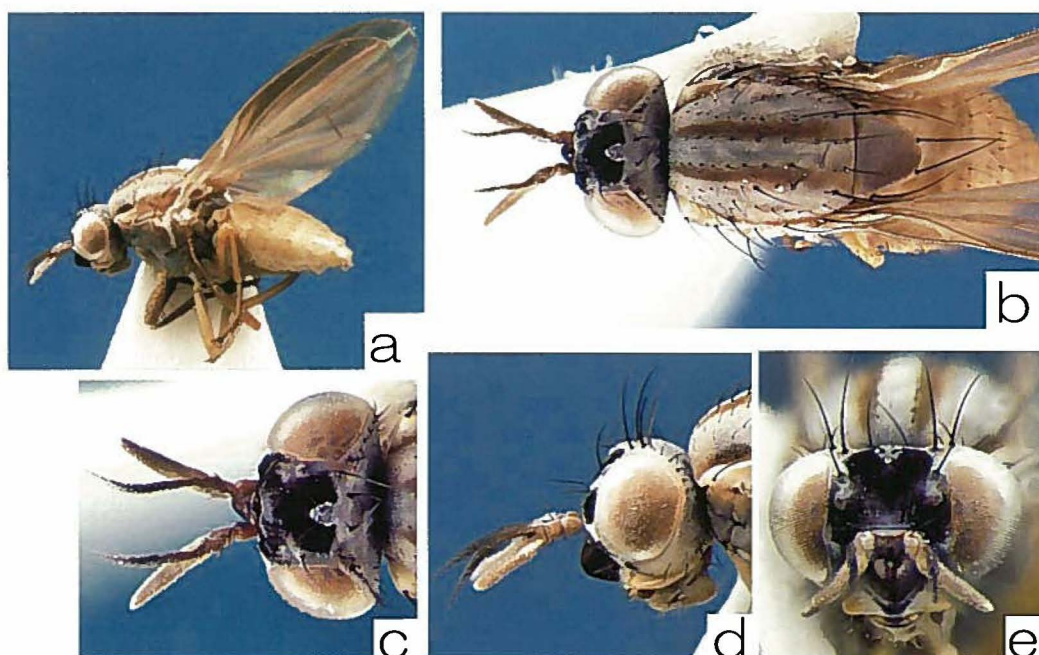


Fig. 3. *Itomyia atrifrons* Okadome. A specimen from Yawata, Asahi, Aichi, Japan. a: general habitus in lateral view; b: same in dorsal view; c: the dorsal view of the head; d: lateral view of the same; e: anterior view of the same.

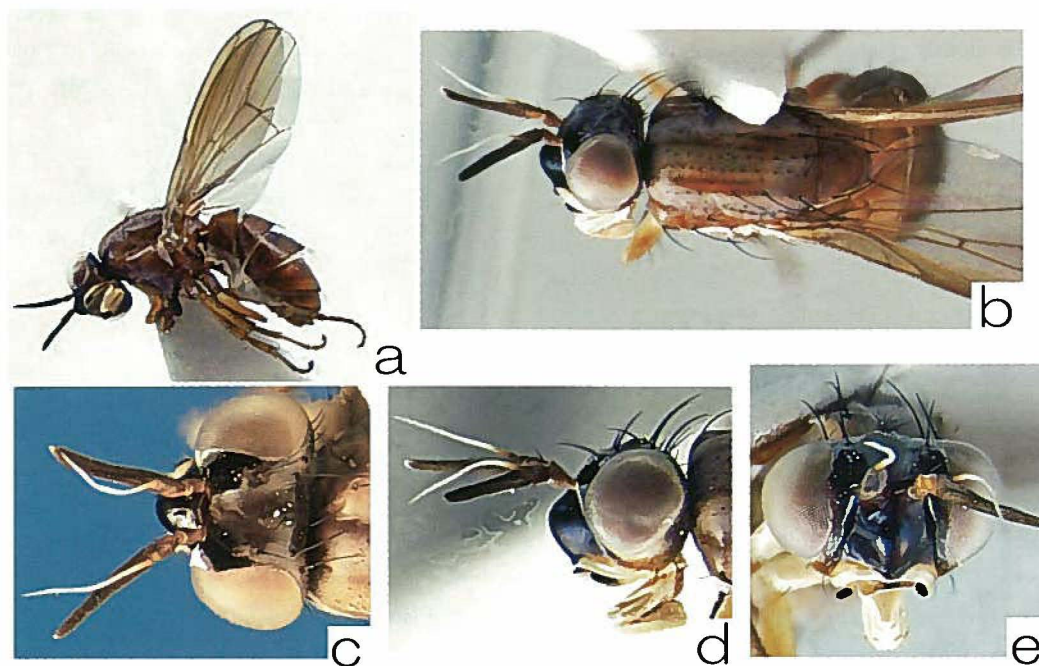


Fig. 4. *Itomyia lobata* Sasakawa. A specimen from Yawata, Asahi, Aichi, Japan. a: general habitus in lateral view; b: same in dorsal view; c: the dorsal view of the head; d: lateral view of the same; e: anterior view of the same.

Acknowledgements

The author grateful to Professor Kenzou Yamagishi, Entomological Laboratory, Faculty of Agriculture, Meijo University, Nagoya, for providing many interesting specimens.

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