Itomyia属（双翅目、シマバエ科）－新種の記載と既知種への検索

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Original

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

Tsunemaru OKADOME

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

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; postocular 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
Fig. 1. *Itomyia kenzoui* sp. nov. (Holotyp 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; 1 postpronotal seta present; 2 notopleural setae; 1 presutural intra-alar seta present; 1 supr-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 crossvein. 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. Eintirely 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.

Distribution. Japan (Honshu)

This species is closely related to *I. lobata* Sasakawa, but differs by the following characteristics: 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

*Itomyia atrifrons* Okadome, 1998: 251


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.


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

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

*Itomyia lobata* Sasakawa


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


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

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**References**
