

# On *Drosophila quelpartiensis* sp. nov. With Supplementary Notes on the Female of *Drosophila pseudonokogiri* Kang, Lee and Bahng

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초파리屬의一新種과 *Drosophila pseudonokogiri*의 암컷에 대하여

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## 摘 要

*Drosophila* 屬의 *Dichaetophora* 亞屬은 1940年 Duda에 의하여 創設된 後 Duda, Burla 等에 의하여 4種이 記錄되어 있고, 東洋에서는 下記의 3種이 記載되어 있다. 即

*Drosophila raridentata* Okada & Chung, 1960(分布: 韓國 · 日本)

*Drosophila magnidentata* Lee, 1964(分布: 韓國)

*Drosophila surukella* Okada, 1965(分布: Okinawa)

著者들은 濟州島 漢峯山에서 採集된 標本을 整理分類한 結果 *Dichaetophora* 亞屬의 1新種을 얻었기에 이에 記載하였다. 이 밖에 著者들이 1965年에 發表한 *Drosophila pseudonokogiri*의 암컷에 대하여 記載하였다.

In the present paper is described a new species of the subgenus *Dichaetophora* from Quelpart Island in Korea, with supplementary notes on the female of *Drosophila pseudonokogiri* Kang, Lee & Bahng.

***Drosophila (Dichaetophora) quelpartiensis* sp. nov.** (Figs. 1-3) 國名: 제주큰초파리(新稱)

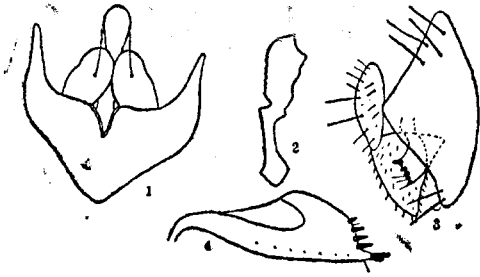
Male: Body about 1.8 mm, yellowish brown. Longitudinal axis of the eye anteroventrally oblique to the body axis. Eye red, oval and somewhat pentagonal, roughly pubescent. Antenna with 2nd joint yellow, 3rd brown exceedingly broaden below. Arista with 8 branches including a fork, 2 below it. Palpus yellowish grey, with 1 prominent subapical seta. Ocellar triangle brownish black. Periorbits paler than front, not reaching frontal margin, and with a few short hairs arranged along eye margin. Front broad, flat, greyish brown, slightly narrower than half the head width at the level of ocellars, slightly narrowing below, and with a few prominent frontal hairs. Face yellowish grey, flat, carina flat. Cheek yellowish grey, about 1/5 as broad as the greatest diameter of eye. Occiput brownish black. Orb<sub>2</sub> about 1/2 length of orb<sub>1</sub>, orb<sub>3</sub> as long as orb<sub>1</sub> and situated inside orb<sub>2</sub>, which is much nearer to orb<sub>3</sub> than to orb<sub>1</sub>. Vibrissa stout very long.

Mesonotum yellowish brown, narrower than head in width, and exceedingly flat at side view. Scutellum yellowish brown. Thoracic pleura yellowish brown, with two longitudinal black stripes. Only one humeral. Acrostichals in 4-6 irregular rows. Anterior scutellars divergent, shorter than posteriors. Sterno-index about 0.3. Legs yellow, preapicals on all legs, apicals on middle.

Wings hyaline, C-index about 1.8, 4v-index about 3.8, 4c-index about 2.0, 5x-index about 4.5, Ac-index about 2.5.

1st costal section with 2 stout apical bristles, 3rd costal section with heavy bristles on its basal about 2/5. Halteres yellow.

Abdominal tergites brownish yellow, with brownish black caudal band on each tergites. Abdominal sternites pale



**Figs. 1-3.** *Drosophila (Dichaetophora) quelpartiensis* sp. nov.

1. Phallic organs (ventral aspect).

2. Aedeagus (lateral aspect).

3. Periphallallic organs (lateral aspect).

**Fig. 4.** Egg-guide of *Drosophila pseudonokogiri* Kang, Lee & Bahng.

yellow.

Periphallic organs (Fig. 3): Genital arch pale yellow, triangular, and upper portion with about 4 and lower portion about 2 hairs. Between the left genital arch and right genital arch there is a triangular sack-like appendage. Clasper with 5 stout blackish brown teeth on the distal margin with several hairs. Anal plate whitish yellow, oblong, tapering below, with about 12 hairs, and separated from the genital arch.

Phallic organs (Fig. 1): Aedeagus pale yellow, slender, straight, and with serrations. Apodeme of aedeagus pale and thick. Ventral fragma hyaline, triangular. Novasternal plate oval, and with a fine submedian spine.

Holotype: Male, Mt. Halna, Quelpart Is. 15 VII 1965 (Bahng). Deposited at Dept. of Biology, Chungang University.

Relationships: Closely allied to *D. magnidentata* Lee, but differs from in the shapes of periphallallic and phallic organs.

### ***Drosophila (Hirtodrosophila) pseudonokogiri* Kang, Lee & Bahng**

Kang, Lee & Bahng: 1965. *Kor. Jour. Zool.* 8: 51-54. General features were described by Kang, Lee & Bahng (1965).

Egg-guides (Fig. 4): Lobe yellow, swollen above at middle, pointed at apex, with about 6 black stout marginal teeth on the apical portion of upper margin, and with a prominent subterminal hair on the lower margin near apex.

Specimens examined: Mt. Sori, 1 females, VII 1965, Mt. Sori 4 females VII 1966.

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