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A New *Polietes* (Diptera, Muscidae) from Korea

Soung Ho PARK¹⁾ and Satoshi SHINONAGA²⁾

¹⁾Department of Biology, Teacher's College, Kyungpook National University,
1370 Sankeug-Dong, Buk-gu, Daegu 635, Korea. ²⁾Department of Medical
Zoology, Faculty of Medicine, Tokyo Medical and Dental University,
1-5 Yushima, Bunkyo-ku, Tokyo, 113 Japan.

Abstract A new *Polietes*-species, *P. koreicus*, is described from Korea and compared with the related species, *P. lardarius* and *P. nigrolimbatus*.

Polietes is a small genus of Muscidae, occurring only in the Palaearctic region. Up to the present, 7 species are known. In addition to these, a new species is described based on the materials collected from Mt. Gumo, Gyeongbuk, Korea. The fly belonging to the genus *Polietes* is first recorded from Korea.

Polietes koreicus PARK & SHINONAGA, n. sp.

Male. Body length 9.0–12.0 mm. Head: Eyes densely covered with brownish hairs and contiguous; frons narrow, lower part triangular and black with 4 or 5 pairs of frontal bristles (*ori*); parafrontals and parafacials dark brown with silvery pollen; 2nd antennal segment black, 3rd segment brown and length of 3rd about 2× that of 2nd; arista plumose; genae and metacephalon black with numerous black hairs and covered with silvery pollen; palpi black. Thorax: Black with silvery pollen; scutum with 4 dark longitudinal stripes; *ac* 3–4+3; *dc* 3+4; *ia* 0+2; *h* 4; *ph* 2; *pra* present; *pa* 1; *ps* 1; *sa* 2; *pa* 2; *st* 1+1; *scut* 1 preapical, 3 lateral and 5–6 discals; propleuron bare; prosternum hairy; pteropleuron with numerous hairs; mesothoracic spiracles light brown, metathoracic spiracles dark brown. Wings: Hyaline; veins dark brown; *m*₁₊₂ straight; *r*₄₊₅ with 5–6 setae on dorsal surface and basal node of ventral surface; basicosta and epaulet black; subcostal sclerite dark brown; squamae white, upper squamae with blackish hairs on marginal parts and lower squamae tongue shaped with whitish hairs on dorsal and ventral surfaces entirely; halter dark brown. Legs: Black; *f*₁ with a pair of rows of long *pd*, a row of long *p**v*; *t*₁ with 3 or 4 *pl*; *f*₂ without row of long bristles, 3 or 4 strong preapical *pd* present; *t*₂ with 4 *pl* (*p*-seta); *f*₃ with a row of *ad* and *av*, 3–4 preapical *pd*; *t*₃ with a row of short *ad*, a row of short *pd* on basal half, a row of short *av* on distal half and 1 long *pd* on distal 1/3. Abdomen: Black with silvery pollen; 2nd tergite black, 3rd and 4th tergites with median longitudinal stripes and black bands on posterior margins. Forth and 5th tergites with marginal bristles; sternites, terminalia and male genitalia as shown in figure.

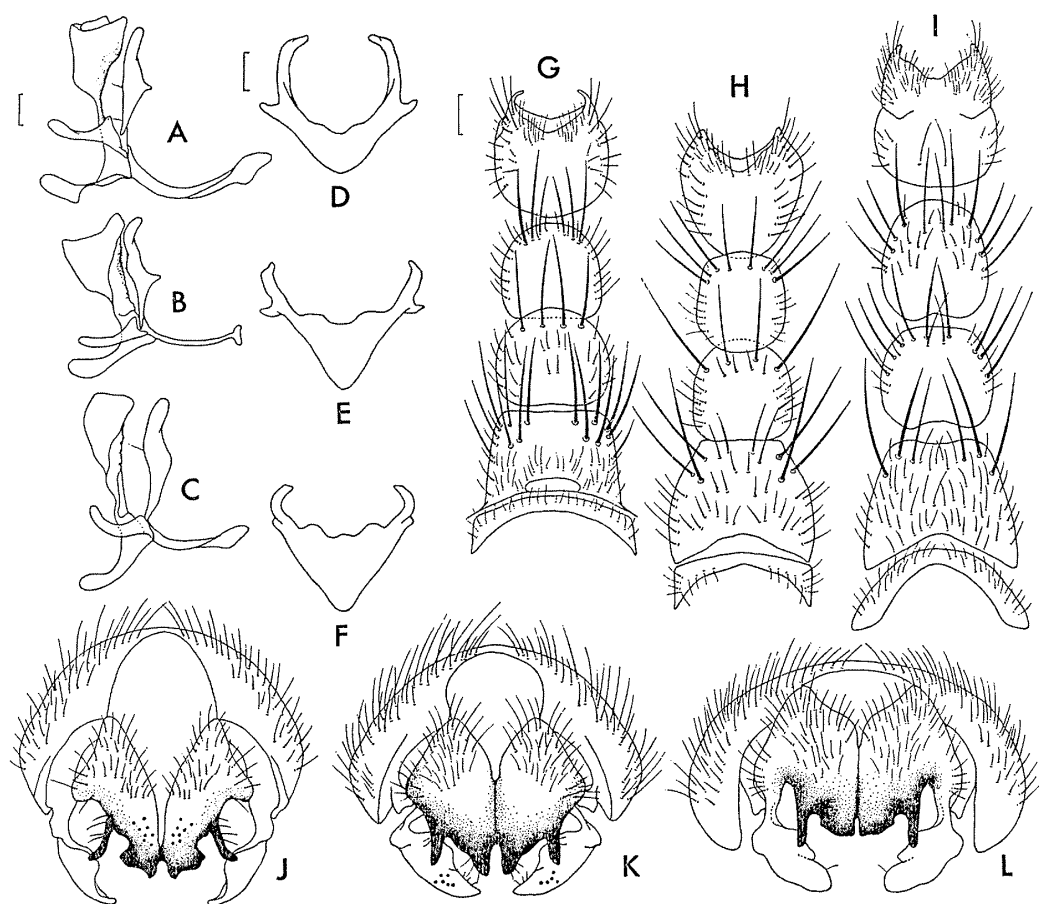


Fig. 1. *Polites* spp., phallosome (A–C), vinculum (D–F), male sternite (G–I) and male terminalia in posterior view (J–L). A, D, H and L, *P. koreicus* n. sp.; B, E, G and J, *P. lardarius*; C, F, I and K, *P. nigrolimbatus*. Scale: 0.1 mm for Figs. A–F, J–L; 0.5 mm for Figs. G–I.

Female. Body length 12 mm. Frons about 1/3 of head width; frontal vitta blackish brown, interfrontal cruciate bristles present; upper frontal bristles (*ors*) developed. Other characteristics similar to those of the male.

Holotype: ♂, Mt. Gumo, Gyeongbuk, Korea, 15 June 1983, S. H. PARK. *Paratypes:* 1 ♂, 18 May 1983; 1 ♂, 25 May 1983; 1 ♂, 15 May 1983; 1 ♂, 1 ♀, 22 May 1983 same locality and collector as holotype; 2 ♂♂, Mt. Gaeryong, Chungnam, Korea, 20 May 1984, T. H. Jo (Type in Kyungpook National University).

Remarks. The present new species is closely related to *P. nigrolimbatus* and *P. lardarius* in external features, but differs from the former in having the whitish squamae and the longer bristles on the posteroventral surface of mid-femur, and from the latter in having a single row of long bristles each on the posteroventral and anteroventral surfaces of mid-femur. In *P. lardarius* the hind femur has a row of long anterodorsal, anteroventral and posteroventral bristles, but in *P. koreicus* it has no posteroventral row. In the shape of the cercal plate of the male these species

are different from each others, as shown in figures.

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