

Descriptions of two new species of *Leptanusia* (Hymenoptera : Encyrtidae) from Patna, India

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Descriptions of two new species of *Leptanusia* (Hymenoptera: Encyrtidae) from Patna, India

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Two new species: *Leptanusia brevicornis* sp. n. and *Leptanusia varicornis* sp. n. from Patna are described and illustrated. Revised key to species of *Leptanusia* DE SANTIS is also given. Types deposited in Zoological Museum, Aligarh Muslim University, Aligarh, India.

Genus *Leptanusia* DE SANTIS

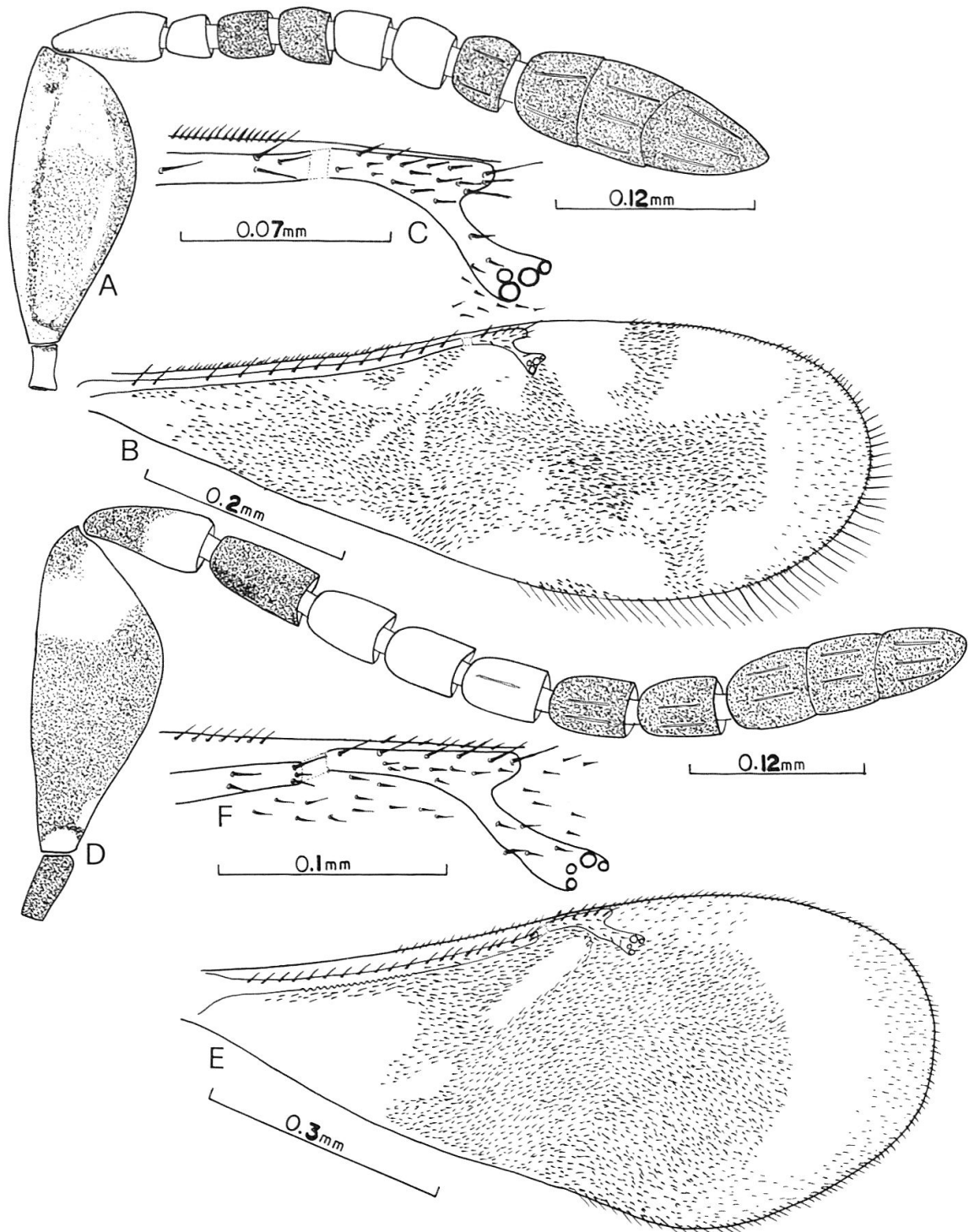
Leptanusia DE SANTIS, 1963: 80.

Type-species: *Leptomastidea pseudococci* BRETHES, by monotypy.

The generic characters proposed by DE SANTIS (1963) and ALAM & SHAFEE (1981) for the genus *Leptanusia* apply well on the species including two new species. HAYAT *et al.* (1975) key to species of *Leptanusia* DE SANTIS has been revised in order to accommodate the new species.

Revised key to species of Leptanusia DE SANTIS, based on females.

1. Funicle of uniform colour; funicle segment first more than two and a half times as long as wide, as long as or longer than pedicel; fore wings with postmarginal vein as long as or longer than stigmal vein 2
– Funicle with black and white segments; funicle segment first at most twice as long as wide, shorter than pedicel; fore wings with postmarginal vein much shorter than stigmal vein 4
2. Club brownish, three times as long as wide; postmarginal and stigmal veins subequal 3
– Club white, two and a half times as long as wide; postmarginal vein much longer than stigmal vein *pseudococci* (BRETHES)
3. Head dorsum slightly less than two times as wide as long; width of frontovertex more than one-third head width; scape brownish with a long whitish strip in middle *Szelenyii* HOFFER
– Head dorsum more than two times as wide as long; width of frontovertex about one-third head width; scape whitish with a long patch on dorsal side at distal half, and an irregular patch on ventral surface *quadri* HAYAT *et al.*
4. Funicle segments 1,4 and 5th white, remaining dark; pedicel as long as following two funicle segments together; funicle segments 1–6 quadrate; disc of forewings with five patches of transparent setae *brevicornis* sp. n.



Figs. A-F, A-C, *Leptanusia brevicornis* sp. n., ♀: A, Antenna; B, forewing; C, part of forewing venation. D-F, *Leptanusia varicornis* sp. n., ♀: D, antenna; E, fore wing; F, part of fore wing venation.

- Funicle segments 2-4 white, remaining dark; pedicel distinctly shorter than following two funicle segments together; funicle segments 1-6 longer than wide; disc of fore-wings with semicircular band of transparent setae *varicornis* sp. n.

Leptanusia brevicornis sp. n. (Figs. A–C)

Female

Head orange yellow, finely punctate; frontovertex slightly less than twice as long as wide; ocelli white, arranged slightly in obtuse triangle, lateral ocellus separated by its own diameter from inner orbital and occipital margins separately; eyes silvery white; malar sutures absent; malar space shorter than eye width; antennae inserted below ocular line, interantennal space slightly less than width of frons between eyes at median ocellus; mandibles bidentate. Antennae (Fig. A) white except funicle segments 2nd, 3rd, 6th and club dark; scape lightly infuscated, basal three-fourth and inner margin dark; scape flattened, two and a half times as long as wide; pedicel about twice as long as wide, as long as basal two funicle segments together; funicle segments quadrate; club 3-segmented, slightly less than three times as long as wide, about as long as preceding four funicle segments together.

Thorax yellowish except dorsum infuscated; mesoscutum without parapsidal furrows. Fore wings (fig. B) with patches of coarse and hyaline setae; slightly less than three times as long as wide; costal cell narrow; submarginal vein with 15 setae; marginal vein slightly longer than stigmal vein; postmarginal vein rudimentary (fig. C).

Abdomen orange yellow except dorsum infuscated, longer than thorax; cercal plates located on basal one-third, paratergites present; subgenital plate reaching apex of abdomen; ovipositor hidden, arising from apical one-third of abdominal venter.

Body length: 1.22 mm.

Holotype ♀, INDIA: Bihar, Patna, Danapur, ex *Ferrisia virgata* COCKERELL, 10.I.1984 (S.M. SHAMIM).

Leptanusia varicornis sp. n. (Figs. D–F)

Female

Resembles *L. brevicornis* sp. n. except in the following characters:

Antennae (fig. D) dark except apical one-third of scape, apical half of pedicel, funicle segments 2–4 white; pedicel much shorter than following two funicle segments together; funicle segment first twice as long as wide, 2–6 distinctly longer than wide; fore wings (fig. E) with semicircular band of transparent setae apically, slightly more than twice as long as wide; marginal fringe short.

Body length: 1.4 mm.

Holotype ♀, INDIA: Bihar, Patna, Danapur, 10.I.1984, (S.M. SHAMIM).

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