

Two new species of *Paramphidelus* Andrassy, 1977  
(Nematoda: Alaimidae) from Manipur, India

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SUMMARY

Two new species of *Paramphidelus* from India are described. *Paramphidelus saccus* n. sp. is 0.8-0.9 mm long, has small tennis-racket shaped amphids at 18-20  $\mu$ m from the anterior extremity and an anterior uterine sac.

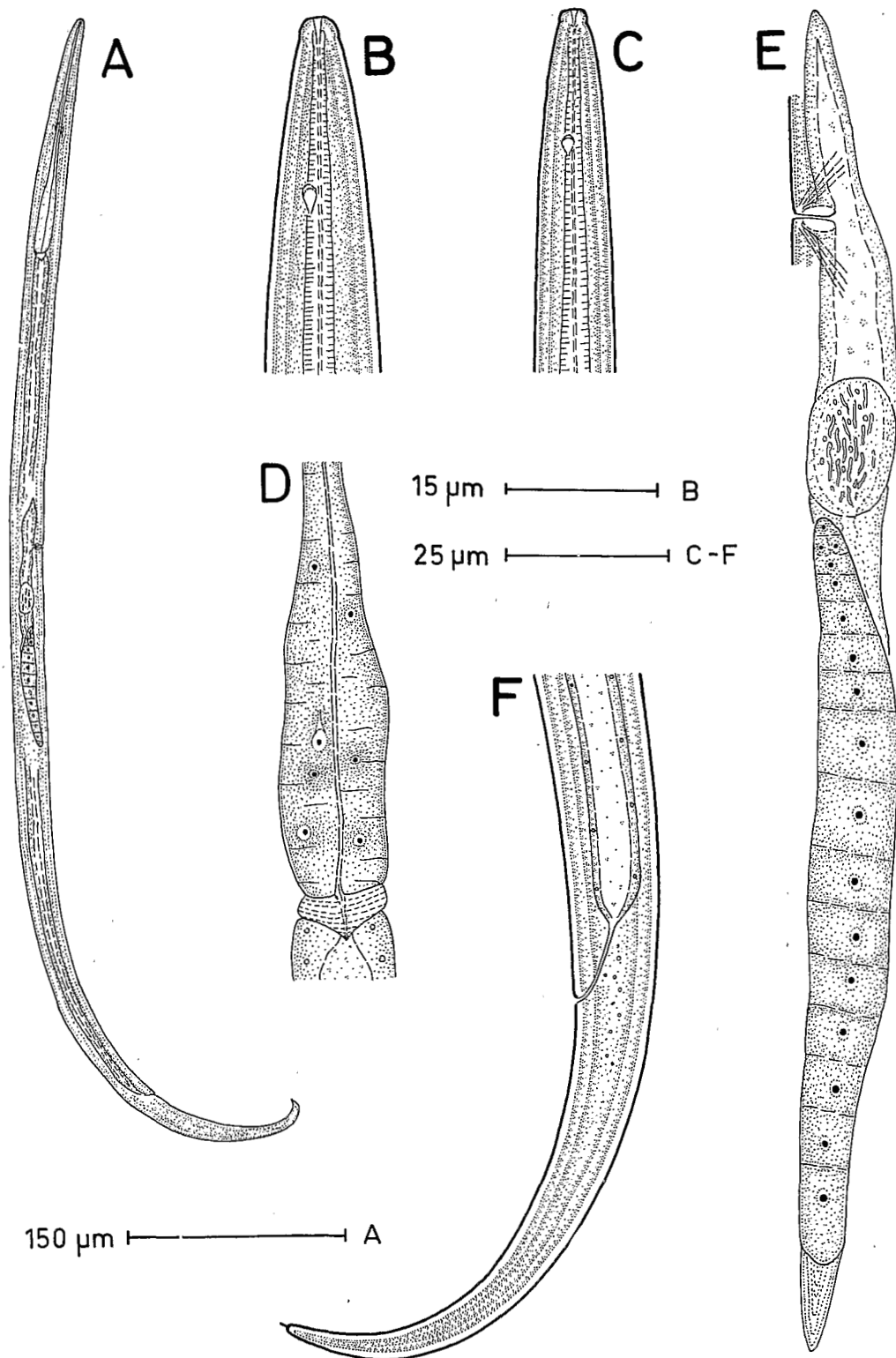


Fig. 1. *Paramphidelus saccus* n. sp. A : Entire female ; B & C : Anterior region ;  
D : Basal region of oesophagus ; E : Female genital tract ; F : Female tail.

Tail elongate-conoid, 75-98  $\mu\text{m}$  or 6-10 anal body widths long.

*Male*: Not found.

TYPE HABITAT AND LOCALITY

Soil around roots of rose, *Rosa sinensis* L., Imphal Hill, Imphal, Manipur.

TYPE SPECIMENS

Collected in August 1977.

*Holotype*: on slide *Paramphidelus saccus* n. sp./1 deposited in the Nematode Collection of the Zoology Department, Aligarh Muslim University Aligarh.

*Paratypes*: on slide *Paramphidelus saccus* n. sp./2-3 deposited in the same Collection. One paratype female deposited at Muséum national d'Histoire naturelle, Laboratoire des Vers, Paris, France.

DIFFERENTIAL DIAGNOSIS

With Andrassy's (1977) key, *P. saccus* n. sp. keys with *P. candidus* (Siddiqi & Basir, 1965) Andrassy, 1977 from which it differs in having a wider body and longer oesophagus; in size and shape of tails, shorter anterior uterine sac and slightly more posterior vulva ( $a = 57-62$ ;  $b = 4.6-4.7$ ;  $c = 4.3-4.4$ ; tail elongate-attenuated; anterior uterine sac 2.33 body widths long;  $V = 39-40$  in *P. candidus*). From *P. sylvaticus* (Siddiqi & Basir, 1965) Andrassy, 1977, *P. lemani* (Stefanski, 1914) Andrassy, 1977 and *P. paramonovi* (Eliashvilli, 1971) Andrassy, 1977,

From *P. pseudobulbosus*, which also has amphids 5-6 head widths from the head-end, it differs in having a wider body and longer tail and in presence of an anterior uterine sac and more posteriorly located vulva ( $a = 77-100$ ;  $c = 22-28$ ; anterior uterine sac absent;  $V = 49-53$  in *P. pseudobulbosus*).

***Paramphidelus samii* n. sp.**

(Fig. 2)

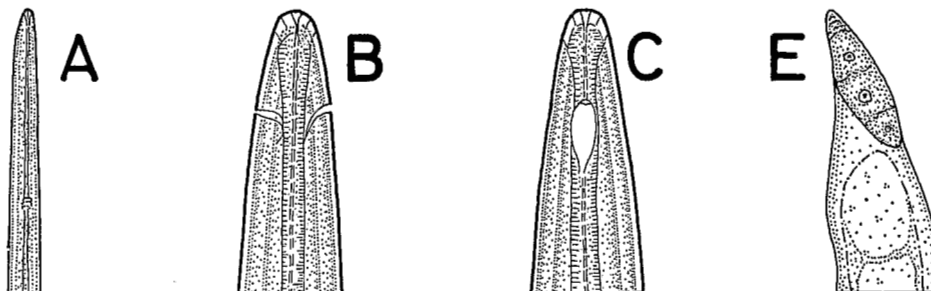
DIMENSIONS

*Female* (paratypes;  $n = 4$ )  $L = 1.2-1.3$  mm;  $a = 65-68$ ;  $b = 4.8-6.5$ ;  $c = 12-13$ ;  $c' = 8-10$ ;  $V = 41-43$ .

*Holotype* (female).  $L = 1.3$  mm;  $a = 67$ ;  $b = 4.8$ ;  $c = 12$ ;  $c' = 8$ ;  $V = 41$ .

DESCRIPTION

*Female*: Body regularly tapering towards both extremities, more curved posteriorly. Cuticle finely striated presumably only in the inner layers. Lip region continuous with body, 5-6  $\mu\text{m}$  wide or 1/4-1/3 of midbody width. Amphids elongate funnel-shaped, at 10-12  $\mu\text{m}$  or about two lip-widths from anterior extremity, amphidial apertures 3-4  $\mu\text{m}$  wide. Oesophagus 230-270  $\mu\text{m}$  long, expanded part occupying 25-29% of its length. Dorsal and three pairs of ventrosublateral oesophageal gland nuclei present. Nerve ring at 105-112  $\mu\text{m}$  from anterior



TYPE SPECIMENS

Collected in December 1980.

*Holotype*: on slide *Paramphidelus samii* n. sp./1 deposited in the Nematode Collection of Zoology Department, Aligarh Muslim University, Aligarh, India.

*Paratypes*: on slide *Paramphidelus samii* n. sp./2-4, deposited in the same Collection. One paratype female deposited at Muséum national d'Histoire naturelle, Laboratoire des Vers, Paris, France.

The new species has been named after the late Mr. Samiuddin Choudhary.

ACKNOWLEDGEMENTS

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RÉFÉRENCES

DIFFERENTIAL DIAGNOSIS