

Nematodes of high altitudes in India

VIII. *Pungentus clavatus* n. sp. with a key to species of the genus *Pungentus* (Nematoda : Dorylaimida)

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SUMMARY

Pungentus clavatus n. sp. from the Simla hills (India) is distinct from all other species of the genus in the possession of an oesophago-intestinal disc and a short, clavate tail. This new species is close to *P. silvestris* (De Man, 1912) Coomans & Geraert, 1962 but differs in having narrower amphidial apertures, smaller odontophore and different tail shape. A key to the valid species and a list of *species inquirendae* of the genus *Pungentus* are provided. Two nomenclatorial rearrangements are proposed : *P. silvestris* Eroshenko, 1976 becomes a junior synonym of *P. granosus* Eroshenko, 1976 (note that the specific name *silvestris* was preoccupied by *P. silvestris* (De Man, 1912) Coomans & Geraert, 1962) ; *P. medianus* Eroshenko, 1976 is considered a junior synonym of *P. pumilus* Andrassy, 1963.

RÉSUMÉ

Nématodes des hautes altitudes en Inde. VIII. Pungentus clavatus n. sp. et clé des espèces du genre Pungentus (Nematoda : Dorylaimida)

Les auteurs décrivent et figurent *Pungentus clavatus* n. sp., provenant des collines de Simla (Inde), qui se distingue de toutes les autres espèces du genre par une queue courte et légèrement claviforme. Proche de *P. silvestris* (De Man, 1912) Coomans & Geraert, 1962, *P. clavatus* n. sp. en diffère par des ouvertures amphidiales plus étroites, un odontophore plus petit et la forme de la queue. Une clé des espèces valides est donnée ainsi qu'une liste des *species inquirendae* du genre *Pungentus*. Deux modifications à la nomenclature sont proposées : *P. silvestris* Eroshenko, 1976 devient un synonyme mineur de *P. granosus* Eroshenko, 1976 (noter que le nom d'espèce *silvestris* était déjà occupé par *P. silvestris* (De Man, 1912) Coomans & Geraert, 1962) ; *P. medianus* Eroshenko, 1976 devient un synonyme mineur de *P. pumilus* Andrassy, 1963.

A survey of plant-parasitic and soil-inhabiting nematodes of the Simla hills yielded a new species of *Pungentus* Thorne & Swanger, 1936, *P. clavatus* n. sp., which is described and illustrated.

Measurements were taken and observation made on specimens mounted in glycerine after being killed in hot 4% formalin and dehydrated by the slow method.

Pungentus clavatus n. sp.

(Fig. 1)

DIMENSIONS

Paratypes, females (9) : L = 1.58-1.73 mm ; a = 33-35 ; b = 3.7-4.2 ; c = 68-75 ; c' = 0.56-0.63 ; V = 41-44 ; G₁ = 1-2 ; G₂ = 13-17 ; odon-



tostyle = 32-35 μm ; odontophore = 31-32 μm ;
oesophagus = 380-430 μm .

Holotype, female : L = 1.67 mm ; a = 34 ;
b = 4.1 ; c = 70 ; c' = 0.60 ; V = 41 ; G₁ =
1.7 ; G₂ = 1.6 ; odontostyle = 34 μm ; odonto-

Male

Not found.

Type habitat and locality : Soil around roots
of unidentified mosses and grasses near Jakoo

this species, as per Article 60 of the International Code of Zoological Nomenclature.

P. medianus Eroshenko, 1976 agrees closely with the description and measurements of *P. pumilus* Andrassy, 1963. Hence, we regard *P. medianus* as a junior synonym of *P. pumilus*.

Key to species of Pungentus
(Modified after Jairajpuri & Baqri, 1966)

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|---|--|
| <p>1. Odontostyle about two or more head-widths long ; slightly arcuate 2
 Odontostyle less than two head-widths long ; straight 14</p> <p>2. Body length 3.5 mm or more
 <i>textilis</i> (Thorne & Swanger, 1936)
 Thorne, 1939
 Body length 2.0 mm or less 3</p> <p>3. Ovaries two 4
 Ovary one 7</p> | <p>9. Body length 1.0 mm or less 10
 Body length 1.5 mm or more 12</p> <p>10. Body stout, lips rounded
 <i>engadinensis</i> (Altherr, 1950)
 Altherr, 1952
 Body slender ; lips angular 11</p> <p>11. Tail 11-16 μm long ; post-anal intestinal sac absent
 <i>angulatus</i> Jairajpuri & Baqri, 1966
 Tail 16-23 μm long ; post-anal intestinal sac present <i>juglensi</i> Mahajan, 1972</p> <p>12. Oesophago-intestinal disc present ; tail clavate <i>clavatus</i> n. sp.
 Oesophago-intestinal disc absent ; tail not clavate 13</p> <p>13. Lips angular ; amphidial apertures three-fourth of head-width
 <i>silvestris</i> (De Man, 1912)
 Coomans & Geraert, 1962
 Lips rounded ; amphidial apertures less than half head-width <i>maorium</i> Clark, 1963</p> <p>14. Ovary one 15
 Ovaries two 18</p> |
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22. Vulva equatorial (V = 48-51) ; tail 80 μ m long *granosus* Eroshenko, 1976
 Vulva post-equatorial (V = 50-59) ; tail less than 65 μ m 23
23. Odontostyle 15-16 μ m ; males unknown , ..
 *orthocephalus* Eroshenko, 1976
 Odontostyle 22-25 μ m ; males known ... 24
24. Body length 1.3-1.6 mm ; spicules 53-57 μ m
 *vesiculosus* Eroshenko, 1976
 Body length 1.7-2.1 mm ; spicules 73-91 μ m
 *sublatum* Eroshenko, 1976

NOT INCLUDED IN THE KEY

Species inquirendae (as in Jairajpuri & Baqri, 1966).

Pungentus ichthyuris (Cobb, 1906) Thorne & Swanger, 1936.

P. intertextus (Thorne & Swanger, 1936) Thorne, 1939.

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P. minnsi (van der Linde, 1938) Andrassy, 1960.

P. stylidens (Schuermans Stekhoven, 1951) Andrassy, 1960.

P. fuorni (Altherr, 1950) Goodey, 1963.

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