

**ENCHODELUS MUCHURIENSIS N. SP. (NEMATODA,  
DORYLAIMIDA) FROM WESTERN GEORGIA**

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(Received May 19, 2008)

**Abstract**

The paper deals with the description of the new species *Enchodelus muchuriensis* n. sp. (Nematoda, Dorylaimida) from Western Georgia. Its measurements, differential diagnosis and original pictures are given.

**Key words:** odontostile, odontophore, spicule, supplement.

***Enchodelus muchuriensis* n. sp.**

**Measurements:**

7♀: L = 0.78-0.95 mm; a=14-20; b=3.5-4.9; c=22-29; v=52-59%, odontostile - 6.6-7.7 µm; odontophore - 16.5 µm.

5♂: L = 0.78-0.82 mm; a=14-19.5; b=3.5-4.9; c=19.6-23.0; spicules: 36-36.5 µm; supplements: 6-9; odontostile - 7-7.7 µm; odontophore - 16.5 µm.

**Holotype** - ♀: L=0.78 mm; a=15; b=4.1; c=22.5; v=56%; odontostile - 7.7 µm; odontophore - 6.5 µm.

**Allotype** - ♂: L=0.79 mm; a=16; b=4.8; c=20; spicules: 37.4 µm; supplements: 6. odontostile - 7.7 µm; odontophore - 16.5 µm.

The body ventrally curved. Cuticle smooth and thin. Labial region distinctly set off from body contour. Bowl-shaped amphids with wide opening occupy about 1/2 of the body-width. Odontostile narrow, short, awl-shaped, about 6,6-7,7 µm, shorter than the labial diameter (8,8 µm). Odontophore with evident flanges two times longer than the odontostile (16.5 µm). The odontostile opening small, about 1/7 of its length. The guiding ring located in the middle of odontostile.

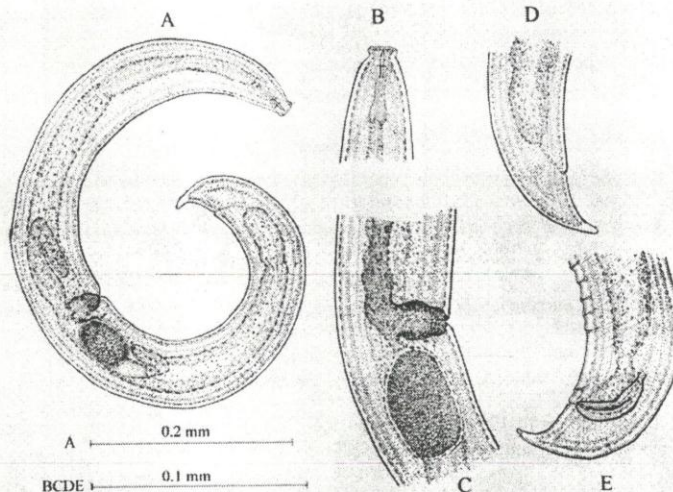
Oesophagus widen after the centre. Cardium hemispherical. Vulva transversal, postequatorial; vagina sclerotized, about 1/2 of the body width. Gonads amphidelphic, curved on the 1/2-1/3 for till vulva location. Uterus is full with sperms. Egg size 58.5-33 x 60.5-36.3µm. Length of robust spicules of males 36-35.5 µm, supplements 6-9. Prerectum of females and males 1.3-1.6 times longer than the anal body width and 2 times longer than the rectum; rectum is smaller than the anal body diameter.

Tail short, conical, curved ventrally, slightly longer than body diameter.

Differential diagnosis: the new species *Enchodelus muchuriensis* n. sp. belongs to the group of species of genus *Enchodelus* with conical, ventrally curved tail; it resembles *Enchodelus brevidentatus* Thorne, 1939 [Thorne, Capita, 1939; Eliava, Eliashvili, 1990], but differs by some distinguished features: body shorter (1.2-2 mm for *E. brevidentatus*); odontostile shorter (10-12  $\mu$ m for *E. brevidentatus*); odontophore with flange (flange absent in *E. brevidentatus*); the spicules shorter (39-42  $\mu$ m for *E. brevidentatus*) and only 6-7 supplements (9-10 in *E. brevidentatus*).

**Habitat:** near village Muchura (Western Georgia, Imereti), Racha Range, sluggy, moss.

**Materials:** glycerin slides with *Enchodelus muchuriensis* n.sp. (slides N1-4) are kept in the laboratory of Nematology of Institute of Zoology (Georgia).



**Fig. 1.** *Enchodelus muchuriensis* n.sp. (Nematoda Dorylaimida) from Western Georgia.

A - Overall view of *E. muchuriensis*; B - Female head; C - Vulva region; D - Female tail; E - Male tail, spicules and supplements

**References:**

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 Thorne G. *Capita Zoologica*, 8, 5, pp. 161, 1939.