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THE UNDESCRIBED MALE OF *LONGIDORUS EUONYMUS* MALI ET HOOPER (NEMATODA: DORYLAIMIDA) FROM SOUTHERN ITALY

by
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Summary. The male of *Longidorus euonymus* Mali et Hooper, 1974 is described for the first time. It was found in a population collected at Avellino, southern Italy, from the rhizosphere of grapevine.

Mali and Hooper (1974) described *Longidorus euonymus* from a population collected at Ivanka, Dunaji, Czechoslovakia. The male of this species was not found in the type population nor in the numerous populations reported from various localities in Italy (Roca and Lamberti, 1985), Poland (Szczygiel and Brzeski, 1985), Bulgaria (Lamberti *et al.*, 1983; Choleva *et al.*, 1985), Greece (Roca *et al.*, 1986) and Yugoslavia (Barsi, 1989).

A male of *L. euonymus* was recently identified in a population collected at Avellino, southern Italy, from the rhizosphere of grapevine. Since longidorid males have features considered to be useful as taxonomic characters, the male of *L. euonymus* is described here.

Nematodes were extracted from soil samples by Cobb's wet sieve technique, killed and fixed in 5% hot formalin, mounted in glycerin by the slow method. Specimens were measured with the aid of a camera lucida.

LONGIDORUS EUONYMUS Mali et Hooper, 1974 (Fig. 1)

The *L. euonymus* male is similar to the type female specimens but with testis not present and any sperm production; spicules sclerotized, ventrally curved, not cephalated; lateral guiding pieces bifid at distal end; two pairs of adanal supplements preceded by a series of eight ventromedian ones; tail conoid, almost straight ventrally and dorsally convex with bluntly rounded terminus; two caudal pores on each side of the tail. The morphometrics of the male *L. euonymus* are: L = 5.5 mm; a = 145.4; b = 14.7; c = 129.5; c' = 1.4; odontostyle = 88.8 μ m; odontophore = 50.5 μ m; oral aperture to guiding ring = 27 μ m; tail length = 43 μ m; H (hyalin portion of the tail) = 8.5 μ m; body diameter at lip region = 13.5 μ m; body diameter

at guiding ring = 19 μ m; body diameter at base of oesophagus = 33.5 μ m; body diameter at mid body = 38.5 μ m;

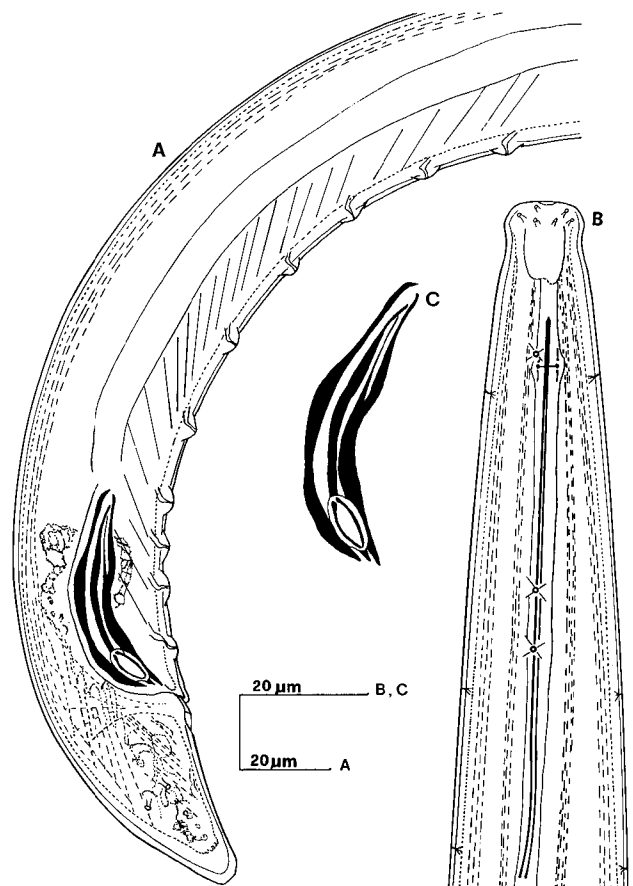


Fig. 1 - The male of *Longidorus euonymus*: A, posterior region; B, anterior region; C, spicules.

body diameter at anus = 31.5 μm ; body diameter at beginning of H = 12.5 μm ; spicules = 56.5 μm ; lateral guiding pieces = 13.5 μm .

The male specimens and females from the same population are deposited in the collection of the Istituto di Nematologia Agraria del Consiglio Nazionale delle Ricerche, Bari, Italy.

Literature cited

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