



A new species of the rare nematode genus *Margollus* Peña-Santiago, Peralta & Siddiqi, 1993 (Nematoda: Tylencholaimoidea) from Turkey

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Abstract

Margollus turcicus sp. n., is described and illustrated from vineyard soil in Turkey. The new species is characterized by having a medium sized body (L=1.0–1.2 mm); cuticle with distinct striations; radial refractive elements abundant; lip region distinctly narrower than the adjoining body and slightly offset from the body contour by a depression; cephalic and labial papillae not discernible; strong labial and post-labial sclerotization present; amphids well developed with sclerotized walls; stylet 27–28.5 µm long, odontophore distinctly flanged, 0.3 times the odontostyle length; pharyngeal bulb offset by constriction, 33–37 µm long; mono-opisthodelphic female genital system with anterior branch 22–41 µm long; spicules 49 µm long; single weak ventromedian supplement and short hemispheroid tail in both sexes.

Key words: Dorylaimida, *Margollus turcicus*, new species, taxonomy, Turkey

Introduction

Peña-Santiago, Peralta and Siddiqi (1993) established the genus *Margollus*, characterized by the presence of a well-developed cephalic framework with labial and post-labial sclerotization, cylindrical odontostyle with small aperture and dorsal stiffening piece, odontophore with well-developed flanges, pharynx with small cylindrical basal bulb, monodelphic-opisthodelphic female genital system and short convex-conoid to hemispheroid tail in both sexes. They designated *Margollus hispanicus* (Peña-Santiago & Coomans, 1990) Peña-Santiago, Peralta & Siddiqi, 1993 (= *Tylencholaimellus hispanicus* Peña-Santiago & Coomans, 1990) as the type species. They also added a new species *M. bellus* Peña Santiago, Peralta & Siddiqi, 1993 from Brazil. The genus *Margollus*, though morphologically very similar to *Tylencholaimellus* Cobb in M.V. Cobb, 1915, differs distinctly from this genus in the presence of strong labial and post-labial sclerotization.

While studying nematode material deposited in the German Nematode Collection at Biologische Bundesanstalt für Land- und Forstwirtschaft (now Julius Kühn-Institut), Münster, Germany, we came across a few specimens of this interesting rare nematode genus in a sample from Turkey. On detailed study these specimens were found to differ distinctly from the earlier two described *Margollus* species and are being described in the following as a new species, *M. turcicus* sp. n.

Material and methods

Nematodes were isolated from soil samples kindly provided by H. Elekçioğlu, formerly Giessen University, presently Adana University, Turkey, by a sieving-decanting method with final use of a Baermann funnel equipped with cotton filter, fixed with hot TAF, transferred to dehydrated glycerine by a slow evaporation method and mounted on permanent microscope slides. Observations were made using a Nikon Eclipse 80i microscope and photographs were taken with Nikon DS digital camera.