



Description of *Dorylaimoides alborzicus* sp. n. (Dorylaimida: Nematoda) from Iran, with updated compendium and key to the species of *Dorylaimoides*

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Abstract

Dorylaimoides alborzicus sp. n. is described. Characteristics of the new species include a lip region separated from the rest of body by a sharp constriction, 1.1–1.3 mm long body, 10–11 µm long odontostyle dorsal line and 8–10 µm long odontostyle ventral line, 15–16 µm long arcuate odontophore, anterior uterine sac 37–61 µm long (1.1–1.7 times corresponding body width), female tail straight to ventrally bent, elongate conoid with rounded terminus and 46–62 µm long and males with 31–35 µm long spicules, 5–6 ventromedian supplements and ventrally bent tail, 39–60 µm long. An updated identification key to all the valid species of *Dorylaimoides*, as well as a table of data for the species not included in the study by Peña Santiago and Peralta (1997b) is given.

Key words: Azad Kooh, new species, morphology, morphometrics

Introduction

The genus *Dorylaimoides* Thorne & Swanger, 1936 was comprehensively revised in a series of fine papers (Peralta & Peña Santiago, 1995a, b, c ; Peña Santiago & Peralta, 1997a, b), where many species were thoroughly reviewed and a key to the known species of the genus and a general diagnostic compendium of the measurements for all of them were furnished. Since then, however, thirteen new species have been described, a fourteenth species has been transferred from *Thornenema* by Andrassy (2009) and a fifteenth species, never described so far, has recently been found in the Alborz Mountains of Iran as a result of a survey of Iranian nematode fauna. In the present paper the new Iranian species is described; a compendium of the morphometric characters of the species described after 1997 is provided and the key to the species of the genus by Peña Santiago and Peralta (1997b) is updated.

Material and methods

Soil samples from several locations in northern cities of Iran were collected. Nematodes were extracted by suspending 200 g soil in water and using a 20 mesh sieve for collecting debris and root particles. A series of 60 and 200 mesh sieves were used to collect the nematodes. Nematodes were observed and hand picked directly under a Nikon SMZ1000 stereomicroscope. One sample from Azad Kooh, Alborz Mountains yielded a species of *Dorylaimoides* not described so far. The collected specimens were killed in hot 4% formaldehyde solution, transferred to anhydrous glycerin according to De Grisse (1969), and mounted in permanent slides. Observations were made under a Nikon E600 light microscope. Some of the best preserved specimens were photographed with an Olympus AX70 microscope and Olympus DP25 digital camera and drawings were made using a drawing tube attached to the microscope. To compare the new species with known similar species, the original data and data given in the review by Goseco *et al.*, 1976 were used. To compare with *D. bulbosus* (Brzeski & Szczygiel, 1961) Szczygiel, 1965, we used data given in its redescription (Szczygiel, 1965), and to compare with *D. arcuatus* Siddiqi, 1964, data given