

Identification of some plant parasitic nematodes of Tylenchidae and Paratylenchidae families related to fruit trees in some areas of Alborz province

F. Amiri¹, R. Asghari² and S. Seddigh^{3*}

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ABSTRACT

In order to identify the plant parasitic nematodes in Alborz Province, some soil and root tissues of plants samples were collected from different crops in of Mehrshahr, Nazarabad, Taleghan, Hashtgerd and Karaj through 2017-8. After transferring the samples to the laboratory, soil and root washing operations, nematode extraction, transferring and fixing in pure glycerin were performed. Permanent microscopic slides and incisions were made from different parts of the body of some species. After microscopic observations, the necessary measurements and drawing of the required images, the extracted species were identified using different keys. During the survey and morphological studies, eight nematode species belonging to four genera were identified as follows:

Cephalenchus leptus, *Filenchus afghanicus*, *Filenchus discrepans*, *Filenchus misellus*, *Filenchus thornei*, *Discotylenchus discertus*, *Paratylenchus Lepidus*, *Paratylenchus straeleni*

Among the identified nematodes, the species *Discotylenchus discertus* is reported for the first time in Alborz province and for the second time in Iran.

Keywords: Alborz Province, Nematode, *Discotylenchus discertus*, *Filenchus*, *Paratylenchus*

1. Former MSc. Student, Department of Plant Pathology, College of Agriculture, Varamin-Pishva Branch, Islamic Azad University, Varamin, Iran.

2. Post-Doctoral Student, Department of Plant Pathology, College of Agriculture, Zanzan University, Zanzan, Iran.

3. Assistant Professor, Department of Plant Protection, College of Agriculture, Varamin-Pishva Branch, Islamic Azad University, Varamin, Iran.

Corresponding author: seddigh@iauvaramin.ac.ir