





ABSTRACTS

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POSTERS

- NO7 A. SAEEDIZADEH, A. KHEIRI, J. ZAD, H. REZA ETEBARIAN, A. REZA BANDANI & F. NIYASTI (Shahed University, Tehran. University of Tehran, Karaj. Iran)
 - A study of the changes in quantitative activity of some enzymes in olive cultivars during the interaction between *Verticilium* wilt and root-knot nematode
- NO8 H. YILMAZ, B. FIRIDIN, I. DEMIR, M. MOENS & Z. DEMIRBAG (Giresun University, Turkey. Karadeniz Technical University, Turkey. Institute for Agricultural and Fisheries Research (ILVO), Merelbeke, Belgium. Ghent University, Belgium)
 - Virulence of the local entomopathogenic nematodes isolates against Agelastica alni L. (Coleoptera: Chrysomelidae)
- N09 T.R. STEFANOVSKA (National University of Bioresources and Environmental Science, Kley, Ukraine)
 - Challenges to grow oilseed rape Brassica napus in sugar beet rotations
- N10 A. SAEEDIZADEH, A. KHEIRI, J. ZAD, H. REZA ETEBARIAN, A. REZA BANDANI & F. NIYASTI (Shahed University, Tehran. University of Tehran, Karaj. Iran)
 - A study of interaction between Verticilium wilt Verticilium dahliae and root-knot nematode Meloidogyne javanica in olive cultivars
- M.M. ABD-ELGAWAD & S.S. KABEIL (National Research Centre, Dokki, Giza and Mubarak City for Scientific Research and Technology, Borg-Elarab, Alexandria, Egypt)
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- N12 S. SARAFRAZ NICOO, N. SAHEBANI & H. AMINIAN (University of Tehran, Iran)
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- N13 Z.C. YILMAZ, A-M. DEEREN, N. DE SUTTER & N. VIAENE (ILVO, Merelbeke, Bel-
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- N15 M. RADIVOJEVIC & <u>T. STANCIC</u> (Institute for Phytomedicine, Faculty of Agriculture, Beograd, Serbia)
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- N16 S. MENNAN, A. EKDIOGLU & S. UZUN (Ondokuz Mayıs University, Samsun, Turkey)
 - Relationship between soil nematode communities and mulching in vegetable growing greenhouses

DISTRIBUTION OF ROOT-KNOT NEMATODES (MELOIDOGYNE SPP.) IN THE WEST MEDITERRANEAN REGION OF TURKEY

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Root-knot nematodes (Meloidogyne spp.) cause serious yield losses in protected vegetables grown in the West Mediterranean region of Turkey. Ninety- four populations of root-knot nematodes (Meloidogyne spp.) were collected from different vegetable growing locations in this region. Egg masses were picked up from the plant roots using a small needle in the laboratory. Tomato seeds were germinated in steam-sterilized sandy soil in seed tray, and 2- week-old seedlings were transplanted singly into 250 ml plastic pot. Plants were inoculated at the fourth true leaf stage with single egg mass. Plants were grown at 25 °C growing chamber and harvested 8 weeks after inoculation. Root systems were carefully washed under tap water. Population was identified using morphological characteristics and molecular techniques. To identify morphological characteristics, perineal patterns were examined on a light microscopy. For molecular characterization of root-knot nematodes, firstly, DNA was extracted from egg masses with DNAeasy Tissue and Blood Kit according to the manufacturer's protocol. Secondly, the five different speciesspecific primers were used for DNA analysis of the root-knot nematode samples. According to morphological and molecular methods, Meloidogyne incognita, M. javanica and M. arenaria were identified in the West Mediterranean region of Turkey. M. incognita was found the most common root-knot nematode species in the region.