Special Issue

Biological Control of Plant Parasitic Nematodes

Message from the Guest Editors

Plant-parasitic nematodes (PPNs) cause tremendous crop damages and significant economic losses in cultivated plants all over the world. Over the past 50 years, the control of PPNs has been based primarily on the use of synthetically produced chemicals. Although chemicals were very effective, providing rapid kill of nematodes, many of those chemicals were removed from the market due to the increasing concern about environmental contamination and human risks. Additionally, the increasing adverse effects to the environment arisen from the use of chemicals have forced scientists to search for and test other means of nematodes management, such as biocontrol agents. Several attempts have been made to use antagonistic or nematophagous fungi and nematode parasitic or rhizosphere bacteria. The extensive research on biocontrol agents has resulted in the market release of some very promising bionematicides. The objective of this Special Issue is to include, in a volume, the current knowledge of the extensive research done on the use of biocontrol agents against plant-parasitic nematodes.

Guest Editors

Dr. Ioannis Giannakou

Department of Science of Crop Production, Laboratory of Agricultural Zoology and Entomology, Agricultural University of Athens, 11855 Athens, Greece

Dr. Emmanuel Tzortzakakis

Nematology Lab, Institute of Olive Tree, Subtropical Crops and Viticulture, Department of Viticulture, Vegetable Crops, Floriculture and Plant Protection, NAGREF, Hellenic Agricultural Organization - DEMETER, Kastorias street 32A, Mesa Katsabas, 71307 Heraklion, Greece

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Plants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
plants@mdpi.com

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Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

Editor-in-Chief

Prof. Dr. Dilantha Fernando
Department of Plant Science, University of Manitoba, Winnipeg, MB R3T 2N2, Canada

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