

IMPACT FACTOR 4.5





an Open Access Journal by MDPI

Plant Parasitic Nematodes Control and Host-Response

Guest Editors:

Dr. Carla Maleita

Department of Chemical Engineering, Chemical Engineering and Renewable Resources for Sustainability (CERES), University of Coimbra, 3030-790 Coimbra, Portugal

Dr. Ivânia Esteves

Department of Life Sciences, Centre for Functional Ecology -Science for People & the Planet, Associate Laboratory Terra, Calçada Martim de Freitas, University of Coimbra, 3000-456 Coimbra, Portugal

Deadline for manuscript submissions:

closed (15 September 2023)

Message from the Guest Editors

Plant-parasitic nematodes (PPN), "the unseen enemies" of plants, are a threat to a wide range of plant species, including economically important crops, affecting production, quality and yield. Although PPN are responsible for losses estimated at around USD173 billion/year, most of the growers do not recognize their importance, as the symptoms associated with their presence are unspecific.

Once PPN are established, their eradication is very difficult. The objective of management strategies is to increase crop yield by reducing the nematode population and, consequently, limiting the damage to a economically acceptable level. Nematicides have been used to minimize crop losses caused by PPN. In crop rotation fallow periods or non-hosts, resistant or immune plants to PPN species are rotated with susceptible crops. Other practices have also been used, such as the considering the time of planting and harvesting, the removal or destruction of infected host plants, flooding, biofumigation, solarization, heat treatment, steaming, the use of allelopathic plants that release nematicidal compounds into the rhizosphere, trap crops, soil amendments, biological control, etc.













an Open Access Journal by MDPI

Editor-in-Chief

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

Message from the Editor-in-Chief

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 communitys on topics of interest to the plant research community.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Plant Science)

Contact Us