

Special Issue

Progress and Innovations in Biological Control of Plant-Parasitic Nematodes

Message from the Guest Editors

Plant-parasitic nematodes (PPNs) cause significant damage to crops worldwide, leading to substantial economic losses in agriculture. The management of these nematodes is mainly performed using synthetic chemical nematicides, which pose environmental risks and often result in the development of resistance among nematode populations. As a result, there has been a growing interest in the development and implementation of biological control methods as sustainable alternatives. These alternatives can involve the use of natural enemies, such as nematophagous fungi and bacteria or new resistant plants; discovering mechanisms of resistance is useful for their implementation in susceptible but more profitable species or varieties, phytochemicals, etc. The aim of this Special Issue includes research on the identification and characterization of novel biological control methods, knowledge of the mechanisms underlying their efficacy, and the exploitation of integrated management approaches that combine biological controls with practices regularly used like crop rotations, tillage, etc.

Guest Editors

Prof. Dr. Isabel Conceição

Associate Laboratory TERRA, Department of Life Sciences, Centre for Functional Ecology-Science for People and the Planet (CFE), University of Coimbra, Calçada Martim de Freitas, 3000 456 Coimbra, Portugal

Prof. Dr. Maria José Cunha

Coimbra Agriculture School, Polytechnic University of Coimbra, Bencanta, 3045-601 Coimbra, Portugal

Deadline for manuscript submissions

closed (15 July 2025)



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



mdpi.com/si/201216

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

[mdpi.com/journal/
agronomy](https://mdpi.com/journal/agronomy)





Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



[mdpi.com/journal/
agronomy](https://mdpi.com/journal/agronomy)



About the Journal

Message from the Editor-in-Chief

Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

Agronomy is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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), GEOBASE, PubAg, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)