

## Special Issue

# Biological Control of Plant Diseases

### Message from the Guest Editors

Among microorganisms that inhabit soils, some species of bacteria and fungi are effective as biocontrol agents (BCAs). They are able to reduce the growth of plant pathogens via several mechanisms. They also induce different defense responses in host plants, such as systemic acquired resistance (SAR) and/or induced systemic resistance (ISR). Furthermore, some BCAs determine a higher tolerance of the plants against abiotic stresses due to their action in promoting plant growth and development, synergetic or antagonistic interactions between plant hormones, and antioxidant defense mechanisms. In this regard, this Special Issue aims to offer the opportunity for a challenge in sustainable agriculture, providing an up-to-date overview of the actual breakthroughs in the use of biological control of plant diseases against pathogens, parasites, and abiotic stressors. Experts and researchers are invited to contribute with original research, short communications, reviews, hypotheses, opinions, and perspectives on all topics related to biological control of plant diseases.

---

### Guest Editors

Dr. Antonella Vitti

School of Agricultural, Forestry, Food and Environmental Sciences,  
University of Basilicata, Viale dell'Ateneo Lucano 10, 85100 Potenza,  
Italy

Dr. Sabrina Sarrocco

Department of Agriculture, Food and Environment, University of Pisa,  
Via del Borghetto 80, 56124 Pisa, Italy

---

### Deadline for manuscript submissions

closed (20 May 2022)



## Plants

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.7  
CiteScore 8.5  
Indexed in PubMed



[mdpi.com/si/56014](https://mdpi.com/si/56014)

*Plants*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[plants@mdpi.com](mailto:plants@mdpi.com)

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





# Plants

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.7  
CiteScore 8.5  
Indexed in PubMed



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



## About the Journal

### 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, and 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

---

### 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 (Ecology, Evolution, Behavior and Systematics)