

Special Issue

Advances in Plant-Soil-Microbe Interactions

Message from the Guest Editor

Plants provide niches for the growth and proliferation of a variety of soil microorganisms, such as bacteria, fungi, protists, and viruses, and these microorganisms form a complex co-correlation with plants. Soil microorganisms can give plant hosts health advantages, including growth promotion, nutrient absorption, stress tolerance, and resistance to pathogens. Plants secrete secondary metabolites to recruit soil microorganisms, and rhizosphere microorganisms have the ability to be manipulated or designed to be beneficial to plants due to their co-evolution capabilities. In addition, the environment has a great influence on the genetic, biochemical, and metabolic interactions of the plant-rhizosphere microbial community. Therefore, it is essential to clarify how the interaction between plant-rhizosphere soil-microorganism shapes the assembly of plant-related microbiome and regulates its beneficial properties. This Special Issue aims to collect research on plant-soil-microbial interactions, which are related to community assembly, nutrient regulation, secretion of secondary metabolites, and regulation mechanisms.

Guest Editor

Dr. Shuo Jiao

College of Life Sciences, Northwest A&F University, Yangling 712100, China

Deadline for manuscript submissions

closed (31 August 2023)



Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/105903

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

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





Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



[mdpi.com/journal/
plants](http://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, 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)

