

Special Issue

Physiological, Biochemical and Ecological Effects of Diseases on Plants

Message from the Guest Editors

Plants are constantly exposed to different types of biotic stress. Biotic stress results from infections by different types of pathogens that induce specific host defence mechanisms. In their natural habitat, plants are usually exposed to more than one type of stress, so plant diseases are associated with a specific combination of environmental factors that can alter the plant's responses to pathogen attack and vice versa. Studying the complexity of plant diseases is equally important in both cultivated and wild species. Detailed knowledge of plant–pathogen interactions and the effects of plant diseases is required in agronomy and forestry for efficient disease control management, while studies in natural populations provide insight into the ecological implications of plant diseases and the effects of phytopathogens on plant distribution, diversity and evolution. Therefore, this Special Issue aims to bring together the latest research on the effects of disease on plants at different levels, from physiological and biochemical changes in specific genotypes to broad ecological effects on plant species and ecosystems.

Guest Editors

Dr. Zorana Katanić

Dr. Rosemary Vuković

Dr. Mirna Ćurković-Perica

Deadline for manuscript submissions

closed (31 January 2025)



Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/202252

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](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)