Special Issue

Biological Control of Plant Diseases Caused by Pathogenic Microorganisms

Message from the Guest Editor

Pathogenic microorganisms can cause crop diseases in various plants, leading to a decline in the quality and yield of crops. To more sustainably mitigate the impact of crop diseases on plant health and productivity, there is a need for safer and more eco-friendly strategies than chemical prevention. As an alternative, biological control has received increasing attention in pathogen management. The use of microorganisms or their metabolites to prevent plant diseases is eco-friendly and usually safe for food products. In recent years, quorum quenching based on quorum sensing has been adopted as a potential biocontrol approach for controlling plant diseases due to its relationship with pathogenic multi-antibiotic-resistant microorganisms. This Special Issue aims to collect research dealing with the biological control of plant diseases via quorum quenching, antagonistic microorganisms, or their metabolites that have relevance in phytopathology, microbiology, biochemistry, molecular biology, genetics, chemistry, or any omics-based science. Original investigations as well as concise review manuscripts from experts in the relevant research fields will be considered for publication.

Guest Editor

Dr. Shaohua Chen
Integrative Microbiology Research Centre, South China Agricultural University, Guangzhou 510642, China

Deadline for manuscript submissions

closed (30 November 2023)

Plants

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed

mdpi.com/si/95278

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

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

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)