



*plants*



an Open Access Journal by MDPI

## Advances in Plant-Fungal Pathogen Interaction

Guest Editors:

**Dr. Carlos Garrido**

**Dr. Victoria E. González-Rodríguez**

**Dr. Hernando José Bolívar Anillo**

Deadline for manuscript  
submissions:

**closed (31 July 2024)**

### Message from the Guest Editors

Dear Colleagues,

Fungal pathogens are widely known to be destructive, causing economically important plant diseases, especially in greenhouse crops and ornamentals, during their cultivation, storage, and distribution. In recent years, significant developments have been made in the biology of fungi at the genetic, transcriptomic, proteomic, and metabolomic levels. In this way, it has been possible to identify genes such as pathogenicity and/or virulence factors, proteins secreted and used by the fungi to cause infection, and also toxins and other metabolites synthesized by these pathogens. Although many scientific advances have been made in the development of in vitro experiments, many groups are choosing to carry out in vivo experiments, closer to reality, where the plant can develop their defense mechanisms. In this Special Issue, we want to collect articles from your research groups that study these attack mechanisms of fungal pathogens during plant infection or related with the mechanisms of infection of fungi and mechanisms of defense of host plants, including genomic, transcriptomic, proteomic, and metabolomic approaches.



[mdpi.com/si/149480](https://mdpi.com/si/149480)

# Special Issue



# *plants*



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Dilantha Fernando**

Department of Plant Science,  
University of Manitoba, Winnipeg,  
MB R3T 2N2, Canada

## 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.

## 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](#), [CAPus / SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)

## Contact Us

---

*Plants* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/plants](https://mdpi.com/journal/plants)  
[plants@mdpi.com](mailto:plants@mdpi.com)  
[X@Plants\\_MDPI](https://twitter.com/Plants_MDPI)