



The Mechanism of Pathogen Infection and Defense in Crops

Guest Editors:

Prof. Dr. Shouqiang Ouyang

College of Life Sciences, Zhejiang
Normal University, Jinhua, China

Prof. Dr. Guodong Lu

College of Plant Protection,
Fujian Agriculture and Forestry
University, Fuzhou, China

Deadline for manuscript
submissions:

30 November 2024

Message from the Guest Editors

Dear Colleagues,

Fungal pathogens in crops pose annual threats to global food security as they cause severe and often fatal diseases in crops that result in significant yield reductions and economic losses. Phytopathogenic fungi cause different symptoms (i.e., leaf spots, blights, rust, canker, vascular wilt, root rot, etc.) due to their varied molecular mechanisms, such as toxin and small-effector protein injection. However, many details of infection and plant defense against fungal infection remain unclear. The advancements in genomics and biotechnological tools achieved in recent years have enabled fast-paced research in this field, in turn revealing more molecular details and mechanisms underlying many such crop plant–pathogen interactions. This Special Issue will cover a range of recent advances in crop plant–pathogen interactions at the molecular level and cutting-edge methods of crop fungal disease control. We welcome all relevant molecular and genomic original research and review articles targeting either model plant–pathogen interactions or interactions between crops and pathogens that cause devastating damage.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture,
Water and Environment
Research, Charles Sturt
University, Wagga Wagga, NSW
2678, Australia

Message from the Editor-in-Chief

Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet. *Agronomy* is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

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), PubAg, AGRIS, and other databases.

Journal Rank: JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Agronomy and Crop Science)

Contact Us

Agronomy Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/agronomy
agronomy@mdpi.com
X@Agronomy_Mdpi