

## Special Issue

# Molecular Mechanisms of Plant Defense against Fungal Pathogens

### Message from the Guest Editors

Fungi constitute the largest number of plant pathogens. They can infect all parts of the plant at any phase, causing very diverse and devastating diseases, such as root rot, stem rust, leaf blight, ergot, and so on, which results in severe losses in yield and quality of various agricultural systems worldwide. In the long term of survival competition with pathogenic micro-organisms, plant hosts have evolved a sophisticated defense system to defend themselves against pathogens. However, rapid pathogenicity variation of natural fungal isolates leading to the occurrence of new crop diseases urges us to explore plant immune signaling pathways further and deeper, and to clone more disease resistance genes for breeding. Therefore, the aim of this Special Issue of *Plants* is to pool and publish new discoveries about molecular mechanisms of plant defense against fungal pathogens, which will highlight, but not be limited to, PTI or ETI responses, defense hormone signaling, transcriptional reprogramming, small RNA interference, metabolic pathways, and other novel immune mechanisms in plants.

### Guest Editors

Prof. Dr. Zonghua Wang

1. State Key Laboratory of Ecological Pest Control for Fujian and Taiwan Crops, Ministerial and Provincial Joint Innovation Centre for Safety Production of Cross-Trait Crops, College of Plant Protection, Fujian Agriculture and Forestry University, Fuzhou 350002, China
2. Institute of Oceanography, Minjiang University, Fuzhou 350108, China

Prof. Dr. Mo Wang

College of Plant Protection, Yunnan Agricultural University, Kunming 650201, China

### Deadline for manuscript submissions

closed (10 August 2024)



## Plants

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*Plants*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[plants@mdpi.com](mailto:plants@mdpi.com)

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### 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.

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### Editor-in-Chief

Prof. Dr. Dilantha Fernando  
Department of Plant Science, University of Manitoba, Winnipeg, MB  
R3T 2N2, Canada

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