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Molecular Mechanisms of Plant Defense against Fungal Pathogens

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

Fujian Agriculture and Forestry University, Fuzhou 350002, China

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Message from the Guest Editors

Dear Colleagues,

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 against pathogens. themselves However. 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, pathways, and other novel immune mechanisms in plants.













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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

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