



Molecular Genetics and Genomics of Plant-Pathogen Interactions

Guest Editors:

Prof. Dr. Vijai Bhaduria

Department of Plant Pathology,
College of Plant Protection,
China Agricultural University,
Beijing 100193, China

Prof. Dr. Wensheng Zhao

College of Plant Protection,
China Agricultural University,
100193 Beijing, China

Deadline for manuscript
submissions:

closed (31 October 2023)

Message from the Guest Editors

Plants lack an adaptive immune system; therefore, they rely solely on their innate immunity to fend off potential pathogens. Cell surface receptors are plasma membrane-resident pattern recognition receptors (PRRs) that detect conserved molecular signatures of potential pathogens called pathogen-associated molecular patterns (PAMPs) through direct binding. The detection of PAMPs by PRRs triggers PAMP-triggered immunity (PTI), which is very effective against the vast majority of potential pathogens roaming in the environment. The pathogens do it by subduing PTI using their effectors, which are small proteins secreted by the pathogens into the host cell cytoplasm. This dynamic interaction between effectors and plant immune network determines the outcome of plant-pathogen interactions, i.e., susceptibility or resistance. The special issue aims to provide selected contributions to this complex interplay between plants and their pathogens with genomics and genetics perspectives. In addition, the special issue also welcomes articles pertaining to pathogenomics, fungal virulence/pathogenicity, and genomes of emerging fungal pathogens of plants.





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Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

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MDPI, Grosspeteranlage 5
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