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Plant–Pathogen Interactions in Plant Breeding

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Message from the Guest Editor

The associations between plants and pathogens are important for plant productivity and plant breeding strategies. Traditional breeding has allowed the introduction of resistance in plant cultivars and varieties, but new technologies are opening the way for accelerating the development of novel breeding strategies (e.g., omic technologies). A system-based view of plant defense mechanisms and the strategies used by pathogens for plant colonization are essential to target key players that can be modified to understand gene function and to increase host resistance.

In this Special Issue, we welcome articles (original research papers, perspectives, reviews, methods) in cell biology, molecular biology, omics (genomics, transcriptomics, proteomics, metabolomics), genetics, and physiology to understand the interactions between plants and pathogens and/or provide strategies for plant breeding or improving pathogen characterization and diagnostics.



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Special Issue



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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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