

# Special Issue

## Plant Pathogenic Fungi: Genetics and Genomics

### Message from the Guest Editor

Recent advances in multi-omics approaches such as genomics and transcriptomics offer new opportunities to more clearly understand molecular mechanisms that can help in the prevention and management of fungal plant diseases. The integration of omics approaches can also speed up the identification of effectors and proteins in plant pathogenic fungi and the characterization of their virulence functions in their host plants. Moreover, as the interaction between plants and their fungal pathogens is a dynamic process, these interactions should be analyzed as a dual process, providing a more complete insight in pathogenicity. In this Special Issue, we invite you to contribute with research on any aspect related to plant pathogenic fungi. This may include, but not limited to: (1) adaptation patterns of fungal pathogens under changing environmental conditions; (2) molecular traits underlying the infection processes; (3) phylogenomic studies to offer insights into phylogenetic inference of plant pathogenic fungi; and (4) genetic basis for multi-omics analyses to provide a thorough overview on plant-pathogen interactions.

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### Guest Editor

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### Deadline for manuscript submissions

closed (31 March 2025)



## Microorganisms

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## About the Journal

### Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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### Editor-in-Chief

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