

Special Issue

New Horizons in Plant–Microbe Interactions

Message from the Guest Editors

Plants interact and cope with many different organisms, and these biotic interactions shape their growth and development. Some of these interactions are beneficial and provide an advantage, including nitrogen fixation via symbiotic associations with bacteria or nutrient supply via mycorrhiza formation. Pests and pathogens are negative factors for crop production. Furthermore, mild biotic stress could promote resilience and acclimatize plants to unfavorable conditions. This Special Issue aims to collect new findings in the field of plant–microbe interactions, including but not limited to the following aspects:

- Molecular mechanisms of plant–microbe interactions;
- Phytohormones and other secondary metabolites in plant–microbe interactions;
- Biological control and methods to promote plant resilience through interaction with beneficial microbes;
- Novel tools in breeding pathogen-resilient cultivars;
- Omics analyses to understand plant–microbe interactions, including transcriptomics, proteomics, metabolomics, lipidomics, and volatolomics studies.

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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.

Editor-in-Chief

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