

Special Issue

Molecular Mechanisms of Interactions Between Pathogenic Fungi and Host Plants

Message from the Guest Editors

Plant diseases caused by pathogenic fungi pose devastating threats to global crop production and food security. Current management strategies, such as deploying resistant cultivars or chemical treatments, often provide only short-term control due to the rapid evolution of pathogens and the complexity of agricultural ecosystems. Understanding the molecular interaction mechanisms between pathogenic fungi and their host plants is essential for developing sustainable control strategies and identifying novel targets for pesticide development. This Special Issue of *Plants* will highlight advances in fungal effector biology, host immune evasion tactics, and plant defense responses across various plant–fungus pathosystems.

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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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