

Special Issue

Interaction Mechanisms Between Crops and Pathogens

Message from the Guest Editors

The interaction between crops and pathogens is a critical area of research with significant implications for global food security and agricultural sustainability. Pathogens, including fungi, bacteria, and viruses, utilize sophisticated strategies to infect crops, leading to devastating diseases and substantial yield losses. Understanding the molecular and cellular mechanisms underlying these interactions is essential for developing effective disease management strategies. Recent advancements in genomics, proteomics, and biotechnology have provided innovative insights into the complex interplay between crops and pathogens, including pathogen virulence factors, host immune responses, and the role of environmental factors. This Special Issue aims to highlight cutting-edge research and reviews that explore the molecular basis of crop–pathogen interactions, innovative diagnostic tools, and sustainable approaches to disease control. We welcome original research and review articles on molecular and genomic analyses of model plant–pathogen interactions or interactions between crops and pathogens that cause significant damage.

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Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

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