

Special Issue

Mechanisms of Plant Resistance to Pathogens

Message from the Guest Editor

Plants are constantly subjected to biological pressures that could compromise their growth and development. As the interests of plants and pathogens are opposite and antagonistic, the evolutionary dynamics between them will never end. The arms race is triggered by the confrontation between the resistance of plants and the ability of pathogen invasion. Plant immune systems trigger a wide range of defense mechanisms to orchestrate transcriptional reprogramming through receptor proteins, signal transduction cascades, reactive oxygen species, hormone signaling pathways, and epigenetic modifications to protect plants against pathogens. The complex mechanisms of plants enable them to survive not only against single stresses but also against a combination of biotic and abiotic stresses. For this Special Issue of the journal *Pathogens*, we invite investigators to submit research papers and review articles presenting recent advances related to our knowledge of the mechanisms of plant resistance to pathogens including bacteria, fungi, and virus in agricultural and horticultural plants. We look forward to your contribution.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics.

Pathogens is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

Editor-in-Chief

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