

## Special Issue

# Physiological Aspects of Plant Response to Pathogens and Abiotic Stress—2nd Edition

### Message from the Guest Editors

The reprogramming of metabolic pathways during regular plant growth and development is well documented in the literature; however, environmental biotic and abiotic stimuli cause changes in plant primary and secondary metabolites and the functioning of various physiological processes. Plant pathogens, i.e., viruses, bacteria, and fungi-causing diseases, trigger different immune responses and influence the physiological state of host plants. Similarly, abiotic stresses, such as heavy metals, fluctuations in temperature, light intensity, or deficiencies in macro- and micronutrients can cause changes in plant physiological processes, redirecting them to a defensive mode. Moreover, so-called cross-stress or multi-stress, caused by the simultaneous influence of more than one stress factor, e.g., a combination of biotic and abiotic stresses, can also affect plant physiology, triggering various host responses at the qualitative and quantitative metabolome levels. In this Special Issue, we welcome original research papers and reviews on all aspects of plant physiology under the influence of various biotic and/or abiotic stresses.

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### Guest Editors

Dr. Violetta Katarzyna Macioszek

Prof. Dr. Iwona Ciereszko

Prof. Dr. Andrzej K. Kononowicz

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### Deadline for manuscript submissions

closed (30 October 2024)



## Plants

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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, and 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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### Editor-in-Chief

Prof. Dr. Dilantha Fernando

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