

Special Issue

Physiological Aspects of Plant Response to Pathogens and Abiotic Stress—3rd Edition

Message from the Guest Editors

The reprogramming of metabolic pathways during regular plant growth and development is widely documented in the literature; however, environmental biotic and abiotic stimuli cause changes in plants' 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 the submission of original research papers and reviews on all aspects of plant physiology under the influence of various biotic and/or abiotic stresses.

Guest Editors

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About the Journal

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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