Special Issue

Genetics and Epigenetics of Plant Response to Stress

Message from the Guest Editors

Being sessile organisms, plants are continuously interacting with their changing environment, including abiotic and biotic stresses. Major abiotic stresses include unfavorable environmental conditions such as drought. Biotic stress is triggered by living organisms, such as fungi. The interaction of plants with environment results in physiological and biomolecular responses including changes in plant phenotype and development via modulations in gene expressions through genetic and epigenetic modifications. On a short time scale, the major responses occur at the physiological level, while on a long time scale stresses may induce changes in plant development. Finally, plants also respond to their environment in a transgenerational manner, passing the memory of stress to the progeny. For this Special Issue, we invite contributions from leading plant scientists focusing on plant stress response. We encourage the submission of manuscripts addressing fundamental research describing the regulation of plant response on genetic and epigenetic levels. We are also interested in research describing the application of knowledge of stress response for the generation of stress-resistant crops.

Guest Editors

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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.

Editor-in-Chief

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