Special Issue

Molecular Responses to Abiotic Stresses and Signaling in Horticultural Plants

Message from the Guest Editor

Plants have created physiological, metabolic, and molecular complex defense systems to combat or avert abiotic stress pressures to survive. Plants have developed sensory systems to recognize external signals, enabling them to react to their surroundings in the best way. At all organizational levels, reactions to abiotic stressors take place. As a result, creating genetically modified plants by the insertion and/or overexpression of certain genes, such as the silencing of particular genes, appears to be an effective alternative to selecting for resistance in natural plants. Understanding the mechanisms underlying plant stress response and signaling can open new possibilities for crop improvement. Rapid advancements in model and non-model plant systems have considerably increased our understanding in different areas; however, there are still many knowledge gaps, particularly in the areas of early signaling events, translational and post-translational regulation of gene expression, and adaptation of growth, development, and physiology in response to stress. The current Special Issue is amiss to address the current challenges and molecular developments in horticultural crops.

Guest Editor

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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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