

Special Issue

Navigating Abiotic Stresses: Plant Responses & Management

Message from the Guest Editors

This Special Issue examines the intricate interaction between plants and their environment covering molecular mechanisms, morphological adaptations, and innovative management techniques to enhance plant survival under unfavorable conditions. Abiotic stresses such as drought, salinity, and nutrient deficiencies significantly influence plant growth and productivity. Through a complex pathway of reactions, plants respond to these stressful conditions, i.e., initiating stress perception and triggering a cascade of molecular events, to induce morphophysiological changes. Additionally, this Special Issue explores cutting-edge technologies such as precision farming, genetic engineering, and agronomic techniques, intending to enhance resilience to abiotic stresses. This Special Issue covers original research and review articles on plant response to abiotic stresses. Submissions are invited on (but are not limited to) (1) quantifying the impact of abiotic stresses on plant growth and yield, (2) unraveling key physio-biochemical pathways associated with stress tolerance, and (3) using novel technologies to protect crops from these stresses.

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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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