

Special Issue

Physiological and Genetic Responses of Crops to Abiotic Stress

Message from the Guest Editors

The physiological challenges posed by seasonal variations in extreme temperatures, excessive or inadequate water and nutrient limitations, and low soil pH are the major stresses affecting crop establishment, yield and grain quality for most major crops. These stresses are often interrelated or in conjunction with each other. Although considerable physiological work has shown that the traits conferring tolerance to these stressors are not lasting, they are frequently treated as such.

This Special Issue will focus on the physiological and genetic mechanisms of plant responses to extreme temperatures, drought, salinity, water use efficiency, low soil pH, heavy metal stress and nutrient limitations of crop varieties. This Special Issue will highlight the role of high-throughput phenotyping and genomics in the adaption of crops to abiotic stress and its possible applications in breeding climate-resilient crop varieties. We welcome the submission of all types of articles, such as original research and review papers.

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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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