Special Issue

Tolerance Response Mechanisms to Abiotic Stress in Woody Crops

Message from the Guest Editors

The journal *Plants* will be jointly publishing a Special Issue on plant tolerance. Adverse environmental conditions, such as salinity, drought, flooding, temperature, chemical toxicity, and oxidative stress, cause major loss in plant growth and crop yield and, consequently, threaten global food security. This impact is especially relevant in woody plants as a result of its long-term growth period. To counteract these effects, trees have evolved specific mechanisms for acclimation and tolerance to abiotic stresses. Plant growth and development are regulated by the integration of many environmental and endogenous signals, including plant hormones, enzymes or transporters. This issue focuses on recent studies on physiological and molecular mechanisms of abiotic stress responses in woody plants, functions of ion transporters, enzymes involved, genes that maintain plant homeostasis and the interconnection of the mechanisms at cell and whole plant level. An understanding of these mechanisms in depth should shed light on factors for the improvement of woody plants to overcome severe abiotic stress conditions.

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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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