Special Issue

Implications of Abscisic Acid in the Drought Stress Tolerance

Message from the Guest Editors

The phytohormone abscisic acid is one of the best-known stress signaling molecules in plants. ABA plays critical roles throughout a plant's life cycle mediating the responses to most of the abiotic stress. It has long been recognized that the production of abscisic acid in drying roots and its transport to the leaves play a key role in regulating leaf gas exchange and plant water status. Recently, research has focused on the roles of this molecule in drought responses and the possibility of improving plant drought tolerance via chemical manipulation and regulation of its synthesis and metabolism. This Special Issue covers all aspects of ABA and its derivatives as related to their production and molecular actions in plant drought responses and induction of drought tolerance and other related abiotic stresses. Specific interests include regulation of ABA signaling, the use of ABA-based agrochemicals, and the modulation of ABA biosynthesis. Original research articles and review papers related to novel aspects of ABA synthesis, metabolism, and applications in a variety of fields will also be included.

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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.

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