

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.

Guest Editors

Prof. Dr. Fulai Liu

Department of Plant and Environmental Sciences, Faculty of Science, University of Copenhagen, Højbakkegaard Allé 13, 2630 Taastrup, Denmark

Prof. Dr. Xiangnan Li

Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences, Changchun 130102, China

Deadline for manuscript submissions

closed (31 March 2022)



Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.5
Indexed in PubMed



mdpi.com/si/80072

Plants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
plants@mdpi.com

[mdpi.com/journal/
plants](https://mdpi.com/journal/plants)





Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.5
Indexed in PubMed



[mdpi.com/journal/
plants](https://mdpi.com/journal/plants)



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, 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.

Editor-in-Chief

Prof. Dr. Dilantha Fernando
Department of Plant Science, University of Manitoba, Winnipeg, MB
R3T 2N2, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)