

## Special Issue

# The Role of Signaling Molecules in Plant Stress Tolerance

### Message from the Guest Editors

Terrestrial plants are sessile organisms, meaning that they are permanently restricted to one place and cannot move away from harsh environmental conditions that can negatively affect their growth and development. As a result of their inability to escape, plants have evolved a wide range of effective biochemical and physiological mechanisms and efficient signal transduction pathways to rapidly respond and adapt to these stress conditions. Extracellular environmental stimuli are transmitted via signaling cascade into intracellular signals by the help of multiple signaling molecules. Plants produce numerous structurally and functionally diverse signaling molecules, including different plant hormones, reactive oxygen species (ROS) and reactive nitrogen species (RNS), proteins, amino acids, nucleotides, vitamins, NO, etc. They are essential for the regulation of growth and development of plants as well as for the activation of protective responses to both biotic and abiotic stresses. We invite original research and review articles that will expand our understanding of the significance of signaling molecules in the response of plants to adverse environment.

### Guest Editors

Dr. Azamat M. Avalbaev

Institute of Biochemistry and Genetics, Ufa Federal Research Centre  
RAS, 450054 Ufa, Russia

Dr. Oksana Lastochkina

Institute of Biochemistry and Genetics, Ufa Federal Research Centre  
RAS, 450054 Ufa, Russia

### Deadline for manuscript submissions

closed (30 June 2025)



## Plants

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*Plants*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[plants@mdpi.com](mailto:plants@mdpi.com)

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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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### Editor-in-Chief

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

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