

## Special Issue

# Plant Challenges in Response to Salt and Water Stress

### Message from the Guest Editors

Abiotic stress, more specifically saline and water stress, poses a significant threat to plants' survival and productivity, causing substantial losses in global crop yields. The adverse effects caused by water stress (drought and flood) and saline stress are maximized with environmental conditions. Consequently, there is a pressing need for comprehensive research delving into the molecular, cellular, tissue, anatomical, morphological, and physiological mechanisms underlying plants' resilience to salt and water stress. This Special Issue aims to collate insights into plant responses to salt and water stress and propose innovative strategies for enhancing their resilience. By synthesizing a wealth of information, we aspire to advance our understanding of plants' adaptation mechanisms and foster the development of effective solutions to mitigate the impact of salt and water stress. We invite research articles that address the following topics: ROS; salinity; drought; flood stress; signaling molecules; antioxidants; and oxidative stress.

### Guest Editors

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### Deadline for manuscript submissions

closed (30 July 2025)



## Plants

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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, 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.

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### Editor-in-Chief

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