Special Issue

Metabolic Responses to Abiotic Stress in Plants: Latest Advances and Prospects

Message from the Guest Editor

This Special Issue of Metabolites focuses on the metabolic changes in plants in response to abiotic stress. The global environment is changing rapidly, and extreme temperatures, drought, salinity and heavy metal toxicity are constantly challenging plant growth. The potential topics of relevance to this SI cover various aspects of abiotic stress metabolism, including the accumulation of compatible sol-vents, activation of the antioxidant system, regulation of energy metabolism and changes in lipid metabolism. Understanding these metabolic changes will be crucial to developing strategies for enhancing plant stress tolerance and increasing productivity in challenging environments. This Special Issue aims to provide valuable insights into the complex mechanisms underpinning the metabolic response to plant biosecurity.

Guest Editor

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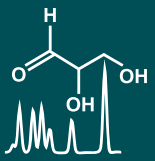
Deadline for manuscript submissions

closed (31 July 2025)



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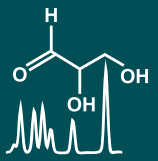

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About the Journal

Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

Editor-in-Chief

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