



Metabolic Responses to Environmental Stresses in Plants

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Message from the Guest Editor

Metabolomics has emerged as an integral part of the systems biology approach and other -omics platforms to explore different aspects of the molecular and physiological changes caused by environmental stresses in plants. There is limited knowledge on the system-level differences among the metabolites induced in response to stresses such as temperature, water, salt, heavy metals, or a combination of multiple stresses. Recent advances in analytical and -omics technologies have allowed the rapid simultaneous detection of thousands of metabolites and exploring the underlying stress-induced molecular pathways. We welcome studies that use cutting-edge tools to better understand stress-induced responses using the classic metabolite signatures such as proline, branched-chain amino acids, γ -amino butyrate, polyamines, or sugars under stress conditions. We are also inviting you to share studies that expand our understanding of stress-induced metabolites by exploring the species-level responses, natural genetic variation, specific production practices, synergistic/antagonistic effects during multiple stresses and developmental changes.





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Message from the Editor-in-Chief

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