Special Issue

Metabolic Responses to Environmental Stresses in Plants

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, □-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.

Guest Editor

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Message from the Editor-in-Chief

Horticultural plants and their products provide sustenance, health, and beauty. A confluence of factors is putting increasing pressure on horticultural production to evolve, and innovative research is addressing these challenges. *Horticulturae* provides a venue to communicate research results in a rapid manner with open access, allowing everyone the opportunity to stay abreast of leading research addressing horticulture. I invite you to consider publishing the results of your research in this high quality, peer-reviewed journal.

Editor-in-Chief

Prof. Dr. Luigi De Bellis
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