Special Issue

Role of Metabolomes for Plant Health

Message from the Guest Editors

Metabolomics in plant research is gaining tremendous attention due to its natural, nutritional, and functional importance for promotion of human health. Moreover, metabolomics also plays a key role in plants, such as to attract pollinators, repel herbivores, combat microbial pathogens, provide protection from environmental stresses, as well as performing other physiological processes. Metabolites and their concentrations, unlike other "omics" (genomics, transcriptomics, and proteomics), directly reflect the biochemical activity and state of cells or tissues. An estimated amount of 200,000 metabolites across the plant kingdom have been found, which has enabled plants to be regarded as a natural medicine. The chemistry of plants is very complex in nature due to various metabolic reactions, such as binding, dissociation, degradation, modification, and transport from one part to the other. These observations emphasize the need to undergo further metabolomics study to better understand the role of metabolomes in plants.

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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

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