



Role of Metabolomes for Plant Health

Guest Editors:

Dr. Awraris Derbie Assefa

National Agrobiodiversity Center,
National Institute of Agricultural
Sciences, Rural Development
Administration, Jeonju 54874,
Republic of Korea

Dr. Minaleshewa Atilabachew

Bahar Dar University, Bahar Dar,
Ethiopia

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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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Editor-in-Chief

Prof. Dr. Luigi De Bellis

Department of Biological and Environmental Sciences and Technologies, Università del Salento, Centro Ecotekne, Via Provinciale Lecce Monteroni, 73100 Lecce, Italy

Message from the Editor-in-Chief

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Horticulturae Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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