Special Issue

Plant Metabolome and Metabolomics

Message from the Guest Editor

Studies of the plant metabolome and metabolomics tools provide powerful opportunities for understanding plant responses to environmental and genetic factors, with significant applications in biotechnology, crop improvement, and sustainable agriculture as well as the production of unique drugs for human health. This Special Issue will highlight cutting-edge research using metabolomics to explore metabolic pathways, plant adaptation mechanisms, and innovative biotechnological approaches. We aim to bring together studies focusing on new and unique metabolites and modern techniques to analyze their structure and function in the life of plants, including current advances in their mass production for biomedical purposes. Genetic manipulation of their biosynthesis in plants is an integral component of these processes. The scope includes high-throughput metabolomics techniques for analyses and advances in data processing and bioinformatics. We encourage contributions that explore quantitative approaches, novel data integration strategies, and their applications in understanding plant responses to environmental and genetic factors.

Guest Editor

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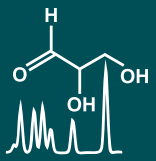
Deadline for manuscript submissions

31 January 2026



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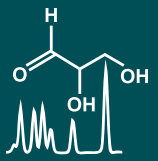

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About the Journal

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

Dr. Amedeo Lonardo
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