# Special Issue

# Modern Methods and Practical Applications of Metabolomics to Food Science and Nutrition

## Message from the Guest Editors

Food metabolomics is the application of metabolomics in food systems, which undoubtedly contribute to a greater biochemical understanding of foods, as well as a molecular comprehension of bioactivities or changes in food production processes. Metabolomics is also a valuable tool for determining the authenticity of food, which has been used to evaluate several problems such as food safety, food quality, authenticity, and traceability. It can be also used to define hundreds of compounds in foods, identify food byproducts in human biofluids or tissues, characterise nutrient deficits or excesses. follow biochemical reactions to dietary treatments, and track eating habits. This Special Issue of Metabolites will address both qualitative and quantitative analytical methodologies used to examine food metabolites holistically in connection to medicinal and nutritive variables. We will evaluate research papers with a particular emphasis on analytical breakthroughs that can be used to boost food metabolome coverage, as well as improved detection or extraction methodologies. Manuscripts dealing with the application of metabolomics in food-gut interaction are highly encouraged.

#### **Guest Editors**

Dr. Ahmed Mediani

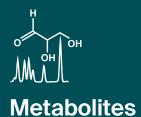
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### Deadline for manuscript submissions

closed (30 September 2023)



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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.4 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the first half of 2025).

