

## Special Issue

# Metabolomic Fingerprinting: Challenges and Opportunities

### Message from the Guest Editors

We are organizing a Special Issue entitled “Metabolomic Fingerprinting: Challenges and Opportunities” for *Metabolites* (MDPI). Metabolomic fingerprinting offers holistic analysis of small endogenous molecules but faces analytical challenges due to the chemical diversity and concentration ranges of metabolites. Advanced techniques like High-Resolution Mass Spectrometry (HRMS), Two-Dimensional Liquid Chromatography (2D-LC), Capillary Electrophoresis (CE), Gas Chromatography (GC), and Ion Mobility Spectrometry (IMS) enhance metabolic coverage, helping to discover biomarkers and understand physiological mechanisms. Despite their high sensitivity, these techniques require advanced optimization and data analysis. This Special Issue will highlight cutting-edge approaches, focusing on both challenges and opportunities in understanding complex metabolomic profiles. We welcome articles and reviews, among other papers, to this Special Issue.

### Guest Editors

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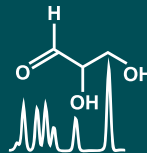
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### Deadline for manuscript submissions

30 May 2025



## Metabolites

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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

1. Formerly Director of the Simple Operating Unit "Metabolic Syndrome", Azienda Ospedaliero-Universitaria, 41126 Modena, Italy
2. Formerly Professor of Internal Medicine, School of Specialization of Allergology and Clinical Immunology, University of Modena and Reggio Emilia, 41121 Modena, Italy

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