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

Dr. Christina Virgiliou

Analytical Chemistry Laboratory, Department of Chemical Engineering, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece

Dr. Olga-Angeliki Begou

1. School of Chemistry, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece
2. Biomic_AUTh, Center for Interdisciplinary Research and Innovation (CIRI-AUTH), Balkan Center, B1.4, 57001 Thermi, Greece

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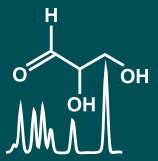
Metabolites
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metabolites@mdpi.com

mdpi.com/journal/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
Internal Medicine, Ospedale Civile di Baggiovara, Azienda Ospedaliero-Universitaria, 41126 Modena, Italy

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