Special Issue

Analytical Developments in Mapping the Polar Metabolome

Message from the Guest Editors

Metabolomics-based studies still face significant analyti-cal challenges, mainly by virtue of the physicochemical diversity of endogenous compounds and their different concentration ranges, whose investigation requires more advanced analytical strategies. Hence, until now, no indi-vidual analytical method has been able to determine the properties of all metabolites/lipids. Liquid chromatog-raphy-mass spectrometry (LC-MS) represents a major technological advancement in the field; the recent develop-ment and evolution of metabolomics-based methodologies have contributed to discovering novel, promising and validated biomarkers, as well as elucidating novel pathophysiological mechanisms. Mhe continuous exploration and analysis of new systems, using state-ofthe-art technologies, could solve remaining challenges in analytical and bioanalytical chemistry and help establish accurate tools for exploring major pathways and molecules critical for several mechanisms of life. The current SI aims to present the most recent approaches and perspectives with regard to the application of LC-MS in mapping the polar metabolome.

Guest Editors

Dr. Olga Angeliki Begou

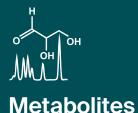
- 1. Department of Chemistry, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece
- 2. Biomic_AUTh, Center for Interdisciplinary Research and Innovation (CIRI-AUTH), Balkan Center, 10th km Thessaloniki-Thermi Rd, 57001 Thessaloniki, Greece

Prof. Dr. Georgios Theodoridis

- 1. Department of Chemistry, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece
- 2. Biomic_AUTh, Center for Interdisciplinary Research and Innovation (CIRI-AUTH), Balkan Center, 10th km Thessaloniki-Thermi Rd, 57001 Thessaloniki, Greece

Deadline for manuscript submissions

closed (20 November 2023)



an Open Access Journal by MDPI

Impact Factor 3.7 CiteScore 6.9 Indexed in PubMed



mdpi.com/si/133666

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

mdpi.com/journal/metabolites





Metabolites

an Open Access Journal by MDPI

Impact Factor 3.7 CiteScore 6.9 Indexed in PubMed



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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q2 (Endocrinology, Diabetes and Metabolism)

Rapid Publication:

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).

