

## Special Issue

# Meeting the Challenge of Metabolomics Analysis by Using Multidimensional Gas Chromatography with Mass Spectrometry

### Message from the Guest Editors

Over the preceding two decades, multidimensional gas chromatography (MDGC) and its incarnation, comprehensive two-dimensional gas chromatography (GC×GC), have emerged as powerful bioanalytical tools for the study of metabolomics in many branches of life sciences. The hyphenation of GC×GC to mass spectrometry (MS) has further developed into a “super-resolution” technique that provides improved separation, detection, and identification of complex metabolomes. Notably, the utilization of multiple separation dimensions and the informing power of MS, especially high-resolution MS, have significantly expanded the coverage of detectable metabolites in biological matrices of living systems compared with GC–MS methods. In this Special Issue, we invite authors to disseminate their findings on the recent developments and applicability of MDGC and GC×GC–MS in advancing metabolomics studies. Submissions are welcome in the form of original research and review articles. We look forward to your valuable contributions.

### Guest Editors

Dr. Yong Foo Wong

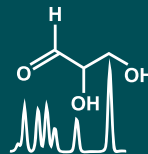
Centre for Research on Multidimensional Separation Science, School of Chemical Sciences, Universiti Sains Malaysia, Penang 11800, Malaysia

Prof. Dr. Philip J. Marriott

Australian Centre for Research on Separation Science, School of Chemistry, Monash University, Clayton, Australia

### Deadline for manuscript submissions

closed (31 May 2026)



## Metabolites

an Open Access Journal  
by MDPI

Impact Factor 3.7  
CiteScore 8.1  
Indexed in PubMed



[mdpi.com/si/164545](https://mdpi.com/si/164545)

*Metabolites*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[metabolites@mdpi.com](mailto:metabolites@mdpi.com)

[mdpi.com/journal/  
metabolites](https://mdpi.com/journal/metabolites)





# Metabolites

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.7  
CiteScore 8.1  
Indexed in PubMed



[mdpi.com/journal/  
metabolites](https://mdpi.com/journal/metabolites)



## 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 - Q1 (Endocrinology, Diabetes and Metabolism)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.7 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the second half of 2025).