

# Topical Collection

## Advances in Metabolomics

### Message from the Collection Editors

At present, metabolomics is a mature research field with a considerable track-record of successful applications, especially in the domains of biomedical and agricultural sciences. During the last decade, it has become a valuable instrument for providing insights into the molecular mechanisms of numerous phenomena, thus contributing to the characterization of the biological functioning of living systems. Albeit no more in its infancy stage, metabolomics still needs constant technological improvement to be exploited to its full potential. For this reason, this Topical Collection aims to publish high-quality research papers or systematic reviews discussing bleeding edge innovative approaches that will boost metabolomics to the very vanguard of its technological advancement.

Without restrictions to any particular field of application or analytical platform, innovative aspects can be related to 1) pre-analytical and analytical protocols, 2) instrumental development, 3) sample collection and data acquisition strategies, 4) data analysis algorithms, tools, and software, 4) multi-omic and multi-platform studies, and 5) groundbreaking applications with a high technology readiness level.

### Collection Editors

Dr. Leonardo Tenori

1. Magnetic Resonance Center (CERM), University of Florence, 50019 Sesto Fiorentino, Italy
2. Department of Chemistry "Ugo Schiff", University of Florence, 50019 Sesto Fiorentino, Italy
3. Consorzio Interuniversitario Risonanze Magnetiche MetalloProteine (CIRMMP), 50019 Sesto Fiorentino, Italy

Dr. Edoardo Saccenti

Systems and Synthetic Biology, Wageningen University and Research, Wageningen, The Netherlands



## Metabolites

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

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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.

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### Editor-in-Chief

Dr. Amedeo Lonardo

Internal Medicine, Ospedale Civile di Baggiovara, Azienda Ospedaliero-Universitaria, 41126 Modena, Italy

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#### 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).