

# Special Issue

## New Tools for Metabolomics

### Message from the Guest Editors

Metabolomics, the process of identifying and quantifying metabolites within a cell, tissue, or organism, provides functional information that represents the sum of actions by genes, RNA, proteins, and external factors. The richness of metabolic information has stimulated research for more than a century, but the technology for delivering more comprehensive data about metabolic components and the corresponding pathway dynamics has only been available for a short time. Nuclear magnetic resonance (NMR) spectroscopy, high-resolution mass spectrometry, integration of methodologies and tools, and powerful software tools have led to rapid advances and accelerated research opportunities. In this Special Edition, we have invited a selection of emerging techniques, established methodologies, and technological innovations in order to provide a timely overview of the current state-of-the-art. By inviting authors that represent a diverse cross-section of research efforts in the field, this issue aims to forecast a vision for the future of tools, methodologies, and technologies that will advance the state-of-the-art of research in the field.

### Guest Editors

Dr. Hamid Eghbalnia

Director of Analytics, Technology Development, University of Wisconsin-Madison, Madison, WI 53706-1544, USA

Prof. Dr. John L. Markley

Biochemistry Department, University of Wisconsin-Madison, 433 Babcock Drive, Madison, WI 53706, USA

### Deadline for manuscript submissions

closed (31 July 2020)



## 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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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).