



## Metabolomics of Complex Traits

Guest Editor:

**Prof. Dr. Guangju Zhai**

Faculty of Medicine, Memorial  
University of Newfoundland, St.  
John's, NL A1B 3V6, Canada

Deadline for manuscript  
submissions:

**closed (31 March 2019)**

### Message from the Guest Editor

Dear Colleagues,

Metabolites represent both the downstream output of the genome and the upstream input from the environment, and are directly linked to the cellular function and phenotypes. The study of metabolites not only enables the identification of disease biomarkers but also provides unique insights into the fundamental causes of disease. Recent advances in metabolomics technologies results in a growing number of applications in biomedical research of complex traits, and such applications have already identified a number of unexpected chemical causes or metabolic pathways for several important complex diseases including atherosclerosis, diabetes, cancer, and osteoarthritis. In this Special issue, we seek both review articles and original research with a focus on studies of metabolomics in complex diseases and traits, which will provide all readers with an overview of the application of metabolomics in complex disease and summarize the most recent new knowledge and advances in the field.

- Metabolomics (MS-based and NMR-based)
- Targeted and Untargeted Metabolomics
- Biomarker Discovery
- Complex Diseases and Traits
- Pharmacometabolomics
- Precision Medicine





an Open Access Journal by MDPI

## Editor-in-Chief

### Dr. Amedeo Lonardo

1. Formerly Director of the Simple Operating Unit "Metabolic Syndrome", Azienda Ospedaliero-Universitaria, 41126 Modena, Italy  
2. Formerly Professor of Internal Medicine, School of Specialization of Allergy and Clinical Immunology, University of Modena and Reggio Emilia, 41121 Modena, Italy

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPUS / SciFinder, and other databases.

**Journal Rank:** JCR - Q2 (*Biochemistry & Molecular Biology*) / CiteScore - Q2 (*Endocrinology, Diabetes and Metabolism*)

## Contact Us

Metabolites Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/metabolites](http://mdpi.com/journal/metabolites)  
[metabolites@mdpi.com](mailto:metabolites@mdpi.com)  
X@MetabolitesMDPI