



## Investigation of Host Metabolism by Utilizing LC-MS based Metabolomics/Lipidomics Approaches

Guest Editors:

**Dr. Bingpeng Yan**

The Department of Microbiology,  
School of Clinical Medicine,  
Faculty of Medicine, The  
University of Hong Kong, Hong  
Kong 999077, China

**Prof. Dr. Haitao Lyu**

School of Chinese Medicine,  
Hong Kong Baptist University,  
Hong Kong 999077, China

Deadline for manuscript  
submissions:  
**closed (31 January 2024)**

### Message from the Guest Editors

Dear Colleagues,

Metabolomics and lipidomics are scientific studies aiming to comprehensively characterize the metabolome/lipidome within cells, biofluids, tissues, or organisms. Mass spectrometry (MS), a powerful analytical tool, is frequently used to perform metabolomics/lipidomics studies that could provide the sensitive and reproducible detection of hundreds to thousands of metabolites/lipids. Measuring such alterations and understanding the pathways involved is crucial to fully understanding cellular metabolism and potential mechanisms of disease.

This Special Issue is devoted to metabolomics/lipidomics studies in the context of infectious diseases. Covered topics will include (not exclusively) metabolomics/lipidomics of the host response upon pathogen infections such as lipid/metabolic profile characterization post infections, key host factor identification, antipathogenic lipids/metabolites discovery and validation, antipathogenic drug candidates (host enzyme inhibitor, natural product, active compounds) development, host-pathogen interactions, and potential mechanism upon pathogen infections.





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 Allergology 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