



an Open Access Journal by MDPI

Mass Spectrometry Imaging: Theory, Methods and Applications in Biochemical and Pharmaceutical Research

Guest Editor:

Dr. Xiaowei Song

Institute of Biopharmaceutical
and Health Engineering,
Shenzhen International Graduate
School, Tsinghua University,
Shenzhen 518055, China

Deadline for manuscript
submissions:

closed (31 July 2024)

Message from the Guest Editor

Mass spectrometry imaging (MSI) has demonstrated great power in terms of its capacity to assess spatial information concerning various types of molecules (metabolites, lipids, glycans, proteins, drugs, nucleotides, metals, etc.) across the whole-body animal, including tissue, organs, plants, bacteria, and single cells. These techniques can even obtain information at a sub-cellular resolution. The scope, depth, and complexity that an MSI system can handle heavily rely on new technical and methodological developments irrespective of sample preprocessing (cleanup, derivatization, digestion, cleavage, labeling), in situ ionization, coupling with various mass analyzers and ion mobility, data science for high-dimensional MSI data processing, multi-modular images registration, high-definition image prediction, and bio-information integration. Therefore, this Special Issue invites scholars to submit research related to MSI theory, methods, and applications in biochemical and pharmaceutical research.



mdpi.com/si/177851

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Dr. Amedeo Lonardo

Internal Medicine, Ospedale
Civile di Baggiovara, Azienda
Ospedaliero-Universitaria, 41126
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, CAPlus / SciFinder, and other databases.

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

Contact Us

Metabolites Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/metabolites
metabolites@mdpi.com
[X@MetabolitesMDPI](https://twitter.com/MetabolitesMDPI)