

New Frontier in Mass Spectrometry Imaging for Metabolomics and Lipidomics

Guest Editor:

Prof. Dr. Shuichi Shimma

Department of Biotechnology,
Graduate School of Engineering,
Osaka University, Osaka 565-
0871, Japan

sshimma@bio.eng.osaka-u.ac.jp

Deadline for manuscript
submissions:

15 June 2022

Message from the Guest Editor

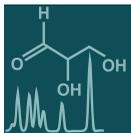
Dear Colleagues,

Since the first report in 1997, mass spectrometry imaging (MSI) has been applied in various fields, including medicine and basic biology, due to the development of techniques for sample preparation, analysis, and informatics for data processing; it is no exaggeration to say that it has become one of the main fields of molecular imaging. This Special Issue provides an overview of current MSI, including basic and applied research on sample preparation methods for MSI in metabolomics and lipidomics and new measurement methods using state-of-the-art instruments. Therefore, it will cover applied studies conducting MSI on various samples such as human, animal, and cultured cells, as well as bacteria; this can be in the context of, but is not limited to, the application of metabolomics and lipidomics methods in medicine or biotechnology, data mining methods based on nontargeted analytical data, and high-sensitivity quantitative methods in MSI. Manuscripts addressing other relevant and challenging problems are also strongly encouraged.

Prof. Dr. Shuichi Shimma

Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Peter Meikle

Metabolomics Laboratory
NHMRC, Baker Heart and
Diabetes Institute, Melbourne,
Victoria 3004, Australia

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 many other databases.

Journal Rank: JCR - Q2 (*Biochemistry & Molecular Biology*)

Contact Us

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

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

mdpi.com/journal/metabolites
metabolites@mdpi.com