



## Mass Spectrometry-Based Metabolomics: Challenges and Applications

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### Message from the Guest Editors

Dear Colleagues,

This Special Issue encourages authors to submit new scientific applications and challenges associated with mass spectrometry-based metabolomics in the format of research and review articles.

Mass spectrometry is one of the primary analytical platforms used to explore the metabolome, as it is highly sensitive and versatile for chemical analyses. Furthermore, advancements in ambient ion generation techniques, with little to no sample preparation, have broadened mass spectrometry-based metabolomics applications. Yet, many challenges have been identified thus far in the field, including metabolite annotation in discovery-based studies, validation of proposed biomarkers, and the translation of findings from health-related investigations into clinical settings.

Metabolomics combines the expertise of analytical chemists, biochemists, statisticians, biologists, computational scientists, and medical doctors, among others. As such, we are pleased to receive contributions from these disciplines and scientific groups around the world working to move this exciting, comprehensive, and versatile field forward.

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*Guest Editors*





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## 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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