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Mass Spectrometry-Based Metabolomics: Challenges and Applications

Guest Editors:

Dr. María Eugenia Monge
Centro de Investigaciones en Bionanociencias, Godoy Cruz 2390, C1425FQD, Ciudad de Buenos Aires, Argentina

maria.monge@cibion.conicet.gov.ar

Dr. Christina M. Jones
National Institute of Standards and Technology, Gaithersburg, United States

christina.jones@nist.gov

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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.

Dr. María Eugenia Monge
Dr. Christina M. Jones
Guest Editors

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Special Issue

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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.

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CiteScore (2018 Scopus data): **3.75**, which equals rank 34/211 (Q1) in the category 'Endocrinology, Diabetes and Metabolism', rank 88/407 (Q1) in 'Biochemistry' and rank 106/375 (Q2) in '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