Special Issue

Advances in Gas Chromatography–Mass Spectrometry-Based Targeted Metabolomics

Message from the Guest Editors

Gas Chromatography–Mass Spectrometry has historically been a key technology in the field of metabolomics. It is a robust, reproducible, cost-effective platform that is capable of analysing both volatile and non-volatile metabolites. In recent years, there has been a greater shift toward the use of Liquid Chromatography–Mass Spectrometry. Despite this, there have been significant advances in targeted GC-MS metabolomics techniques, where the comprehensive targeted profiling of various metabolite classes enables high-throughput analysis with high-confidence metabolite annotation. This provides an excellent opportunity to observe global metabolic shifts in the biological system of interest, and the use of targeted methods can then be applied to further understand these dynamic metabolic changes through the use of stable isotope labelling techniques. It is for these reasons that it is important to highlight the place that GC-MS still has as a key technology in the field of metabolomics. Therefore, this Special Issue will aim to showcase the utility of targeted GC-MS metabolomics.

Guest Editors

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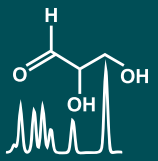

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Message from the Editor-in-Chief

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.

Editor-in-Chief

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