

Special Issue

Analytical Developments in Mapping the Polar Metabolome

Message from the Guest Editors

Metabolomics-based studies still face significant analytical challenges, mainly by virtue of the physicochemical diversity of endogenous compounds and their different concentration ranges, whose investigation requires more advanced analytical strategies. Hence, until now, no individual analytical method has been able to determine the properties of all metabolites/lipids. Liquid chromatography-mass spectrometry (LC-MS) represents a major technological advancement in the field; the recent development and evolution of metabolomics-based methodologies have contributed to discovering novel, promising and validated biomarkers, as well as elucidating novel pathophysiological mechanisms. The continuous exploration and analysis of new systems, using state-of-the-art technologies, could solve remaining challenges in analytical and bioanalytical chemistry and help establish accurate tools for exploring major pathways and molecules critical for several mechanisms of life. The current SI aims to present the most recent approaches and perspectives with regard to the application of LC-MS in mapping the polar metabolome.

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About the Journal

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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