

Special Issue

Mass Spectrometry-Based Metabolomics Identification of Plant Components

Message from the Guest Editor

Metabolomics is a central tool for studying plant physiology, evaluating the quality of food crops, and exploring bioactive natural products. In the analysis of complex plant materials, mass spectrometry (MS) is used in combination with upstream sample extraction and separation to quantify and identify metabolites. Since all natural compounds are built from the same chemical building blocks with intrinsic mass and predictable physical properties, MS is a universal analytical method. However, the vast chemical diversity of plant metabolites and their dynamic range in mixtures make it challenging to annotate signals. In addition, novel analytical tools, such as ambient ionization, MS imaging, and real-time monitoring, require custom data processing. This Special Issue presents strategies and examples for the MS-based identification of plant components, such as software, databases, instrumentation, and analytical and informatic workflows.

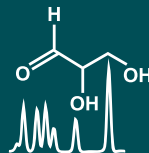
Guest Editor

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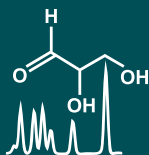


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About the Journal

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.

Editor-in-Chief

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