

Special Issue

Applications of Mass Spectrometry in the Analysis of Bioactive and Plant Organic Compounds

Message from the Guest Editor

Mass spectrometry (MS) is a versatile and powerful analytical technique that has become indispensable for detecting, identifying, and quantifying chemical compounds. In this context, there is a growing focus towards bioactive natural products due to their high chemiodiversity, which cannot be guaranteed by synthetic methods. This Special Issue will cover a wide range of subjects, including the applications of MS in the extraction and analysis of bioactive and organic compounds of plant origin, as well as in pharmaceutical research, including drug discovery, development, and quality control. It may also include case studies demonstrating the identification and quantification of nutraceuticals, pharmaceuticals, and other bioactive compounds using MS, along with techniques to improve the sensitivity and specificity of MS in complex biological matrices, as well as in the characterization of secondary metabolic profiles. Furthermore, the role of MS in pharmacokinetic and pharmacodynamics studies can also be explored, and advanced MS techniques for detecting drug metabolites and degradation products can be presented.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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