## **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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## Deadline for manuscript submissions

20 April 2026



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## Message from the Editor-in-Chief

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### **Editor-in-Chief**

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