

## Special Issue

# Application of Mass Spectrometry-Based Multi-Omics in Biomedical Research

### Message from the Guest Editors

Mass spectrometry (MS) has long been a cornerstone of molecular analysis, but its full potential is now being realized through integrated, multi-omics strategies that combine proteomics, metabolomics, lipidomics, and mass spectrometry imaging (MSI).

This Special Issue seeks research articles, reviews, and technical advances that leverage MS-based multi-omics in biomedical research. Submissions may include the following:

- Integrated omics workflows combining two or more MS-based modalities;

- Spatial multi-omics and MSI applications in disease biology or drug delivery;

- Novel sample preparation, acquisition strategies, or data analysis pipelines;

- Translational studies identifying biomarkers or therapeutic targets;

- Computational and statistical methods for multi-omics data integration.

By bringing together leaders across analytical chemistry, bioinformatics, and translational science, this Special Issue aims to highlight innovations that expand the capabilities and impact of MS-based multi-omics in modern biomedical research.

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### Guest Editors

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### Deadline for manuscript submissions

26 June 2026



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### Message from the Editor-in-Chief

*Life* (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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