

## Special Issue

# Mass Spectrometry in Molecular Biology

### Message from the Guest Editor

Modern applications of mass spectrometry techniques in molecular and structural biology rely on the ability to vaporize and ionize macromolecules, which was made possible with the advent of electrospray ionization coupled to liquid chromatography or matrix-assisted laser desorption/ionization coupled to high-resolution mass spectrometers. Quantitative studies of individual macromolecules and their function in cells grown in different media were made possible by isotope-coded affinity tags technology. With the ever-growing volume of biological molecules' mass spectra data, our ability to identify them in complex mixtures relies on the continuous development of efficient algorithms to search, rank, and interpret entries in online databases. This Special Issue on "Mass Spectrometry in Molecular Biology" invites original research and reviews on all aspects of development, verification, and maturation of sample preparation protocols, measurement techniques, and supporting computational and theoretical methods to interpret the structural and functional properties of biomolecules.

### Guest Editor

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### Deadline for manuscript submissions

closed (20 April 2025)



## International Journal of Molecular Sciences

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## About the Journal

### 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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