

Special Issue

Application of Spectroscopic Methods in Molecular Biology Research

Message from the Guest Editor

Spectroscopic methods provide powerful, noninvasive tools for investigating the structure, dynamics, and interactions of biomolecules. Techniques such as infrared (IR), Raman, ultraviolet–visible (UV–Vis), fluorescence, nuclear magnetic resonance (NMR), and mass spectrometry offer complementary insights into proteins, nucleic acids, lipids, and complex biological assemblies. These techniques enable the elucidation of structure–function relationships that are central to molecular biology. Recent methodological advances have improved sensitivity and spatial and temporal resolution and enhanced the ability to monitor biomolecular processes under near-physiological conditions. This Special Issue is dedicated to the application of spectroscopic methods in molecular biology research. We welcome contributions on studies that use spectroscopy to investigate biomolecular interactions, monitor conformational changes, or characterize biomaterials for therapeutic and diagnostic applications.

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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