

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

Prof. Dr. Łukasz Laskowski

Henryk Niewodniczanski Institute of Nuclear Physics, Polish Academy of Sciences, Krakow, Poland

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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology
"Jose Mataix", Biomedical Research Center, University of Granada,
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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