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# Application of Nuclear Magnetic Resonance (NMR) Spectroscopy in Bioorganic Chemistry

Guest Editor:

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Deadline for manuscript submissions: **20 November 2024** 



Message from the Guest Editor

Dear Colleagues,

Nuclear magnetic resonance (NMR) spectroscopy is one of the techniques of choice employed by bioorganic chemists. Indeed, it finds application in the study of the structure and conformation of bioorganic molecules and their molecular interactions. Notably, it can be used for the characterization of both large and small biomolecules, as well as for the structural resolution of large supramolecular complexes. Furthermore, its intrinsically quantitative nature can be exploited to determine the purity of the organic molecules present in a sample, as well as for the identification and quantification of metabolites present in complex mixtures, such as biofluids, cells, tissues and natural extracts. Finally, NMR spectroscopy makes it possible to elucidate the mechanisms of organic reactions, also monitoring them in real time, including those involving enzymatic catalysis.

Original research articles and review papers elucidating how NMR spectroscopy can provide new insights and/or original methodological approaches to the study of bioorganic chemistry are very welcome from outstanding experts of the topic.

Prof. Dr. Cristina Airoldi *Guest Editor* 



mdpi.com/si/170295





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