

Special Issue

Application of Nuclear Magnetic Resonance Method in Protein Research

Message from the Guest Editors

Nuclear magnetic resonance (NMR) is one of the three major methods used to study protein structure at an atomic resolution. Recently, there has been a revolution in structural biology involving cryogenic-electron microscopy. However, the molecular mechanisms and biological roles for most proteins could not be perfectly illustrated with these frozen static structures. In addition to its high-resolution structure, NMR enables the studies of protein dynamics under the more physiological conditions intimately related to the biological mechanism of proteins. This Special Issue aims to highlight recent advances in all aspects of NMR-based protein study methodology and applications. It shall broadly contain reviews and original scientific contributions, including solution and solid-state NMR pulse sequence development, data analysis, as well as domain-specific applications such as protein structure determinations, drug discovery, chemical biology, and protein biological function investigations.

Guest Editors

Prof. Dr. Chaowei Shi

Prof. Dr. Lichun He

Prof. Dr. Yan Li

Prof. Dr. Bing Liu

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Life
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
life@mdpi.com

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Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona
Institute of Science and Technology, 08028 Barcelona, Spain

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