

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.

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