

Special Issue

Conformational Studies of Proteins and Peptides

Message from the Guest Editors

Proteins and linear heteropolymers, the backbone of which is formed by successive peptide bonds between natural amino acids, provide a wealth of structural properties. With structure and function being closely related in proteins, the global conformation adopted by a peptide chain determines its function. The surrounding water molecules and their dynamics also play a pivotal role in the chain folding of globular proteins, in maintaining the disordered character of chains, and in inducing their aggregation processes, which are known as the main cause of several human diseases. Short size peptide chains are recognized as efficient bioactive, functional and imaging agents. Their versatility for elaborating therapeutic agents, used, for instance, as analogues of natural hormones, as well as innovating synthetic materials has been emphasized over the past two decades. In this Special Issue, our aim is to explore the capability of different physical techniques such as X-ray diffraction/scattering, NMR, optical spectroscopies, in combination with adequate theoretical methods, to elucidate the structural features of proteins and peptides.

Guest Editors

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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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