

## 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 for 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.

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### Guest Editors

Prof. Dr. Mahmoud Ghomi  
Dr. Santiago Sanchez-Cortés  
Dr. Belén Hernández

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### Deadline for manuscript submissions

closed (20 December 2024)



## International Journal of Molecular Sciences

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