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Peptide and Protein Conformational Features and Biological Activity

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Deadline for manuscript submissions:
closed (15 November 2022)

Message from the Guest Editors

As you know, proteins are the main target of all drugs on the market, and peptides, despite their known pharmacokinetic problems, are ligands of great interest in the pharmaceutical field as they are characterized by great flexibility and great affinity with respect to small molecules. It is known that the conformation assumed by target or ligand is a crucial point in determining the right folding and the right position in the binding site and therefore the biological activity. Many factors can strongly influence protein and peptide conformation, such as the pH of the environment, temperature, proximity to the membrane, and protein–ligand binding events. The analysis of how these factors can promote proteins' and peptides' conformational changes can be carried out using both computer-aided software and biophysical techniques, such as circular dichroism (CD), nuclear magnetic resonance (NMR), electron paramagnetic resonance (EPR), etc.

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Message from the Editor-in-Chief

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