



Probing Protein Conformational Plasticity

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Message from the Guest Editor

It has been becoming clear in the recent years that regulation of conformational plasticity of proteins plays a pivotal role for various biological functions on the molecular level.

Intrinsically disordered and partially folded proteins are prime examples for flexible biomacromolecules that sample a broad conformational space and exhibit polymer-like properties. Regulation of protein dynamics and conformational plasticity plays a key role for a range of biologically relevant phenomena such as, for instance, protein thermal stability, protein-ligand interactions, and enzymatic catalysis. Protein flexibility is crucially important for the subtle interplay of proteins with their hydration layer and affects macromolecular diffusion.

Recently, a wide range of state-of-the-art experimental techniques and computer simulation methods have emerged that are used to probe the relevance of protein conformational plasticity for protein function on multiple time and length scales.

In this Special Issue of *IJMS*, we want to offer a platform for high-quality publications on experimental and simulation studies that address that research field.





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Message from the Editor-in-Chief

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