

## Special Issue

# Probing Protein Conformational Plasticity

### 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.

### Guest Editor

Dr. Andreas Stadler

1. Forschungszentrum Jülich, IBI-8/JCNS-1, 52428 Jülich, Germany
2. Institut für Physikalische Chemie, RWTH Aachen University, 52074 Aachen, Germany

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## International Journal of Molecular Sciences

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
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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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### Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,  
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle  
Marche, Via Ranieri 65, 60100 Ancona, Italy

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