

Special Issue

Protein Folding, Misfolding, and Related Diseases

Message from the Guest Editor

In order to function properly, proteins fold into their native three-dimensional conformations. Protein folding is governed by physico-chemical properties of the amino acids constituting its polypeptide chain, and leads to the minimization of polypeptide chain free energy. Multiple chaperone systems are required to fold proteins correctly in a cellular environment. In addition, degradation pathways participate by destroying improperly folded proteins. However, the intricacy of this multisystem processes provides many opportunities for an error. As a result, many diseases are fundamentally rooted in the protein folding or misfolding problem that all cells need to resolve in order to maintain their function and integrity.

In this Special Issue, you are welcome to address the issues concerning the underlying molecular and cellular mechanisms of protein folding and alternative structural conversion into misfolded species, how these processes may lead to disease or are mitigated by protective cellular mechanisms. The prospective treatments of protein misfolding diseases will be also highlighted.

Guest Editor

Prof. Dr. Ludmilla Morozova-Roche

Department of Medical Biochemistry and Biophysics, Umea University, 90781 Umea, Sweden

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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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