

Special Issue

Intrinsically Disordered Proteins (IDPs): From Physical Chemistry to Pathogenic Mechanisms

Message from the Guest Editors

Intrinsically disordered proteins (IDPs) represent ~50% of the human proteome and are implicated in major human diseases, such as cancer, neurodegeneration, and viral infections, emerging as potential targets for therapeutic approaches. This Special Issue will highlight the link between the peculiar physicochemical properties of these polymers, their interactions, and their role under physiological and pathological conditions. Advanced biophysical methods for IDP structural investigation will also be discussed. Most of the papers derive from contributions to the International Summer School on “Intrinsically disordered proteins (IDPs)—From Physical Chemistry to Pathogenic Mechanisms” held in Como, Italy, in September 2019. Topics include, without being limited to: IDP identification, classification and characterization, liquid–liquid phase transitions, membrane-less organelles, conformational ensembles, molecular recognition, fuzzy complexes, protein networks, cancer, neurodegeneration, virus regulation, enzymatic IDPs, biophysical and mass spectrometry techniques, -omics approaches, disorder and aggregation prediction, computational modeling.

Guest Editors

Dr. Stefania Brocca

Prof. Dr. Rita Grandori

Dr. Sonia Longhi

Deadline for manuscript submissions

closed (30 September 2020)



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

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.

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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