



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

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Deadline for manuscript submissions:

closed (30 September 2020)

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.





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Message from the Editor-in-Chief

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