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Structure and Function of Proteins: From Bioinformatics Insights

Guest Editor:

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Message from the Guest Editor

Bioinformatics has become essential for elucidating the links between protein structure, dynamics, and function, as well as for understanding target-based drug discovery approaches. It is therefore clear that an integrated approach combining different computational and experimental techniques will provide more comprehensive and mechanistic insights into protein structure and function.

In this Special Issue, we will explore the application of bioinformatics in key areas such as prediction of 3D structures of unstructured proteins, prediction of gene expression, identification of transposable elements, and prediction of interactions between biologically important proteins (e.g., druggable proteins) and ligands.

In addition, reports are encouraged to propose new experimental or computational methods for the interpretation and understanding of biophysical-chemical data, structural studies of proteins and macromolecular assemblies, modification of protein structure and function via molecular biology and genetics techniques, conditions for functional analysis under physiology, and protein interactions with receptors, nucleic acids, or other specific ligands or substrates.



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