Special Issue

Regulation of Protein Kinase Activities and Associated Protein Structure Prediction Applied to Drug Discovery

Message from the Guest Editor

Dear Colleague, The current Special Issue will cover a broad range of following topics related to protein structure and prediction. This includes, but is not limited to, these areas:

- Regulation and functions of protein kinase and phosphatases in human/drosophila genome;
- Major role of protein phosphorylation in the cell signaling and its applications to targeted therapy;
- Protein structure prediction and modelling;
- Structural bioinformatics;
- Structural biology techniques (viz., X-ray crystallography, NMR and cryo-EM);
- Protein protein interactions and signaling;
- Protein-ligand interactions and drug design;
- Protein engineering and design;
- Molecular docking and drug discovery;
- Computational methods for protein structure analysis/design;
- Machine learning and deep learning in protein structure prediction and design;
- Protein structure databases and resources;
- Multi-omics data integration and gene signature detection.

Guest Editor

Dr. Saurav Mallik
Research Scientist, University of Arizona, Tucson, AZ 85721, USA

Deadline for manuscript submissions

closed (28 February 2025)

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Message from the Editor-in-Chief

Editor-in-Chief

Dr. Mauro Salvi

Department of Biomedical Sciences, University of Padova, Padova, Italy

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