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Lucknow hosts workshop on drug designing

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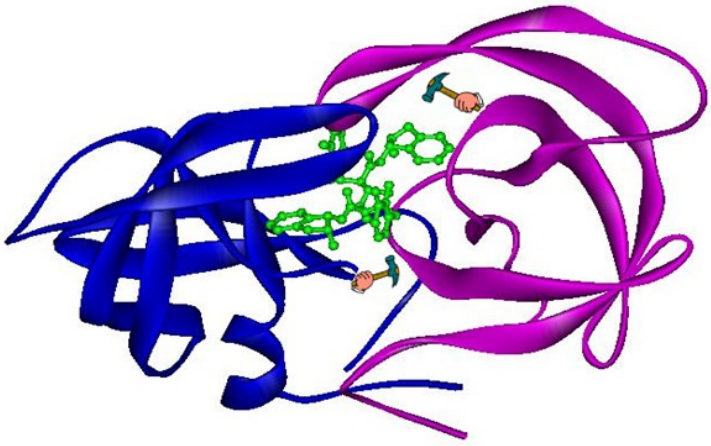

The workshop will familiarize the participants with topology coordinates identification, in-silico target molecule properties evaluation. It also has an objective to apprise the participants with the recent methods of molecular dynamics simulations which lead to the successful design of proficient, precise and non-toxic small-molecules through guided practical training.

Designing and developing a new drug molecule is increasingly becoming a time and cost intensive process, which has limited the rate of drug discovery and very few new molecules are reaching into the market. Computational methods have been in use for various forms of drug discovery like QSAR, Molecular Simulations, Molecular Docking, Virtual Screening and Structure-based drug designing methods for some time. Drug Designing is the inventive process of finding new medications based on understanding of the biological target.

The participants of the workshop will be accessing offline and online resources of macromolecule libraries, molecular docking, molecular simulations and novel drug discovery. They would also learn about prediction and analysis of various properties of compounds, bimolecular structure prediction, visualization, interaction analysis and Pharmacophore designing. The practical knowledge gained through this hands-on workshop will empower participants in the field of in-silico drug development methods and enhance their employment potential in academia and industrial research.

The workshop will consist of lectures, group discussions, case studies, exchange & sharing of experience on Bioinformatics and its application Biological Databases Functional Genomics and Proteomics Structural Bioinformatics and much more. It is expected to be attended by scientists, research fellows from national laboratories and universities.