



INDIAN BIOLOGICAL SCIENCES AND RESEARCH INSTITUTE™

भारतीय जैविक विज्ञान एवं अनुसंधान संस्थान

An ISO 9001:2008 Certified Institute

Knowledge Leads Innovation

In-Silico Drug Designing: Principles and Applications



Insilico Drug Designing

6 DAYS ONLINE TRAINING

WORKSHOP FEATURES :

- Live sessions for detailed demonstrations
- ✓ Q&A Sessions
- ✓ Certificate of Completion
- ✓ Post-training support for queries

E-CERTIFICATE

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Overview:

This course provides a comprehensive introduction to **in-silico drug designing**, equipping students with the necessary theoretical knowledge and practical skills to discover and develop new drug candidates using computational tools. The course emphasizes the integration of **bioinformatics** and **computational chemistry** in drug discovery pipelines, accelerating the development of new therapeutics in an efficient, cost-effective manner.

Learning Objectives:

- Understand the principles of in-silico drug discovery and development.
- Master the use of cutting-edge computational tools to identify and optimize drug candidates.
- Learn about the pharmacokinetic and pharmacodynamic properties of drugs.
- Gain hands-on experience in drug-receptor interaction studies and virtual screening workflows.

Course Offerings:

1. Conceptual Foundations:

- Introduction to drug discovery and the role of computational methods.
- Pharmacokinetics and pharmacodynamics in silico approaches.
- Ligand-based and structure-based drug design principles.

2. Hands-on Experience with Tools and Technologies:

- **Molecular Docking:** Training on tools like **MVD (Molecular Virtual Doc)** and **SPDV, Swiss-PDB** to study ligand-receptor interactions.
- **Structural Alignment and Visualization** using Swissport.
- **Bioinformatics Databases:** Access and utilize resources like **PubChem, ZINC, and PDB** for compound and protein data.

Registration Link: <https://ibri.org.in/ProjectTrainingRegistrationForm.pdf>

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