

**National Workshop  
on  
Bioinformatics Applications in Modeling & Drug Design  
15 - 17<sup>th</sup> February 2018**

**APPLICATION TO REGISTER**

Title ..... First Name .....

Last Name .....

Educational Status.....

Designation/Student.....

University/Institute.....

Address .....

.....

City ..... State .....

Pin Code ..... Tel/Mobile.....

Email .....

(Email will be used for all communications )

**Accommodation required** (tick): yes / no

**Accomd. Category:** A/B/C/D (visit web for details)

**DD/NEFT Details:**

No (DD/UTR no.) .....

Date .....

Issuing Bank .....

**Signature of Applicant**

(A4 size application form may be downloaded from the website)

**Website: [www.bisr.res.in](http://www.bisr.res.in)**

**Last Date of Application: 7 Feb 2018**

**REGISTRATION INFORMATION**

**Timings:** 09:30 - 18:00 hrs

**Venue**

Mini Conference Hall,  
Birla Auditorium,  
Birla Institute of Scientific Research,  
Statue Circle, Jaipur 302001

**Fee:** Rs 2000/-

The fee includes course  
documentation as well as mid-  
session refreshments and lunch.

**On-spot registration** is available  
only in condition of availability of  
seat with late fees and prior  
information.

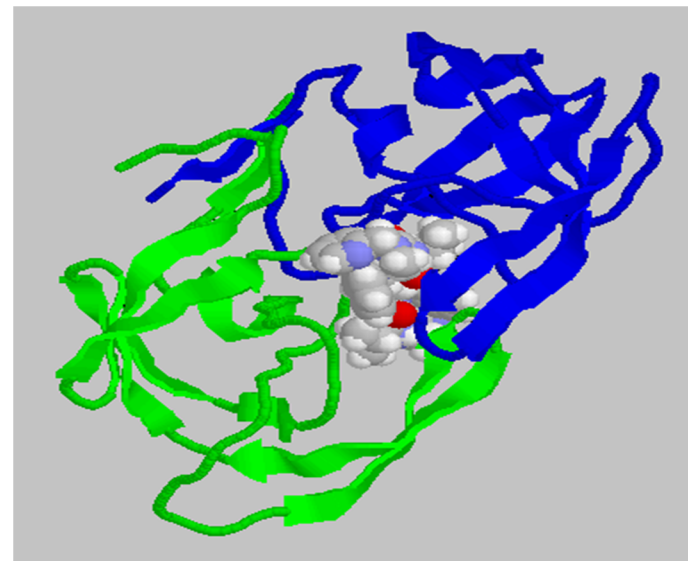
**Accommodation:**

Accommodation will be provided on  
written request to the convener and  
the participant will bear the cost of  
accommodation.

**Disclaimer**

In the event of circumstances  
beyond its control, the Management  
reserves the right to alter the  
program, the speakers, the date or  
the venue.

**BISR, Jaipur and BTIS Sub-DIC, DBT, GOI  
BIOINFORMATICS  
Training Programs'**



**Bioinformatics Applications  
in  
Modeling & Drug Design**

**15 - 17<sup>th</sup> February 2018**



**Birla Institute of Scientific Research  
Jaipur**

*"Gain the competitive edge with practical experience and hands-on technical training."*

## PROGRAM DESCRIPTION

The computational modeling and in-silico drug design techniques have created immense opportunities for researchers in designing novel therapeutic agents. State-of-the-art bioinformatics approach helps in the deep understanding of molecular properties and the specific behavior of receptor-ligand interaction at the molecular level. The use of in-silico approaches is essential component of drug discovery in major pharma industries and its implementation has also drastically reduced down the time and cost of drug development.

This workshop focuses on the current techniques of Molecular Modeling and Drug designing that is being used by researchers for predicting the 3D structure of Proteins and in designing of drug molecules through guided practical training. For lab exercise, various online resources and commercial software will be used in training such as Accelrys Discovery Studio, Modeller, Arguslab, DeepView, Marvin Draw and Molinspiration.

The workshop is self-contained and does not assume any special knowledge of computer programming or any advanced Bioinformatics skills.

## TOPICS COVERED

- Introduction to Molecular Modeling & Drug Design
- Proteins: Structure & Properties
- Databases: Sequence, Structure, Chemicals & Drugs
- Sketching and Building Biomolecules: 2D & 3D models
- Protein Structure Prediction Methods
- Homology Modeling of Proteins
- Drug Target Identification
- ADME/T Analysis
- Virtual Screening and Lead Optimization
- Molecular Docking Technique
- Molecular Simulation Techniques

## TEACHING FACULTY

Besides BISR faculty, eminent guest speakers from renowned Bioinformatics Centers of India and abroad will deliver lectures and conduct demonstration. Visit website for details.

## WHO SHOULD ATTEND?

The participants of the course may be students, research scholars, and faculty and industry personnel with background in Life Sciences and/or Information Technology. The workshop is self-contained and does not assume any special knowledge of the subject.

## HOW TO APPLY

Interested candidates may apply by sending filled application form along with the NEFT details or DD of Rs. 2000/- in favor of **"The Birla Institute of Scientific Research"** payable at **"Jaipur"** latest by **February 7** to the Convener. The confirmation of participation will be informed through emails only. Mark heading of your envelop with *"Bioinformatics workshop" 15-17 February 2018*. For NEFT details visit website.

**Note:** The number of participants is limited to **40** only. **Selection criteria would be first come first serve.** For any query send an email at **bisrjaipur@gmail.com** or contact the convener.

**Dr. P S Solanki**

Convener

Bioinformatics Workshop

Birla Institute of Scientific Research

Statue circle, Jaipur – 302001, Rajasthan (INDIA)

**Tel:** 0141-2385094 ext 324 (0), **Fax:** 0141-2385121

***A certificate of attendance for professional development will be given to each participant who completes the course.***

***"For more details visit [www.bisr.res.in](http://www.bisr.res.in)"***