

# Four-Day Workshop on RATIONAL DRUG DESIGN

28 – 31 October 2009

## APPLICATION TO REGISTER

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

Family Name .....

Educational Background .....

Position .....

Organization .....

Address .....

City ..... Pin Code .....

Tel ..... Fax .....

Email .....

Reason to join this training:

Accommodation Required : yes or no

DD Details

No ..... Date .....

Bank .....

Signature .....

Application form may be downloaded from the website.

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

Last Date of Application:  
23 October 2009

## REGISTRATION INFORMATION

Timings : 09:30 - 18:00 hrs

Registration 09:00 hrs Day 1

### Venue

2<sup>nd</sup> Floor, R & D Laboratory,  
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.

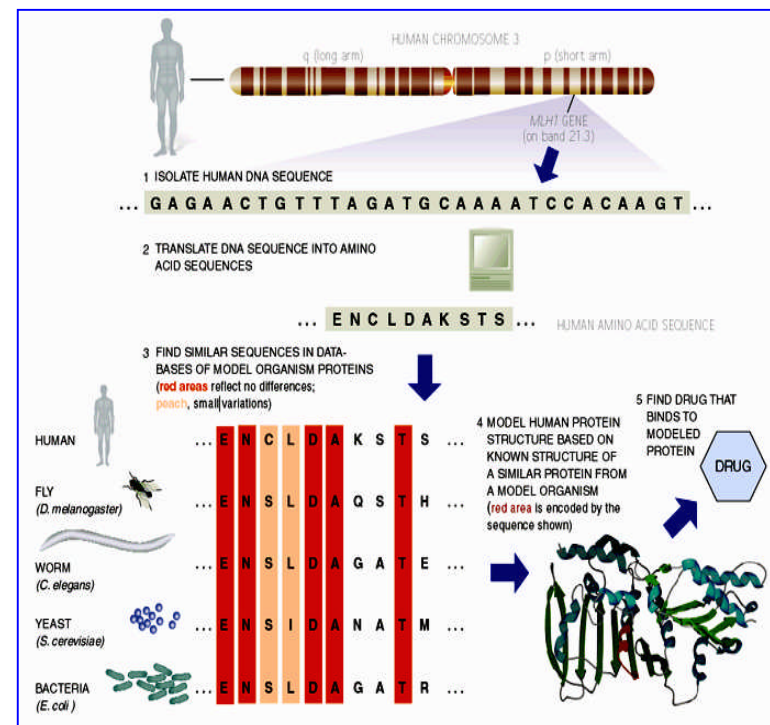
### How to Pay Fee

Demand Draft of Rs 2000/- in favor of "Birla Institute of Scientific Research", payable at Jaipur.

### 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.

# Birla Institute of Scientific Research, Jaipur BIOINFORMATICS Training Programs'



28 -31 October 2009

Birla Institute of Scientific Research  
Jaipur

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

## PROGRAM DESCRIPTION

Increase in our understanding of macromolecular interactions at the atomic level makes it possible to design ligands and inhibitors with desired specificities. In-Silico approach implements new computational methods to simulate drug-receptor interactions. Many drugs are small ligand molecules that interact with macromolecular surfaces. Affinity and specificity of ligand binding are determined by molecular surface patterns, their chemical similarity and structural complementarity, and governed by non-covalent bonds that are electrostatic in nature. The underlying theme of this workshop is to expose participants with the current approaches of rational drug designing which lead to the successful design of efficient, specific, and non-toxic small-molecule therapeutics through guided practical training.

## WHO SHOULD ATTEND?

The participants of the course may be any interested student (UG/PG), research scholar, faculty member and industry personnel with background in Life Sciences and/or Information Technology.

## TEACHING FACULTY

Besides BISR faculty, eminent guest speakers from renowned Bioinformatics Centre's of India will deliver lectures and conduct demonstration on various aspects on rational drug design.

## HOW TO APPLY

Interested candidates may apply by sending filled application form along with the DD of Rs 2000/- latest by October 23, 2009 to the Convener. The confirmation of registration will be informed through emails only. List of selected participants will be displayed on the website.

## TOPICS COVERED

- Introduction to Drug discovery life cycle and Rational Drug design
- Chemical Databases and Data mining approaches in Cheminformatics
- Structure Visualization, Sketching using Discovery Studio
- Drug target Identification and Lead Optimization
- Pharmacophore and Molecular Docking
- Study of Pharmacokinetics and Toxicology in Rational drug design
- ADME/T Analysis
- Application of Structure Based Drug Design: Case studies
- Ligand Based Drug Designing

## FURTHER QUERY

Email: [workshop.bisr@gmail.com](mailto:workshop.bisr@gmail.com) , contact at 9928365838

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

P S Solanki

Convener

Birla Institute of Scientific Research

Statue circle, Jaipur – 302001, Rajasthan (INDIA)

Email: [workshop.bisr@gmail.com](mailto:workshop.bisr@gmail.com)

Tel: 0141-2385094 (0) Fax: 0141-2385121

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

A Certificate of Attendance for Professional Development will be given to each participant who completes the Course.