

WORKSHOP-SYMPOSIUM

Mathematics in Drug Discovery

25-29 September 2010

Venue: YASHADA, Rajbhavan Complex, Baner Road, Pune 411007

Mathematical and computational techniques are used extensively in drug discovery research. They are mostly hidden within software packages and the end-user is barely aware of it. This residential workshop and symposium in the DST-IISc Year of Mathematical Biology aims to educate participants about the fundamental mathematical principles and techniques used at various stages of the drug discovery process, and to give a glimpse of ongoing research activities in these areas. It is targeted at final year Masters degree students, doctoral students, postdoctoral fellows, and young researchers from both

physical and life sciences backgrounds who are interested in the field of drug discovery. This activity is funded by the Department of Science and Technology and jointly organized by the DST Centre for Mathematical Biology at IISc, the IISc Mathematics Initiative, Piramal Life Sciences Ltd and NCL-Pune.

Request for participation:
Applications are invited from interested research students and researchers to participate in the workshop. Limited financial support is available. Local participants are also required to formally apply.

Application forms can be filled on-line from our website
<http://math.iisc.ernet.in/~imi/math-biorequestforparticipation.php> or downloaded and submitted by either e-mail or post to:

The Secretariat
IISc Mathematics Initiative
Department of Mathematics
Indian Institute of Science
Bangalore 560 012
Ph: +91-80-22933217, 22933218
Fax: +91-80-23605390
E-mail: imi@math.iisc.ernet.in

LAST DATE: 15 Aug 2010

TOPICS INCLUDE

Mathematics in small molecule chemistry

Modeling protein 3D structure

Protein flexibility

Docking

PK-PD modeling

...and more!

There will be a few symposium-style talks by researchers on original theoretical work done by them and case studies of applications covered in the Workshop.

ORGANISERS

Chandrika B-Rao
(Piramal Life Sciences Ltd, Mumbai)

Chetan Gadgil
(National Chemical Laboratory, Pune)

KEY SPEAKERS / INSTRUCTORS

Prof B Jayaraman, IIT, Delhi

Prof K Suguna, IISc

Prof PV Bharatam, NIPER, Mohali

Dr Sudhir Kulkarni, vLife

Dr RV Hosur, TIFR, Mumbai

Dr Madhavi Sastry, Schrodinger, DESIS

Prof Evans Coutinho, BCP

Dr Achintya Das, Strand LifeSciences

Prof Saraswati Vishweshwara, IISc

Prof S Gadre, University of Pune

Prof D Velmurugan, University of Madras

Prof PV Balaji, IIT, Bombay

Prof Krishna Iyer, BCP

Dr Rajiv Sharma, PLSL

Dr Prasanna Dattatreya, Dr Reddy's Lab

Prof Rajani R Joshi, IIT, Bombay

Dr CG Suresh, NCL

Dr V Subramanian, CLRI, Chennai

For enquiries regarding local arrangements, contact: mddws2010@gmail.com

<http://math.iisc.ernet.in/~mathbio>