

# National Conference cum Workshop on Molecular Modeling and Drug Design (MMDD'2015)

(20<sup>th</sup>-21<sup>st</sup> March, 2015)

Organized by

Bioinformatics Infrastructure Facility, Centre for Bioinformatics  
Maharshi Dayanand University, Rohtak- 124001, Haryana, India.

('A' Grade University Accredited by NAAC)



## Theme of MMDD' 2015

Drug design and development is an iterative process which is complex, time consuming and expensive venture. Therefore the pharmaceutical industries have shifted their focus to structure based drug designing from hit and trial processes. Hence the significance of computer aided drug designing is increasing day by day. The objective of this conference cum workshop is to demonstrate the basics of molecular modeling and docking simulation techniques and their applications in drug design and discovery. Bioinformatics has created an immense opportunity for researchers to design novel leads and therapeutic molecules. Computational techniques have now occupied the central stage in drug discovery process and have drastically reduced down the time and cost of drug development. *In-silico* studies have enhanced our understanding of molecular properties and the specific behavior of drug-receptor interaction at the molecular level. This conference cum workshop focuses on the current techniques of molecular modeling and drug designing that are being used by researchers for predicting the 3D structure of proteins and in designing of drug molecules through guided practical training.

## Maharshi Dayanand University

Maharshi Dayanand University, Rohtak, named after a great social reformer was established through an Act of Legislative Assembly of Haryana in the year 1976 with special objective - "To establish and incorporate a teaching- cum - affiliating University at Rohtak for the encouragement of interdisciplinary higher education and research with special emphasis on studies in Life Sciences and Environment and Ecological Sciences". It is located 70 kms away from Delhi on NH-10 and spread in 700 acres of land.

## Centre for Bioinformatics

The centre is one of the fastest developing wings of the University and plays a lead role in the region as far as Life Science is concerned. It has been recently given the status of separate department, before which it was the part of Centre for Biotechnology. The centre offers Ph.D. and Masters programme in Bioinformatics apart from other training programs (studentship and traineeship) in bioinformatics. The centre boasts about its state-of-the-art infrastructure and laboratory facilities. Bridging the Biologist-Computational Interface gap will ever remain focus of the centre.

## Workshop Highlights

	Molecular Modeling
	Model Refinement & Validation
	Active site Identification
	Molecular Docking Simulations
	Protein-Ligand Interaction
	Protein-Protein Interaction
	ADMET Properties Prediction

## Invited Speakers

- Dr. T. Madhan Mohan, DBT, New Delhi
- Dr. Dinesh Gupta, ICGB, New Delhi
- Dr. Mukesh Jain, NIPGR, New Delhi
- Dr. Naidu Subbarao, JNU, New Delhi

## Organizing Committee

**Patron in Chief:** Er. H.S. Chahal, Vice Chancellor, M D University

**Patron:** Prof. P.K. Jaiwal, Dean (Life Sciences) M D University

**Convenor:** Prof. Rajesh Dhankar, Director, CBNF, M D University

**Organizing Secretary:** Dr. Ajit Kumar, Coordinator, DBT-BIF, CBNF, M D University

## Members

- Prof. B. Narsimhan, Dean (Pharmaceutical Sciences), M D University
- Dr. Amita S. Dang, Centre for Medical Biotechnology, M D University
- Dr. S.S. Gill, Centre for Biotechnology, M D University
- Dr. N.S. Chauhan, Dept. of Biochemistry, M D University
- Dr. Pooja Suneja, Dept. of Microbiology, M D University
- Dr. Rachna Bhateria, Dept. of Env. Sciences, M D University

## Who should Attend

The workshop is meant for Research Scholars and young Faculty members of Life science, Pharmaceutical Sciences and related disciplines who are interested in incorporating bioinformatics tools into their research. Total number of participants for workshop is limited to 20 and selection will be made by screening committee. However, there is no limitation to the participation in conference. Interested applicants should send the completed registration form mentioning the benefits of attending the workshop to the Organizing Secretary (by post/e-mail) on or before 10<sup>th</sup> March 2015.

## Call for Posters

Authors are requested to submit one page thematic abstract (maximum 300 words) to be considered for poster session. Abstracts should be in MS Word format (typed in Times New Roman, font size 12, line space 1.5) with the following information in this order: a) Title of the abstract, b) author(s) and their affiliation, c) corresponding email address, e) abstract text (~300 words). One page abstract should contain sufficient information for scientific advisory panel to be able to make a valid decision as to the intrinsic merit of the research work. All submitted abstracts will be reviewed on the basis of relevance, originality and significance. Authors should send their abstracts by email to [coordinator.bif@mdurohtak.ac.in](mailto:coordinator.bif@mdurohtak.ac.in) along with the registration form. Closing date for abstract submission is 15<sup>th</sup> March, 2015. Abstracts of all papers to be presented will be published in symposium souvenir.

First, second and third prize for best poster presentation for young researchers <35 years. Please note that the dimension of the poster should fit to 3 ft (by width) x 4 ft (by height) poster board.

## Registration

The participants are requested to send the duly filled in registration form along with registration fee on or before March 20<sup>th</sup> 2015. There will be no on-spot registration. However, outstation candidates may send their registration form to the Organizing Secretary by post or e-mail and final registration may be made on-spot.

## Registration Fee Details

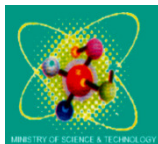
	Conference	Workshop	Accommodation (Per Day)
Student	200 INR	500 INR	200 INR
Faculty	300 INR	1000 INR	200 INR

## Address for Communication

**Dr. Ajit Kumar**  
Coordinator, BIF,  
Organizing Secretary- MMDD'2015  
Centre for Bioinformatics

Maharshi Dayanand University, Rohtak-124001, Haryana, India.  
Phone: +91-9802299176, E-mail: [coordinator.bif@mdurohtak.ac.in](mailto:coordinator.bif@mdurohtak.ac.in)

**Sponsors: DBT, Ministry of Science and Technology, New Delhi**



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**on**  
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**(20<sup>th</sup> -21<sup>st</sup> March, 2015)**



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**REGISTRATION FORM**

Select one:

Conference -

Workshop -

Title : Dr/Mr/Mrs/Ms

Name : \_\_\_\_\_

Position : \_\_\_\_\_

Organization: \_\_\_\_\_

Address : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_

PIN : \_\_\_\_\_

Tel/Mob. No. : \_\_\_\_\_

E-mail : \_\_\_\_\_

Briefly describe your research project and how attending this workshop  
would assist in your project: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Title of poster (if applicable): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Accommodation required: Yes / No

Signature of the candidate: \_\_\_\_\_

**Applications may be sent by post to:**

The Coordinator

Bioinformatics Infrastructure Facility

Centre for Bioinformatics

Maharshi Dayanand University, Rohtak – 124 001.

Mob:+91-9802299176

E-mail: [coordinator.bif@mdurohtak.ac.in](mailto:coordinator.bif@mdurohtak.ac.in)

NB: Accommodation can be arranged in university faculty house on payment basis.

**Photocopy of application form can be used**