



Workshop on

Cheminformatics and Machine Learning in Drug Discovery

March 18-19, 2024

Organized by:

Department of Pharmacy, BITS Pilani, Pilani campus

About the Department

The Department of Pharmacy at BITS Pilani is a renowned institution in the field of pharmacy education and research. Founded in 1950 by the late Prof. M.L. Schroff, a pioneer in pharmacy education in India, the department has since established itself as one of the leading pharmacy schools in the country. In 2023, the department secured the 3rd rank in the prestigious NIRF (National Institutional Ranking Framework) in the Pharmacy category. Moreover, our department has been placed within the impressive 100-150 band in the QS world ranking for Pharmacy and Pharmacology. Its broad-based education system and strong university-industry linkages have been instrumental in its success. The department completed 70 years of its existence in 2021 as a premier institution in the field of pharmacy education and research in India and abroad, a testament to its continued excellence. The alumni of the department are well-placed in India as well as abroad, in various pharmaceutical companies and government organizations, including drug control, research laboratories, and several premier academic institutions. Three faculty members of the department recently started start-ups, demonstrating the department's commitment to fostering innovation and entrepreneurship among its faculty members and students.

Objectives of Workshop

The role of big data analytics is emerging in all research areas, including drug design and discovery. This two-day workshop intends to expose participants to the cheminformatics and machine learning (ML) approaches used in drug design and discovery. The workshop intends to cover basic theoretical and practical aspects of various techniques used in cheminformatics and ML. Experts in the field will deliver the lectures and hands-on tutorials. The workshop also intends to expose participants to various open-source and commercial tools and databases that can be employed for cheminformatics and machine learning applications. The participants will also get the opportunity to network with each other and well-known researchers in the field. The participants will be provided with a limited period license for Cresset and Schrodinger commercial software for hands-on training.

- Basic concepts in cheminformatics and ML.
- Performance evaluation and validation of models. Best practices followed for
- Real-world applications of cheminformatics and ML in Drug Discovery
- Hands-on training with cheminformatics and ML software from Schrodinger (DeepAutoQSAR, Active Learning Glide) and Cresset group (FLARETM).

Who is eligible?

Due to the advanced nature of the topic, only Master's and PhD students, postdoctoral researchers, and early career professionals involved in teaching or research in chemical, pharmaceutical, and related sciences areas are eligible.

Registration fees & details

Please fill Google form via link: http://tinyurl.com/4nnfa5sa

Deadline 1st March 2024

₹500 (BITS participants); ₹950 (External participants). Includes 2 lunches, 1 dinner, refreshments, kit.

Accommodation

Participants are requested to arrange accommodation on their own. Limited accommodation is available at the on-campus BITS guest house on a first-come-first-serve basis. In addition, there are several hotels at the walking distance to the institute. See Google Form for more details.

Bank details

Beneficiary Name	Birla Institute of Technology & Science, Pilani
IFSC CODE No.	UTIB0001188
Account	CURRENT ACCOUNT
Bank Account No.	918010089946355
Bank	AXIS BANK LTD
Branch	PILANI
City	PILANI
MICR No.	333211177



SPEAKERS



Prof. Narasimhan Director-IQAC, Former Head and Dean at Maharshi Dayanand University, Rohtak



Prof. Manoj Kumar Senior Principal Scientist and Head of the Virology Unit at Bioinformatics Centre, CSIR-Institute of Microbial Technology (IMTECH) Chandigarh



Prof. Kamlesh Tiwari Associate Professor Department of Computer Science & Information Systems, BITS Pilani, Pilani Campus



Dr. Boyli Ghosh Application Scientist at Cresset Biomolecular Discovery Ltd., Bengaluru, Karnataka



Dr. Lahari Murali Support Scientist at Cresset Biomolecular Discovery Ltd, Bengaluru, Karnataka



Mr. Vinod Devaraji Senior Scientist I at Schrödinger Bengaluru, Karnataka



Dr. Abhijit Kayal Senior Scientist II at Schrodinger Bengaluru, Karnataka

LEADERSHIP

Prof. V. Ramgopal Rao, Vice Chancellor, BITS Pilani Prof. Sudhirkumar Barai, Director, BITS Pilani, Pilani campus

HEAD OF THE DEPARTMENT

Prof. Anil Gaikwad, Department of Pharmacy, BITS Pilani, Pilani campus

ORGANIZING COMMITTEE:

Prof. Sandeep Sundriyal; Prof. Hemant R. Jadhav; Prof. S. Murugesan; Prof. Atish T. Paul

For any query, you may contact to:

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