



## Department of Pharmaceutical Chemistry & Pharmacology

In collaboration with

**Shri. B.V. Patel Education Trust, Ahmedabad, Gujarat**

Organizes

### TWO DAYS NATIONAL WORKSHOP

ON

## “BIOCHEMICAL AND COMPUTATIONAL APPROACHES IN DRUG DISCOVERY”



20 & 21 February, 2026



10:00 am - 4:00 pm (on both days)

#### WHO CAN PARTICIPATE ?

- Faculty, Scientists and Research Scholars (UG/PG/PhD)
- Startups and Industry Professionals
- Students of Pharmaceutical and Allied Sciences

#### Co-ordinators

1. Dr. Suraj N. Mali  
Contact: 9657330138

Email: [suraj.mali@dypatil.edu](mailto:suraj.mali@dypatil.edu)

2. Mrs. Piyusha Patil  
Contact: 94238 42546

Email: [piyusha.patil@dypatil.edu](mailto:piyusha.patil@dypatil.edu)

#### REGISTRATION DETAILS

Registration Fees -

Rs. 800/- (For Students)

Rs. 1000/- (For academicians and  
Industry Professionals)

Last Date of Registration: 10th Feb. 2026

Website: [www.dypatil.edu/schoolofpharmacy](http://www.dypatil.edu/schoolofpharmacy)

Bank Details for Payment:

D Y Patil University School of Pharmacy

A/C No. : 017010100014328

IFSC code: MCBLO960017

Account Name:

D Y Patil University School of Pharmacy

Only 20 Seats



Scan me for registration

Link:

<https://forms.gle/RSRUvzx9CJvyq7cbA>



School of Pharmacy, D.Y. Patil University, Navi Mumbai

#### D. Y. PATIL SCHOOL OF PHARMACY, NAVI MUMBAI

Established in 2019, DY Patil University School of Pharmacy is a premier institution dedicated to pharmaceutical education and research. Located in Navi Mumbai, the school is part of the esteemed DY Patil University, which is known for its commitment to excellence in higher education.

The School of Pharmacy offers a range of undergraduate and postgraduate programs designed to equip students with the necessary skills and knowledge for a successful career in the pharmaceutical industry. With state-of-the-art facilities, a focus on practical learning, and a robust curriculum, the institution aims to foster innovation and professionalism among its students.

In addition to academic excellence, DY Patil University School of Pharmacy emphasizes research and collaboration with industry partners, ensuring that graduates are well-prepared to meet the challenges of the ever-evolving healthcare landscape.

D.Y. Patil School of Pharmacy, Nerul, offers a dynamic R&D platform supporting industry-sponsored projects and analytical testing using advanced instruments. The School also undertakes product development of solid orals, liquids, and topical formulations, strengthening industry-academia collaboration in pharmaceutical innovation.

Website: [www.dypatil.edu/schoolofpharmacy](http://www.dypatil.edu/schoolofpharmacy)

#### SHRI B.V. PATEL EDUCATION TRUST

Shri B.V. Patel Education Trust is established in the fond memory of the First Drug Controller of Gujarat, Shri Bhupendrabhai V. Patel in the year 1974. Vision and Mission of the Trust is educational activities in the field of pharmacy and allied sciences to support pharma industry with skilled scientists / technocrats / management professionals. To fulfil this goal the Trust carries out various programmes like International Symposiums, Hands on Training Workshops, Industry-Oriented Dissertation Programs etc. The Trust also conducts Shri B.V. Patel Essay Competition annually where students / academicians / industry professionals from various field can participate. In addition to this the Trust also organises Shri B.V. Patel Memorial Lecture every year in 'Indian Pharmaceutical Congress' where the winners of Essay Competition also receive medals and cash prize. The Trust is also planning to start Certificate Courses for pharma and allied science graduates to prepare them for industry oriented skilled human resource. The Trust is also working to come up with innovative programmes to support students and promote educational activities in Gujarat.

For details visit - [www.bvpedutrust.com](http://www.bvpedutrust.com) or call us- 9106848562.

### About the Workshop

This two-day hands-on workshop is designed to equip participants with both practical laboratory skills and foundational knowledge in key areas of drug discovery. The program integrates biochemical assay techniques using 96-well plate readers with computational methods such as QSAR (Quantitative Structure-Activity Relationship) modeling, and applications of Artificial Intelligence in Early-Stage Drug Discovery strategies. Participants will gain experience in designing and analyzing biochemical assays, interpreting experimental data, and applying in-silico tools to support early-stage drug development. Through guided exercises, software demonstrations, and real-world case studies, attendees will learn to build predictive models, analyze use of AI in early stage Drug Designs, using freely available computational tools and public databases. This workshop is ideal for students, researchers, and professionals in pharmaceutical sciences, bioinformatics, biotechnology, and related fields who seek to enhance their practical and computational skills in drug discovery. By the end of the training, participants will be able to integrate experimental and computational approaches to accelerate lead identification and optimization.



### Workshop objectives

- Train participants in QSAR modeling, molecular docking, and in-silico ADMET analysis.
- Develop skills in biochemical assay design and data interpretation using 96-well plate readers.
- Integrate computational and experimental tools for early-stage lead identification and optimization.

### Learning outcomes

- Design and perform biochemical assays for compound screening
- Develop QSAR models and perform molecular docking studies
- Conduct ADMET and target prediction analysis
- Apply computational tools to support pharmacological research
- Integrate data from both in-silico and in-vitro workflows

Day 1: QSAR Modelling & AI tools for Drug Discovery	
Time	Session
10:00 AM – 10:15 AM	Welcome & Introduction to the Workshop
10:15 AM – 11:15 AM	Introduction to QSAR: Concepts, Descriptors & Dataset Preparation
11:15 AM – 11:30 AM	Tea Break
11:30 AM – 12:45 PM	Hands-on Session: QSAR Model Building & Validation (DTC QSAR)
12:45 PM – 1:00 PM	Case Study Discussion: Interpreting QSAR Results
1:00 PM – 2:00 PM	Lunch Break
2:00 PM – 3:00 PM	Introduction to Applications of Artificial Intelligence in Early-Stage Drug Discovery: Practical Workflows and Case Studies
3:00 PM – 4:00 PM	Hands-on session for AI tools for Drug Discovery+ General Discussion & Q&A Session
Day 2: In-Vitro Assay and Biochemical Estimation Using Plate Reader	
Time	Session
10:00 AM – 10:15 AM	Overview of in-vitro screening principles and protocols
10:15 AM - 11:00 AM	Demonstration of biochemical assay setup for pharmacological screening
11:00 AM – 11:15 AM	Tea Break
11:15 AM – 12:45 PM	Hands-on training: assay execution and data acquisition using 96-well plate reader
12:45 PM - 1:00 PM	Data interpretation, result validation, and graphical analysis
1:00 PM – 2:00 PM	Lunch Break
2:00 PM – 3:00 PM	Biochemical estimation of enzyme activity or biomarker levels
3:00 PM – 4:00 PM	Real-time data analysis and troubleshooting

### Conveners

Dr. Rakesh R. Somani  
Principal,  
DYPUSOP, D. Y. Patil University,  
Navi Mumbai

Dr. Neeta Shrivastava  
Deputy Director,  
Shri. B. V. Patel Education Trust,  
Ahmedabad.

### Expert Faculties

Dr. Prashant Patole,  
School of Pharmacy, D.Y. Patil  
University, Navi Mumbai

Dr. Somdatta Chaudhari  
Modern College of Pharmacy,  
Pune

Dr. RajaSekhar Reddy Alavala  
SVKM’s Narsee Monjee Institute of Management Studies,  
Deemed to be University, Mumbai, Maharashtra - 400056, India