

PRESENTS

**A 5-DAY ONLINE FACULTY DEVELOPMENT PROGRAM ON  
DRUG DISPOSITION: AN IMPORTANT FACTOR IN DRUG ENGINEERING**

**01<sup>ST</sup> TO 05<sup>TH</sup> JUNE 2021**

Under The Aegis Of

All India Council for Technical Education (AICTE)

Sponsored

AICTE Training And Learning Academy (ATAL)

& Organised by

DEPARTMENT OF PHARMACEUTICAL ANALYSIS-

IQAC, Bombay College of Pharmacy (Autonomous-Affiliated to University of Mumbai)

Link for Registration

<https://www.aicte-india.org/atal>



### Theme of Faculty Development Program

Disposition of drugs in the body is a complex series of events that occur after the absorption of drugs and includes the processes of distribution and elimination. These events involve many transporters and drug metabolizing enzymes. Transporters mediate the movement of drugs or metabolites to and between the tissues, while drug metabolizing enzymes mediate the elimination of the drugs. The FDP focuses on the various strategies involved in transporter and drug metabolism studies to understand the overall pharmacokinetics / toxicokinetics and pharmacodynamics of the NCEs/drugs. The key elements of disposition data generation include *in vitro* and *in vivo* experimental methods and *in silico* methods, including the 'Qualification' and 'Quantification' of metabolites by analytical techniques; thus, facilitating drug discovery and development.

### Objectives of FDP

- Enhance research acumen in the drug metabolism and pharmacokinetic studies.
- Provide the knowledge base for optimizing dosage regimens.
- Understand use of various analytical techniques in drug metabolism and pharmacokinetic studies.
- Facilitate professional networking
- Broaden the scope for research funding

### Target Audience

- Faculty members from all disciplines of Pharmaceutical Sciences including, Pharmaceutics, Pharmaceutical Chemistry, Pharmacology & Toxicology, Pharmaceutical Analysis, Pharmacognosy & Phytochemistry/Biomedical & Medical Sciences
- Faculty members from Life Sciences/Biotechnology/Engineering working in the field of drug discovery and development/drug metabolism/drug interaction studies.

### Course Outcomes

The Faculty Development Program will provide the faculty information to appreciate the significance of drug metabolism and pharmacokinetic studies in drug discovery and development process. Introduction to the various *in vitro/ in vivo* models and related analytical techniques will allow in depth understanding of this area of research.

Participants will be awarded certificates on successful completion of the program as per ATAL norms..

## About the Institute

Bombay College of Pharmacy (BCP) is a pioneer institution in Pharmaceutical education in India. BCP was founded in 1957 by the Indian Pharmaceutical Association- Maharashtra State Branch (IPA-MSB).

BCP offers Bachelors, Masters and Doctoral programs of study in Pharmaceutical Sciences. BCP is recognized by UGC, PCI, AICTE and DTE with NBA accredited B. Pharm Program and is recognized by Department of Scientific and Industrial Research (DSIR) as Scientific and Industrial organisation (SIRO).

Faculty at BCP have been recipients of over Rs. 10 crores as research grants from AICTE, DST, UGC, CSIR, ICMR, DST-SERB and over Rs 1 crore in research grants from the corporate sector in the last five years. Recently, BCP has been conferred with Special Jury Mention Award for Enabling Research Environment at 6<sup>th</sup> FICCI Higher Education Excellence Awards 2019.

Bombay College of Pharmacy is ranked among the top 25 institutes in Pharmacy across India by NIRF-MHRD.

## About the Department

The Department of Pharmaceutical Analysis is equipped with state-of-art instruments, equipment and infrastructure. In addition to imparting curricular knowledge, the department undertakes various academic and industry collaborative research projects. The faculty ensures that the students are equipped with knowledge and skills required by the industry today. The Department conducts technical development programmes for industry personnel and academia. Some of the key areas of the department research include Drug Metabolism and Pharmacokinetic studies, Bioanalysis and Therapeutic Drug Monitoring, Impurity Profiling – elemental and chiral, Analytical Method Development and Validation, Herbal and Nutraceutical Product Analysis.

## Organizing Committee

### Patrons

**Dr. N Sivaprasad**

*President, IPA-MSB*

**Mr. Nitin Maniar**

*Chairman, Governing Body*

### Convener

**Dr. Krishnapriya Mohanraj**

*I/C Principal*

### Advisory Committee

**Prof. Evans Coutinho**

**Dr. Premlata Ambre**

**Dr. Vaishali Dixit**

### Coordinator

**Dr. Vaishali Shirsat**

*I/C HOD-Department of Pharmaceutical Analysis*

### Co-Coordinator

**Prof. Krishna Iyer**

*Professor of Pharmaceutical Chemistry*

## Organizing Committee Members

**Dr. Dipti Gatne**

**Dr. Sagar Patel**

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- Approved by AICTE, PCI, UGC, DTE, Permanent affiliation to University of Mumbai and Recognized by DSIR as SIRO (Govt. of India)
- Accredited by National Board of Accreditation for UG Program for the Academic Years 2017-18 to 2021-22 i.e. up to 30.06.2022
- National Institutional Ranking Framework India Ranking 6<sup>th</sup> in 2016, 15<sup>th</sup> in 2017, 8<sup>th</sup> in 2018, 24<sup>th</sup> in 2019
- Best Industry Linked Pharmacy Institution (Established Degree) 1<sup>st</sup> in 2013 & 2014, Mentor in 2015 & 2<sup>nd</sup> in 2019
- Member of 
- We are available on: 



# Schedule

## Day 1

01 June 2021

Tuesday

09:00 am to 9.30 am

Inaugural function

09:30 am to 11.30 am



**Keynote address**

*Prof. Saranjit Singh, Professor & HOD-Department of Pharmaceutical Analysis, NIPER, Mohali*

11.45 am to 1:45 pm



**Modulating drug disposition using Lipid based Nanotherapeutics**

*Prof. Vandana Patravale, Department of Pharmaceutical Sciences & Technology, Institute of Chemical Technology, Mumbai, Maharashtra*

02.45 pm to 04.45 pm



**Various approaches for overcoming drug metabolism challenges**

*Dr. Mandar Kodgule, Chairman and CEO, IQGEN-X Pharma Pvt. Ltd., Navi Mumbai, Maharashtra*

## Day 2

02 June 2021

Wednesday

09:30 am to 11.30 am



**Bioisosterism in Drug metabolism**

*Prof. M.S. Degani, Department of Pharmaceutical Sciences & Technology, Institute of Chemical Technology, Mumbai, Maharashtra*

11.45 am to 1:45 pm



**In vitro ADME and Sample preparation for Bioanalysis**

*Dr. Prakash Vachaspati, Associate Research Director, Biocon Bristol Myers Squibb R & D Center (BBRC), Syngene International, Bangalore, Karnataka*

02.45 pm to 04.45 pm



**Challenges in Bioanalytical Method development for Pharmacokinetics and Therapeutic drug monitoring with Case studies**

*Prof. Krishnapriya Mohanraj, I/c Principal, Bombay College of Pharmacy, Mumbai, Maharashtra*

## Day 3

03 June 2021

Thursday

09:30 am to 11.30 am



**HPLC and Mass spectrometric analysis-**

**A Case study for Phenotyping and Herb-Drug interaction**

*Dr. Vaishali Shirsat, I/c HOD-Department of Pharmaceutical Analysis, Bombay College of Pharmacy, Mumbai, Maharashtra*

11.45 am to 1:45 pm



**Quality control of Radiopharmaceuticals**

*Dr. Padmanabhan, Ex-DGM, Radiopharmaceuticals Quality Control, Board of Radiation and Isotope Technology, Mumbai, Maharashtra*

02.45 pm to 04.45 pm



**Bioanalysis of Dried blood spots**

*Dr. Prashant Kole, Senior Principal Investigator, Biocon Bristol Myers Squibb R & D Centre (BBRC), Syngene International Ltd, Bangalore, Karnataka*

**Day 4**  
04 June 2021  
Friday

09:30 am to 11.30 am



### Oral NDDS for a Favorable 'ADME' Drug Profile

*Dr. R.K Sanghavi, Chairman-Nutraceutical Committee (IDMA), Sr. Consulting Clinician, Advisor-Positive health, Expert-Healthcare industry, Neuro marketing and TechnoRegulatory, Pharma & Nutra, Mumbai, Maharashtra*

11.45 am to 1:45 pm



### Clinical Trials and importance of Data Analytics

*Indrani Kakade, Head Biometrics & Data Services, Cliantha Research, Ahmedabad, Gujarat*

02.45 pm to 04.45 pm



### DMPK: Translation from Lab to the Clinic

*Dr. Ajit Nair, Chief Development Officer, Rhizen Pharmaceuticals AG, Hyderabad, Telangana*

**Day 5**  
05 June 2021  
Saturday

09:30 am to 11.30 am



### Personalised medicines

*Prof. Krishna Iyer, Department of Pharmaceutical Chemistry, Bombay College of Pharmacy, Mumbai, Maharashtra*

11.45 am to 1:45 pm



### Finding peace Inside-Tips on stress Management

*Shriharsh Kaushik, Founder, Krux EM Business Pvt.*

2.45 pm to 4:00 pm



### Assessment & Feedback

4.00 pm to 4:30 pm



### Valedictory Function