



# National Conference on MULTIDISCIPLINARY PERSPECTIVE FOR DRUG DISCOVERY AND DRUG DEVELOPMENT

Sponsored by  
**The Maharaja Sayajirao University of Baroda**

Organized by  
**Faculty of Pharmacy**  
and  
**MSU Pharmacy Alumni Association**  
**The Maharaja Sayajirao University of Baroda**

9<sup>th</sup> September 2023

Venue:

**Dr. Mrunalini Devi Puar Auditorium**  
**Faculty of Family Community Science,**  
**Opp. Sayaji baug**

**The Maharaja Sayajirao University of Baroda, Vadodara**

**Registration Link:**

<https://forms.gle/cLt5wZvD5JnqmyQN9>

**Payment Details**

Name of the account holder: Dean, Faculty of Pharmacy  
Account Number: 02010200000760  
IFSC code: BARB0MSUNIV  
Branch : M.S.U. Campus Branch

**Registration Fees**

Students: Rs. 250/-  
Academicians : Rs. 500/-  
Industry Persons: Rs. 1000/-

# About the Organizers

The Faculty of Pharmacy, is a part of India's internationally renowned The Maharaja Sayajirao University of Baroda (1949) which has blossomed from the Baroda College (1881). The University has been accredited with Grade 'A+' by NAAC in 2022. The Pharmacy Department was founded as one of the departments of Faculty of Technology and Engineering, The M. S. University of Baroda in June 1973. In December 2015, it was given the status of a Faculty. The Faculty is a top ranked institution imparting quality education from UG to PhD level in Pharmaceutical Sciences and also enjoys the reputation of being an Advanced Research Center, boasting of renowned scientists and academicians. Faculty is ranked 30<sup>th</sup> in Pharmacy institutions of India by the National Institutional Ranking Framework (NIRF) of the Ministry of Education, Government of India. The Faculty houses a dedicated Research building with state of art facility at Donor's Plaza, Fatehgunj. The new building of Faculty, the construction of which is generously funded by the Government of Gujarat, will be inaugurated very soon. The quantum of research is evident by the large number of PhD awarded, publications in national and international journal of repute, significant number of patents and large amount of funding received from government agencies like HWB, DST-FIST, TIFAC-CORE, AICTE, UGC, CSIR, ICMR, DBT etc. The Faculty continues to strive to provide quality education at undergraduate and post graduate levels and retain its name in research related to pharmaceutical sciences. This year, Pharmacy Department is celebrating its Golden Jubilee along with University ka Amrit Mahotsav (UKAM).

# About the Conference

In the field of pharmaceutical research, the process of drug discovery and development has evolved significantly over the years. Traditionally, drug discovery was primarily focused on identifying small molecules with specific therapeutic properties, while drug development encompassed the subsequent stages of preclinical and clinical testing. However, the complex nature of diseases and the challenges associated with developing effective treatments have necessitated a shift towards a multidisciplinary perspective.

The multidisciplinary perspective emphasizes the need for collaborative efforts between researchers from different fields to improve the efficiency and success rate of drug discovery and development. This conference will explore the importance and benefits of adopting a multidisciplinary approach in drug discovery and drug development to address the intricacies of disease mechanisms and optimize therapeutic interventions. Computational tools expedite lead identification, optimizes drug candidates, and reduces experimental costs and time. Molecular docking, molecular dynamics simulations, and machine learning facilitate the assessment of binding affinity and drug efficacy. CADD enables the exploration of vast chemical spaces, refining hit-to-lead progression and enabling the design of more potent and selective drugs, significantly advancing pharmaceutical research. Furthermore, Animal models are crucial for mechanistic insights aid in comprehending absorption, distribution, metabolism, and excretion (ADME) processes for the discovered NCEs. These models enable investigation of NCE behavior, interactions, and toxicity, guiding formulation and dosage adjustments. Integrating animal studies with in vitro methods enhances the understanding of NCE disposition, facilitating safer and more effective drug design. After finding positive results in animal models, clinical trials are pivotal stages in drug development, evaluating safety, efficacy, and potential adverse effects in human subjects. Regulatory bodies review trial data before approving a New Chemical Entity (NCE) for market entry. Model-informed drug development (MIDD) is an approach that involves developing and applying exposure-based, biological and statistical models derived from preclinical and clinical data sources for drug development and decision-making. It leverages a thorough understanding of the drug, a disease, and how a drug affects the human body, as well as how the body responds to the drug.

This conference focuses on various multidisciplinary aspects in drug discovery and development that include Computer Aided Drug Design in New Drug Discovery, Animal models used for mechanistic understanding of disposition of NCEs, The relevance of clinical trials in the drug development process and Model-Informed Drug Development - Current Scenario.



**Patron**

**Prof. (Dr.) Vijay Kumar Srivastava**  
Hon'ble Vice –Chancellor  
The Maharaja Sayajirao University of Baroda



**Chief Guest**

**Mr. Girish Chovatia**  
CMD, Ami Life Sciences Pvt  
Ltd. Vadodara

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**Dr. Mahesh Chhabria**  
Principal,  
L. M. College of  
Pharmacy, Ahmedabad



**Dr. Arti Thakkar**  
Associate Director,  
BD, Pumas-AI, Inc.  
New Delhi



**Dr Thanga Mariappan**  
Director & Head,  
PCO, BBRC,  
Bangalore



**Mr. Akshaya Nath**  
Executive VP,  
Intas Pharmaceuticals,  
Ahmedabad

**Panel discussion-Panelists**

**Dr. Chhaya Gadgoli**  
Professor,  
SVB College of  
Pharmacy  
Mumbai

**Dr. Richa Dayaramani**  
Principal and Professor  
Silver Oak Institute of  
Pharmacy  
Ahmedabad

**Dr. Rishit Zalawadia**  
DYGM- R&D,  
Sun Pharmaceutical  
Industries Limited  
Vadodara

**Dr. Mayur Parmar**  
Deputy Collector and  
Sub Divisional  
Magistrate  
Government of Gujarat

**Organizing Committee**

**MPA President** Dr. Jayant B. Dave

**Convener** Prof. Krutika Sawant  
Dean, Faculty of Pharmacy  
The M. S. University of Baroda

**Coordinators** Dr. Navnit Prajapati  
Dr. Bhavik Chauhan

**Advisory  
Committee** Prof. M. R. Yadav  
Shri Shiv Rathod  
Dr. Dushyant Patel

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Dr. Kirti Patel  
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