

MCADDI  
2024

*in association with*

 **Biocon Academy**  
Adding Value, Enhancing Skills

# Medicinal Chemistry And Drug Discovery & Development India 2024 (MCADDI 2024)



**Venue:** Biocon Academy,  
3rd Floor, PB Soft Tech, Electronic City Phase II,  
Bangalore - 560100

**Date:** September 22 – 27, 2024

# Medicinal Chemistry And Drug Discovery & Development India 2024 (MCADDI 2024)

Biocon Academy, in association with American Chemical Society (ACS) Medicinal Chemistry Division (MEDI) and Strategic Pharma Innovation-Sourcing Center LLC, USA proudly announce the residential course, Medicinal Chemistry and Drug Discovery & Development India 2024 (MCADDI 2024) to be held in September 2024 at the Biocon Academy campus in Bangalore, India. The five days program will be co-sponsored by the ACS MEDI Division and the Human Health Division of International Union of Pure and Applied Chemistry (IUPAC). MCADDI 2024 builds on the successful MCADDI 2019 course which was also held at the Biocon Academy Campus and drew over 100 attendees from industry and academia.

**MCADDI 2024** will present the principles of Medicinal Chemistry, Drug Discovery & Development in a format that is designed for industrial and academic participants who are currently working in this area. The course will include thirty lectures on target identification and validation, lead optimization, drug metabolism and pharmacokinetics, molecular modeling, bioisosteres, structure-based & AI based drug design, drug-like properties, pharmaceuticals, discovery of biologics and other topics of interest to drug discovery & development scientists. In MCADDI 2024, we have dedicated several lectures on pharmaceutical development CMC topics including process optimization and development, bio-pharmaceuticals and analytical sciences as well as integrated drug discovery and development case histories. The sessions are designed to be highly interactive and will include case studies to enhance the learning process. The highlight of this program would be the inclusion of novel modalities such as ADC, Protein Degraders and Molecular Glues as well as pharmaceutical development with the discovery value chain.

We hope that you will  
benefit from joining  
this outstanding course  
on medicinal chemistry  
and drug discovery &  
development.

## Program Schedule

Sunday, September 22nd 2024		
11:00 - 16:00	<b>REGISTRATION</b>	
Session Chair	Balu Balasubramanian	Strategic Pharma Innovation-Sourcing Center, USA
16:00 - 16:15	<b>WELCOME</b>	<b>Balu Balasubramanian</b> Strategic Pharma Innovation-Sourcing Center, USA
16:15 - 17:15	<b>Lecture 1</b> Principles of Medicinal Chemistry - 1	<b>Thomas Prisinzano</b> Univ. of Kentucky, USA
17:15 - 18:15	<b>Lecture 2</b> Principles of Medicinal Chemistry - 2	<b>Thomas Prisinzano</b> Univ. of Kentucky, USA
18:15 - 19:15	<b>Lecture 3</b> Target ID and Validation	<b>Manjunath Ramarao</b> Atomic AI, USA
19:15 - 21:30	<b>RECEPTION AND DINNER</b>	
Monday, September 23rd 2024		
Session Chair	William Greenlee	Medchem Discovery Consulting LLC, USA
8:30 - 9:30	<b>Lecture 4</b> Hit Identification, HTS, Virtual Screening and Phenotypic Screening	<b>Manjunath Ramarao</b> Atomic AI, USA
9:30 - 10:30	<b>Lecture 5</b> Drug-Like Properties	<b>Thomas Prisinzano,</b> Univ. of Kentucky, USA
10:30 - 11:00	<b>COFFEE BREAK</b>	
11:00 - 12:00	<b>Lecture 6</b> Enzymes, Receptors, and Ion Channels	<b>Manjunath Ramarao</b> Atomic AI, US
12:00 - 13:30	<b>LUNCH BREAK</b>	
Session Chair	Thomas Prisinzano	Univ. of Kentucky, USA
13:30 - 14:30	<b>Lecture 7</b> Principles of Molecular Interactions	<b>Vincent Stoll</b> AbbVie, USA
14:30 - 15:30	<b>Lecture 8</b> Hit-to Lead and Lead Optimization	<b>Bruce Ellsworth</b> Bristol-Myers Squibb, USA
15:30 - 16:00	<b>TEA BREAK</b>	
16:00 - 17:00	<b>Lecture 9</b> Case History – Integrated Drug Discovery and Development	<b>Mukul Jain</b> Zydus

Tuesday, September 24th, 2024		
Session Chair:	William Greenlee	Medchem Discovery Consulting LLC, USA
8:30 - 9:30	<b>Lecture 10</b> G-Protein Coupled Receptors	<b>Manjunath Ramarao</b> Atomic AI, USA
9:30 - 10:30	<b>Lecture 11</b> Lessons in Structure-Based Drug Design	<b>Vincent Stoll</b> AbbVie, USA
10:30 - 11:00	<b>COFFEE BREAK</b>	
11:00 - 12:00	<b>Lecture 12</b> In-silico Tools for Medicinal Chemists	<b>Rachel Lagiakos</b> Schrodinger, USA
12:00 - 13:30	<b>LUNCH &amp; LEARN SESSION</b>	<b>BY MERCK LIFE SCIENCES</b>
Session Chair:	Vincent Stoll	AbbVie, USA
13:30 - 14:30	<b>Lecture 13</b> Drug Metabolism, Pharmacokinetics and Disposition	<b>Sandya Mandlekar</b> Genentech, USA
15:00 - 16:00	<b>TEA BREAK/Exhibition Hall</b>	
16:00 - 17:00	<b>Lecture 14</b> Bioisosteres in Drug Design	<b>Nick Meanwell</b> Baruch S. Blumberg Institute, USA
17:00 - 18:00	<b>Lecture 15 - Case History</b> Application of In-Silico Tools in Drug Discovery	<b>Rachel Lagiakos</b> Schrodinger, USA
Wednesday, September 25th, 2024		
Session Chair:	Manjunath Ramarao	Atomic AI, USA
8:30 - 9:30	<b>Lecture 16</b> Preclinical to Clinical Translational of vADME and PK/PD	<b>Sandya Mandlekar</b> Genentech, USA
9:30 - 10:30	<b>Lecture 17</b> Prodrugs in Drug Discovery	<b>Nick Meanwell</b> Baruch S. Blumberg Institute, USA
10:30 - 11:00	<b>COFFEE BREAK</b>	
11:00 - 12:00	<b>Lecture 18</b> Introduction to Biologics – Part 1	<b>Rustom Mody</b> Sun Pharma, India
12:00 - 13:30	<b>LUNCH BREAK</b>	
Session Chair:	Nick Meanwell	Baruch S. Blumberg Institute, USA
13:30 - 14:30	<b>Lecture 19</b> Introduction to Biologics – Part 2	<b>Rustom Mody</b> Sun Pharma, India
14:30 - 15:30	<b>Lecture 20</b> Principles of Antibody-Drug Conjugates and Beyond	<b>Nitin Damle</b> Sun Pharma, India
15:30 - 16:15	<b>TEA BREAK/Exhibition Hall</b>	
16:15 - 17:15	<b>Lecture 21</b> Bio Pharmaceutics Developability Characteristics	<b>Sridhar Desikan</b> Nexus, USA

Thursday, September 26th, 2024		
Session Chair:	Balu Balasubramanian	Strategic Pharma Innovation-Sourcing Center LLC, USA
8:30 - 9:30	<b>Lecture 22</b> Designing Around Toxicophores in Drug Discovery	<b>Nick Meanwell</b> Baruch S. Blumberg Institute, USA
9:30 - 10:30	<b>Lecture 23</b> Targeted Protein Degradors and Molecular Glues	<b>Bruce Ellsworth (Ashok Purandare)</b> Bristol-Myers Squibb, USA
10:30 - 11:00	<b>COFFEE BREAK</b>	
11:00 -12:00	<b>Lecture 24</b> Antibody-Drug Conjugate Case History	<b>Nitin Damle</b> Sun Pharma, India
12:00 -13:30	<b>LUNCH BREAK</b>	
Session Chair:	Sandhya Mandlekar	Genentech, USA
13:30 - 14:30	<b>Lecture 25</b> General Introduction to Process Chemistry	<b>Martin Eastgate</b> Bristol-Myers Squibb, USA
14:40 - 15:30	<b>Lecture 26</b> Integrated Drug Discovery and Development	<b>Bruce Ellsworth</b> Bristol-Myers Squibb, USA
15:30 - 16:00	<b>TEA BREAK</b>	
16:00 - 17:00	<b>Lecture 27</b> Case History of Integrated Process Development - 2	<b>Martin Eastgate</b> Bristol-Myers Squibb, USA
Session Chair:	Balu Balasubramanian	Strategic Pharma Innovation-Sourcing Center LLC , USA
17:30 - 19:00	<b>Keynote Lecture</b> Current Trends in Indian Pharmaceutical and Biotechnology Conversation with Indian CDMOS/CROs Leaders	
19:00 -21:30	<b>RECEPTION AND DINNER</b>	
Friday, September 27th, 2024		
Session Chair:	Sridhar Desikan	Nexus, USA
8:30 - 9:30	<b>Lecture 28</b> Applications of Heterocycles in Drug Design	<b>Nick Meanwell</b> Baruch S. Blumberg Institute, USA
9:30 - 10:30	<b>Lecture 29</b> Discovery of a first-in-class RAD51:BRCA2 inhibitor-a potential pan cancer drug	<b>CSN Murthy</b> Satya Pharma Innovation, India
10:30 - 11:00	<b>COFFEE BREAK</b>	
11:00 - 12:00	<b>Lecture 30</b> Case History - Discovery and Development of a First-in-Class Macrophage Checkpoint Inhibitor for Cancer Therapy	<b>Murali Ramachandra</b> Aurigene Oncology, India
12:00 - 13:00	<b>LUNCH &amp; LEARN SESSION</b>	<b>BY AGILENT TECHNOLOGIES</b>
13:00 - 14:00	<b>Lecture 31</b> Case History - Discovery and Development of Fostemsavir	<b>Nick Meanwell</b> Baruch S. Blumberg Institute, USA
14:00 -15:00	<b>Lecture 32</b> Case History: Evolution of HPK1 clinical candidate, GRC 54276: preclinical and clinical updates	<b>Nagaraj Gowda</b> Glenmark Pharmaceuticals
15:00 - 15:15	<b>Concluding Remarks</b>	<b>William Greenlee</b> MedChem Discovery Consulting, LLC, USA

## Accomodation

Hotel Name	Distance & Travel Time	Tariff - Single Occupancy	Tariff - Double Occupancy	Plan
<b>Lemon Tree Hotel</b> 55A, Hosur Main Road, Electronics City, Phase 1 Bengaluru 560100, Karnataka, India T: +91 80 44232323	3.8 Km 15 Mins	4600 + tax	5850 + tax	CP + office Transfer
<b>Oterra</b> 43, Velankani Tech Park, Hosur Rd, Electronics City Phase 1, Electronic City, Bengaluru, Karnataka 560100 T: +91 80 3003 0303	4.3 Km 15 Mins	9250 + tax	11250 + tax	CP
<b>Otium by Oterra</b> 26A, Electronic City Phase I, Electronics City Phase 1, Electronic City, Bengaluru, Karnataka 560100 T: +91 80 4040 8888	2.7 Km 10 Mins	4250 + tax	5250 + tax	MAP + office Transfer
<b>Keys</b> Singasandra, Hosur Main Road, Bengaluru, Karnataka, 560068 T: +91 80 3944 1000	7.8 Km 21 Mins	3250 + tax	4250 + tax	CP + office Transfer
<b>Starlite</b> 1, Smondo Suites, E 39/275, Smondoville Road, Neotown, Electronic City, Bengaluru, Bommasandra, Karnataka 560100 T: +91 80 4340 3333	5.5 Km 20 Mins	2200 + tax	3200 + tax	MAP + Office Transfers
<b>Rest Inn</b> 27/E, Telephone Exchange Road, Electronic City Phase 1, Bangalore - 560100 T: +91 80 4585 8555	3.2 Km 9 Mins	2200 + tax	3200 + tax	MAP + Office Transfers
<b>Hotel IVA</b> 65, Metro Station, 1, Hosur Rd, opposite Hebbagodi, Kammasandra, Electronic City, Bengaluru, Karnataka 560099 T: +91 80 3520 9500	2.7 Km 10 Mins	2500 + tax	3600 + tax	MAP + Office Transfers
<b>Holiday Inn Express</b> Bommasandra Industrial Area Attibele Hobli, Taluk, Anekal, Bengaluru, Karnataka 560099 T: 080 6974 9999	5.0 Km 14 Mins	4700 + Tax	5900 + tax	MAP + Office Transfers

For details or any queries, write to: [savneetkaur.babacon03@biocon.com](mailto:savneetkaur.babacon03@biocon.com) | T: 08951775283/ 08884899898

## Registration

### MCADDI Course Registration Fee

INDUSTRIAL DELEGATE		ACADEMIC/STUDENT DELEGATE	
On or Before June 30, 2024	INR 40,000 (Incl. of Taxes)	On or Before June 30, 2024	INR 24,000 (Incl. of Taxes)
July 1, 2024 to August 31, 2024	INR 45,000 (Incl. of Taxes)	July 1, 2024 to August 31, 2024	INR 27,000 (Incl. of Taxes)
After September 1, 2024	INR 50,000 (Incl. of Taxes)	After September 1, 2024	INR 30,000 (Incl. of Taxes)

## REGISTRATIONS NOW OPEN!

### How to Register

Participants can send the payment for **MCADDI 2024** either by DD drawn in favour of **Biocon Academy** payable at Bangalore OR can do a NEFT to the following:

**Beneficiary Name** : Biocon ACADEMY

**IFSC code** : HDFC0000523

**Beneficiary Bank** : HDFC BANK LIMITED, 8/24, Salco Centre, Richmond Road, Bangalore – 560 025

**Beneficiary A/c No** : 05230310003152

**Please note:** A scanned copy of the NEFT receipt/Demand Draft must be attached below during the registration process.

**For Registration,** please click the link: <https://forms.gle/YisxRq4qZVtFT9wvZ>

## Advisory Board

<b>Dr. Balu N. Balasubramanian</b>	- Pharma Innova on Sourcing Center, LLC, USA
<b>Dr. William Greenlee</b>	- Med Chem Discovery Consulting, LLC, USA

## Organizing Committee

<b>Dr. Venkat Palle</b>	- Sun Pharma
<b>Dr. Sudhir Kumar Singh</b>	- Suven Pharma
<b>Dr. Arvind Mathur</b>	- BMS USA/BBRC India
<b>Dr. Nick Meanwell</b>	- The Baruch S. Blumberg Institute
<b>Dr. Subhendu Kumar</b>	- Syngene International
<b>Ms. Bindu Ajit</b>	- Biocon Academy, India
<b>Mr. S.S. Easwaran</b>	- Biocon Academy, India

## About Biocon Academy

Biocon Academy - Center of Excellence for Advanced Learning in Applied Biosciences was introduced as a CSR Initiative of Biocon with a commitment to create a globally competitive Biotech ecosystem in India through skill development.

Biocon Academy leverages rich industry experience of Biocon and subject expertise of international Education Partners, such as Keck Graduate Institute, California, USA and BITS Pilani, India to deliver industry-oriented training programs to biotech students. The Programs offered here aim to empower the Biotechnology and engineering graduates with advanced learning and industrial proficiency through job-skills development essential to build a promising career in the Biotech industry.



## Glimpses of MCCADI 2019



For details or any queries, write to: [savneetkaur.babacon03@biocon.com](mailto:savneetkaur.babacon03@biocon.com) | T: 08951775283/ 08884899898