

MCADDI  
2019

*in association with*

 **Biocon Academy**  
Adding Value, Enhancing Skills

# Medicinal Chemistry And Drug Discovery & Development India 2019 (MCADDI 2019)



Division of  
Medicinal  
Chemistry



**Venue:** Neville Bain Training Center,  
Biocon Academy, Biocon House, Semicon Park,  
Electronic City, Phase II, Hosur Road, Bengaluru, Karnataka 560100  
**Date:** March 04th - 09th, 2019

# Medicinal Chemistry, Drug Discovery & Development India, 2019 (MCADDI 2019)

Biocon Academy, in association with American Chemical Society (ACS) Medicinal Chemistry Division (MEDI) and Pharma Innovation Sourcing Center LLC, USA proudly announce the residential course, Medicinal Chemistry and Drug Discovery & Development India 2019 (MCADDI2019) to be held in March 2019 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 2019 builds on the successful MCADDI 2017 course which was also held at the Biocon Academy Campus and drew over 100 attendees from industry and academia.

**MCADDI 2019** 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, or plan to do so. The course will include thirty lectures on target identification and validation, lead optimization, drug metabolism and pharmacokinetics, molecular modelling, bioisosteres, structure based drug design, drug-like properties, pharmaceuticals, discovery of biologics and other topics of interest to drug discovery & development scientists. In MCADDI 2019, we have dedicated several lectures on pharmaceutical development CMC topics including process optimization and development, biopharmaceuticals 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 pharmaceutical development with the discovery value chain. The key note lectures will be presented by Dr. Percy Carter, Head of Discovery and Dr. Christopher Sinko, Head of Pharmaceutical Development at Bristol-Myers Squibb, USA and Ms. Kiran Mazumdar Shaw, Chairwoman, Biocon, India.

We hope that you  
will join us for this  
outstanding course  
on medicinal  
chemistry and drug  
discovery &  
development.

## Program Schedule

Monday, March 4th 2019		
11:00-18:00	<b>REGISTRATION</b>	
12:00-12:45	<b>LUNCH</b>	
Session Chair	Balu Balasubramanian	
12:50-13:00	<b>WELCOME</b>	<b>Dr. Balu Balasubramanian</b> Pharma Innovation Sourcing Center, USA
13:00-15:00	<b>Lectures 1 and 2</b> Basic Principles of Medicinal Chemistry	<b>Prof. Thomas Prisinzano,</b> Univ. of Kansas, USA
15:30-16:30	<b>Lecture 3</b> Target Identification and Validation	<b>Dr. Manjunath Ramarao</b> Biocon-BMS R&D Center, India
16:45-17:15	<b>TEA BREAK</b>	
Session Chair	William Greenlee	
17:15-18:15	<b>Lecture 4</b> Hit Identification: High-Throughput / Phenotypic/ Virtual / Fragment screening	<b>Dr. Nagaraj Gowda</b> Glenmark, India
18:30-19:30	<b>Lecture 5</b> Hit-to-Lead Process	<b>Dr. Manjunath Ramarao</b> Biocon-BMS R&D Center, India
19:45-20:30	<b>RECEPTION AND DINNER</b>	
Tuesday, March 5th, 2019		
Session Chair	Thomas Prisinzano	
8:30-9:30	<b>Lecture 6</b> Lead Optimization	<b>Dr. Bruce Ellsworth</b> Bristol-Myers Squibb, USA
9:45-10:45	<b>Lecture 7</b> Designing Around Toxicophores in Drug Discovery	<b>Dr. Nick Meanwell</b> Bristol-Myers Squibb, USA
11:00 -11:30	<b>TEA BREAK</b>	
11:30- 12:30	<b>Lecture 8</b> Special Topic: Applications of Fluorine in Drug Design and Discovery	<b>Dr. Nick Meanwell</b> Bristol-Myers Squibb, USA
12:45-13:45	<b>LUNCH BREAK</b>	
Session Chair	Thomas Prisinzano	
13:45-14:45	<b>Lecture 9</b> Enzymes, Receptors and Ion Channels	<b>Dr. Manjunath Ramarao</b> Biocon-BMS R&D Center, India
15:00-16:00	<b>Lecture 10</b> G-Protein Coupled Receptors	<b>Dr. Bruce Ellsworth</b> Bristol-Myers Squibb, USA
16:15-16:45	<b>TEA BREAK</b>	
16:45-17:45	<b>Lecture 11</b> Tactical Applications of Bioisosteres in Drug Design	<b>Dr. Nick Meanwell</b> Bristol-Myers Squibb, USA
18:00-19:00	<b>Lecture 12</b> Applications of Heterocycles in Drug Design	<b>Dr. Nick Meanwell</b> Bristol-Myers Squibb, USA

## Program Schedule

Wednesday, March 6th, 2019		
Session Chair:	William Greenlee	
8:30-9:30	<b>Lecture 13</b> Lessons in Structure-Based Drug Design	<b>Dr. Vincent Stoll</b> AbbVie, USA
9:45-10:45	<b>Lecture 14</b> Principles of Molecular Interactions	<b>Dr. Vincent Stoll</b> AbbVie, USA
11:00-11:30	<b>TEA BREAK</b>	
11:30-12:30	<b>Lecture 15</b> Protein Binding	<b>Dr. Swamy Yeleswaram</b> Incyte, USA
12:45-13:45	<b>LUNCH BREAK</b>	
Session Chair:	Vincent Stoll	
13:45-14:45	<b>Lecture 16</b> Drug Metabolism and PK	<b>Dr. Swamy Yeleswaram</b> Incyte, USA
15:00-16:00	<b>TEA BREAK/Exhibition Hall</b>	
16:00-17:30	<b>Lecture 17 - Case History</b> Saroglitazar (Lipaglyn®) for Treatment of Dyslipidemia and Hypertriglyceridemia in Type II	<b>Dr. Mukul Jain</b> Zydus, India
Thursday, March 7th, 2019		
Session Chair:	Mukul Jain	
8:30-9:30	<b>Lecture 18 - Case History:</b> Ruxolitinib (Jakafi®) for Treatment of Polycythemia Vera and Myelofibrosis	<b>Dr. Swamy Yeleswaram</b> Incyte, USA
9:45-10:45	<b>Lecture 19 - Case History:</b> Pharmaceutical Development aspects of Ruxolitinib (Jakafi®)	<b>Dr. Swamy Yeleswaram</b> Incyte, USA
11:00-11:30	<b>TEA BREAK</b>	
11:30-12:30	<b>Lecture 20</b> Introduction to Biologics Biologics and Biosimilar Design and Development - Part 1	<b>Dr. Narendra Chirmule</b> Biocon, India
12:45-13:45	<b>LUNCH BREAK</b>	
Session Chair:	Swamy Yeleswaram	
13:45-14:45	<b>Lecture 21</b> Introduction to Biologics Biologics and Biosimilar Design and Development - Part 2	<b>Dr. Narendra Chirmule</b> Biocon, India
15:00-16:00	<b>Lecture 22</b> Antibody-Drug Conjugates (ADCs)	<b>Dr. Nitin Damle</b> Sun Pharma, India
16:15-17:00	<b>TEA BREAK/Exhibition Hall</b>	

## Program Schedule

Friday, March 8th, 2019		
Session Chair:	Sudhir Kumar Singh -GVK Biosciences, India	
8:30-9:30	<b>Lecture 23</b> General Introduction to Process Chemistry; Phase-appropriate Process Development	<b>Dr. Vaidyanathan Rajappa</b> Biocon-BMS R&D Center, India
9:45-10:45	<b>Lecture 24</b> Drug Product Development - Basic Principles (Pharmaceutics & Analytical)	<b>Dr. Sridhar Desikan</b> Dr. Reddy's Laboratories, India
11:00 – 11:30	<b>TEA BREAK</b>	
11:30-12:30	<b>Lecture 25</b> Case History of Integrated Drug Discovery and Process Development: Part 1 HIV-1 Attachment Inhibitors	<b>Dr. Nick Meanwell</b> Bristol-Myers Squibb, USA
12:30-13:30	<b>LUNCH BREAK</b>	
Session Chair:	Pravin Iyer - Glenmark Pharma, India	
13:30-14:30	<b>Lecture 26</b> Case History of Integrated Drug Discovery and Process Development: Part 2 HIV-1 Attachment Inhibitors	<b>Dr. Martin Eastgate</b> Bristol-Myers Squibb, USA
14:45-15:45	<b>Lecture 27</b> Bio Pharmaceutics – Case History HIV Attachment Inhibitors and Others	<b>Dr. Manish Desai</b> Bristol-Myers Squibb, USA
17:00	<b>Reception, Key Note Lectures</b> <b>Venue: Hotel Radha Regent, Electronic City</b>	
Session Chairs:	Bindu Ajit, Manjunath Rama Rao, Vaidyanathan Rajappa	
17:30-18:00	<b>Keynote Lecture-1</b> Current Trends in Indian Pharmaceutical and Biotechnology	<b>Ms. Kiran Mazumdar Shaw</b> Biocon, India
18:00-18:30	<b>Keynote Lecture-2</b> Future Trends in Drug Discovery	<b>Dr. Percy Carter</b> Bristol-Myers Squibb, USA
18:30-19:00	<b>Keynote Lecture-3</b> Perspectives on Pharmaceutical Development	<b>Dr. Christopher Sinko</b> Bristol-Myers Squibb, USA
19:00 -22:00	<b>RECEPTION AND DINNER</b>	
Saturday, March 9th, 2019		
Session Chair:	Venkata Palle, Lupin, India	
8:30-9:30	<b>Lecture 28</b> Integrated Case History - Process Development	<b>Dr. Vaidyanathan Rajappa</b> Biocon-BMS R&D Center, India
9:45-10:45	<b>Lecture 29</b> Case History of Integrated Drug Discovery and Process Development: Beta Secretase: Past Present and Future Part 1	<b>Dr. Jennifer Allen</b> Amgen- USA
11:00-12:00	<b>Lecture 30</b> Case History of Integrated Drug Discovery and Process Development: Beta Secretase: Past Present and Future Part 2	<b>Dr. Jason Tedrow</b> Amgen- USA
12:15PM -12:30	<b>Concluding Remarks</b>	<b>Dr. William Greenlee</b>
12:30-1:30 PM	<b>LUNCH</b>	

## Accomodation

Hotel Name & Contact Details	Distance & Travel Time from Biocon Academy	Amount in INR CP Plus GST		Amount in INR MPAI	
		Single	Double	Single	Double
<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	6,000.00	7,000.00		
<b>Svenska Design Hotels</b> 56-D, Electronic City, Bangalore 560 100, India. T: +91 80 44310000	3.9 Km 15 Mins	6,000.00	7,000.00		
<b>Ibis Bengaluru</b> Hosur Road, 26/1, Near Central Silk Board Junction, Bommanahalli, Bangalore - 560 068. T: +91 80 49009090	8 Km 25 Mins	3,499.00	4,099.00		
<b>Keys Hotels</b> Singasandra, Hosur Main Road, Bengaluru, Karnataka - 560068. T: +91 80 3944 1000	6 Km 20 Mins	4,000.00	5,000.00		
<b>Radha Regent Bengaluru</b> 110C Electronics City Phase1, Behind Cyber Park Bengaluru – 560100	4 Km 20 mins	5,000.00	6,200.00		
<b>Radha Regent Bengaluru</b> 110C Electronics City Phase1, Behind Cyber Park Bengaluru – 560100 DID :+91 8067276842   Tel : +91 80 67276969 Fax: +91 80 67276767	4 Km 20 mins	5,000.00	6,200.00		
<b>Sai Vishram</b> 144/C1, Kirloskar Road, Bommasandra Industrial Area, Hebbagodi, Bangalore-560 099. T+91 80 40400400/ 22634000 (Vegetarian Hotel)	4 Km 20 mins	3,000.00	3,750.00		
<b>Guesture Social Life Spaces</b> (Shanders Alta Vista Apartment), Veerasandra, Electronic City Phase 1 Bangalore – 560100 Mr.Kariappa – 7899932092, kariappa@guesture.in Mr.Nanjappa – 9844524841, nanjappa@guesture.in	3 Kms 15 Mins	1,850.00 [with Breakfast]	2,500.00 [with Breakfast]	2,000.00 [with Breakfast and Dinner]	2,800.00 [with Breakfast and Dinner]

**MPAI** - Means Room + taxes + Breakfast Included Plus one major meal (Dinner) at the restaurants

**CP** - Room + taxes + Breakfast Included

\* Aqua - Service apartments once Flat has three Bedrooms fully furnished

*Please note:* Pick up/drop off between the listed Hotels and Biocon Academy will be arranged by MCADDI and the bus schedule will be included in your welcome kit

## Registration

### MCADDI Course Registration Fee

INDUSTRIAL DELEGATE		ACADEMIC/STUDENT DELEGATE	
On or Before Feb 03, 2019	Net Amount - INR 25,000 + Tax	On or Before Feb 03, 2019	Net Amount - INR 10,000 + Tax
After Feb 04, 2019	Net Amount - INR 27,000 + Tax	After Feb 04, 2019	Net Amount - INR 11,000 + Tax

## REGISTRATIONS NOW OPEN!

### How to Register

Participants can send the payment for MCADDI 2019 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

- Applicants can download the registration form from the website [www.mcaddi2019.com](http://www.mcaddi2019.com) and send duly filled form and demand Draft or confirmation of the NEFT Transfer to : **Biocon Academy, Biocon House, Semicon Park, Electronic City, Phase II, Hosur Road, Bangalore - 560100, India**
- Applications will be considered on first come first serve basis. The deadline for early registration is **February 03rd, 2019**

## Advisory Board

<b>Dr. Balu N. Balasubramanian</b>	- Pharma Innovation Sourcing Center, LLC, USA
<b>Dr. William Greenlee</b>	- Med Chem Discovery Consulting, LLC, USA
<b>Mr. M. B. Chinappa</b>	- Syngene International, India

## Organizing Committee

<b>Dr. Venkat Palle</b>	- Lupin Pharma, India
<b>Dr. Sudhir Kumar Singh</b>	- GVK Biosciences
<b>Dr. Arvind Mathur</b>	- Bristol-Myers Squibb, USA
<b>Dr. Manjunath Rama Rao</b>	- Biocon Bristol-Myers Squibb R &D Center, India
<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 2017

