MHRD’s Global Initiative of Academic Network (GIAN)

INVENTING NEW CHEMICAL ENTITIES FROM TRADITIONAL MEDICINES

60+ hours of academic interaction and mentoring by
Professor Mukund S Chorghade (PhD)
Affiliation: Harvard and Princeton Universities

Broad Area:
Drug Discovery, Development, Translational Research, Synthetic Chemistry

Objectives:
1. Develop insights into the process of drug discovery and development
2. Learn reverse pharmacology, observational therapeutics and informational flow analysis.
3. Train the participants for using traditional knowledge for inventing new chemical entities of certain properties
4. Comparative study of medicines (Diabetes, Oncology, HIV and Malaria)
5. Brainstorming on developing newer alternative medicines

Guest Faculty:
Professor Mukund Chorghade

Hosts:
Dr Ambuja Salgaonkar
Dr Varsha Kelkar-Mane

Duration:
October 9 to 18, 2019 (10 days),
Everyday 5 hours
(9:30 to 12:00 noon and 2:00 to 4:30 pm)

Who can attend
Executives and researchers from pharmaceutical companies.
Students of graduation and master’s degree programmes in biological and life sciences including Biotech, Biochem, Bio-analyticals, Chemistry and, Computational sciences.
Teachers from Universities, Colleges and reputed Academic and Technical Institutions.

Registration fees:
Representatives from corporate houses and NGO: ₹ 7000
Professionals from research and academic institutions: ₹ 2000
Bona-fide students of colleges and universities: ₹ 1000
(DD to be drawn in the name of ‘Finance and Accounts Officer, University of Mumbai’. Candidates name and contact number to be mentioned behind DD)

The registration fees include charges for instructional kit, use of computer labs for tutorials and assignments, 24 hr wi-fi facility and a working lunch for overseas and industry participants.
Accommodation and dinner can be arranged for overseas participants and outstation participants on payment basis.

- The content is equivalent of 4 credits; A certificate of credits earned could be availed for the qualified participants who wish to get examined by paying the Examination fees of ₹ 1000/- per person.
- The Course is available in the flipped class-room mode for those who wish to attend it online. Please write to ambujas@udcs.mu.ac.in for knowing the modalities.
<table>
<thead>
<tr>
<th>DAY</th>
<th>DATE</th>
<th>LECTURE 9:30 to 12:00 am</th>
<th>TUTORIALS (2:00 p.m. onwards)</th>
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<tbody>
<tr>
<td>Day 1</td>
<td>09/10/2019 Wednesday</td>
<td>Lecture 1: Keynote - What this course entails? Key steps in Drug Discovery and Development? Lecture 2: Introduction - Basic principles. Small molecules, Biomolecules, Polymer therapeutics</td>
<td>Historical development of drug discovery and its relevance to contemporary approaches. Discovery of Olaparib or Aliskiren or alike.</td>
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<td>Day 3</td>
<td>11/10/2019 Friday</td>
<td>Lecture 1: Polymer therapeutics. Lead optimization in drug discovery. Unusual experiences with discovery</td>
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<td>Day 4</td>
<td>12/10/2019 Saturday</td>
<td>Lecture 1: Reverse Pharmacology, Observational Therapeutics and Informational Flow Analysis</td>
<td>Detailing of the cases selected by the participants; Recap, Q and A</td>
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<td>Day 6</td>
<td>15/10/2019 Tuesday</td>
<td>Lecture 1: Reverse pharmacology / observational therapeutics for drug discovery Guest Lectures Ashok Vaidya, Rama Vaidya, Vidita Vaidya, Chaya Godse</td>
<td>Reverse pharmacology / observational therapeutics for drug discovery</td>
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<tr>
<td>Day 7</td>
<td>16/10/2019 Wednesday</td>
<td>Lecture 1: Drug metabolism Lecture 2: New technologies for assessment of ADME</td>
<td>Drug substance / Drug product regulations; EU directives FDA’s guidelines and ICH regulations for stability testing, control of drug substance and drug product; Confirm manufacturing consistency and product quality. Q and A recap</td>
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<td>Day 9</td>
<td>18/10/2019 Friday</td>
<td>Lecture 1: Clinical Medicine Guest lectures from King Li, Dean University of Illinois</td>
<td>Integration of solutions of the assignment problems, compilation of project, documentation etc.</td>
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<td>Day 10</td>
<td>18/10/2019 Saturday</td>
<td>Lecture 1: Individual Discussions</td>
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INVENTING NEW CHEMICAL ENTITIES FROM TRADITIONAL MEDICINES
9th to 18th October 2019
An event under
Global Initiative of Academic Network (GIAN)
UNIVERSITY OF MUMBAI
Registration Form

1. Name: Prof/Dr/Mr/Ms:

2. Designation (Student/Faculty):

3. Complete postal address:

4. Telephone/Mobile No.

5. E.mail:

6. Registration Fee (Rs)

7. Accommodation required (Yes/No)

8. Accommodation required for number of days and date:

9. Accommodation Fee = (Rs 200/Day): To be paid to the hostel at the time of arrival. Breakfast, dinner not included. Food is available across 3 canteens in the University premises as well as number of restaurants near the University.

10. Registration cum accommodation fee details

DDNo.: ________________________________ Amount: __________________
Bank: ________________________________
Date: ________________________________ Signature of Participant

Registration fee:
Participants from corporate houses and NGOs: Rs 7000/-
Research/Academic Institutions: Rs 2000/-.
Bonafide students of college and University: Rs 1000/-
(Kindly attach proof: ID card/ Bonafied certificate)

Note: DD to be drawn in favor of “Finance and Accounts Officer University of Mumbai” payable at Mumbai. Candidates name and number should be mentioned behind the DD. Also mention the name of the Course as GIAN OCT 2019 behind the DD.
Kindly fill this form, scan and e-mail to: ambujas@udcs.mu.ac.in