

Who should attend?

Academicians, Research Scholars, Chemists and Students of all disciplines who are working or intended to work in the area of designing of new chemical entities for specific therapeutic target. Scholars who would like to synthesize specific molecules and generate library of diverse molecules for evaluating their biological activities.

Topics of deliberations:

- ◆ Chemical genetics– a brief over view
- ◆ Approaches to design novel bio-active molecules
- ◆ Different strategies for developing chemical libraries
- ◆ Bench to Clinic -Case studies

Practical session:

- Hands-on training session for the design of molecules for specific therapeutic targets.
- Synthesis of small molecules, work up and purification followed by characterization.

Registration fee

Students & Academicians: Rs. 2000/-
Industry Participants: Rs. 3000/-
(Concession will be given to group of 5 or more)

***Limited seats for first 20 participants only**

****Participants are requested to bring their own laptop, safety glasses, gloves, safety-toe footwear and apron.**

Speakers

Prof. D.I. Brahmhatt, Sardar Patel University, Vallabh Vidyanagar

Prof. Bipin Pandey, Saurashtra University, Rajkot

Dr. Abhay Chheda, Avik Pharmaceuticals Ltd., Vapi

Dr. Kamala K. Vasu, PERD Centre, Ahmedabad

Dr. Anirban Samanta, PERD Centre, Ahmedabad

CE Program Coordinator

Dr. Neeta Shrivastava

Seminar Coordinators

Dr. Kamala K. Vasu

Dr. Anirban Samanta

Program Schedule

Day 1

| | |
|---------------------------|----------------|
| Registration: | 8:30- 9:00 AM |
| Welcome & Introduction: | 9:00- 9: 30 AM |
| Session I: Lecture Series | 9:30- 12:15 PM |
| Session II: Practical | 12:15– 5:30 PM |

Day 2

| | |
|-----------------------------|----------------|
| Session III: Lecture Series | 9:30- 10:45 AM |
| Session IV: Practical | 10:45– 5:30 PM |

Highlights

- ◆ To develop the skills and expertise by imparting hands-on- training mainly in designing of inhibitors for specific therapeutics (target) and different synthetic approaches.
- ◆ Excellent opportunity to learn how to execute chemical reaction, its purification and characterization by using one Multi-Component reaction (MCR) as an example.

For further information please contact:

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Two Days National Seminar cum Workshop on Hands on training on Drug Designing and Synthesis: A basic step toward Chemical Genetics

4th-5th March, 2016

Venue

B. V. Patel PERD Centre
Ahmedabad

Organized By

B. V. Patel Education Trust
&
B. V. Patel PERD Centre



Registration Form

Name: Mr./Ms./Dr. _____

Educational Qualifications: _____

Designation: _____

Department: _____

Organization: _____

Official Address: _____

Phone: _____

Fax: _____

Email: _____

Area of Interest: _____

Registration Fees

*DD/Multicity Cheque No: _____

Amount: _____

Bank: _____

Signature: _____

*DD should be drawn in favour of "Shri B.V. Patel Education Trust" payable at Ahmedabad.

RTGS & NEFT details are also available on prior request.

About PERD Centre

B. V. Patel PERD Centre is India's first multidisciplinary postgraduate research institute dedicated to the pursuit of excellence in the pharmaceutical sciences.

In October 1990, the B. V. Patel Education Trust in conjunction with the Indian Pharmaceutical Association established B. V. Patel Pharmaceutical Education & Research Development (PERD) Centre, in the memory of late Shri B. V. Patel, the first Drug Controller of Gujarat.

PERD Centre was started with the aim of providing the pharmaceutical industry and academia the opportunity and resources to undertake the latest in research and development. Equipped with the latest R&D facilities, highly qualified scientific & technical personnel and regular education, training & developmental activities, PERD, today, is an internationally recognized research institute for providing the latest resources to the industry as well as academia. This Centre, a non-profit organization, always acts as a supportive partner to the pharmaceutical industry and academia.

PERD centre also conduct dissertation and summer training programs in various field of pharmacy and allied sciences. Applications for such are invited throughout the year; however these will be screened for interview from time to time depending on the number of vacancies available.



About the Seminar

Background & Objectives:

Small molecules have always been a subject of interest in chemistry and biology for its ability to bring significant effects on the functions of macromolecules in living system. For designing a drug molecule, proper understanding about the structural features of macromolecular target is essential. However, when these features are not defined, applications of traditional drug discovery process become difficult.

As an alternative way, chemical genetics (CG) emerges as a powerful strategy for the discovery of new targets which help to improve the drug discovery process. On the basis of phenotypic screening, it investigates the entire molecular signaling pathway in an efficient and unbiased manner for the identification of the most druggable target. First step of this approach is to assess the biological activities as well as off-target consequence of a drug candidate. So, successful application of CG mostly depends on rational use of functionally and structurally diverse compound libraries.

To address this important requirement, diversity-oriented synthesis (DOS) has emerged as a valuable approach wherein synthetic pathways are branched and divergent. However, the basic of retrosynthetic analysis can be logically used to develop strategy to facilitate synthetic planning in DOS.

The present workshop aims to focus on the different approaches of drug designing, and their limitations, aspects of chemical genetics in drug designing and novel strategies for small molecule synthesis. It also provides hands on training of synthesis (chemical reaction), purification (column chromatography) and characterization.