Organized by Indian Institute of Technology Indore in association with Purdue University, USA

Date of course: 12-23rd Dec. 2016
Last date of registration: Dec. 11, 2016
Free transportation will be available from Silver Springs to Simrol Campus for participants.
Certificate to all participants

REGISTRATION FEES:

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<th>Category</th>
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<tr>
<td>Participants from outside India</td>
<td>USD 500/-</td>
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<tr>
<td>Industry/Business Organizations</td>
<td>Rs.20000/-</td>
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<tr>
<td>Academics Institutions</td>
<td>Rs.2000/-</td>
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<tr>
<td>Students</td>
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E-mail ID:
Contact no:
Signature:
Date:

Payment details:
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Issuing Bank:

Registration fee will be accepted either in cash or DD in favor of The Registrar, IIT INDORE, payable at Indore. Don’t forget to mention your name, contact no and course name “Chemical Biology: The Integration of Chemistry, Biology and Medicine” at the back side of the DD

**REGISTRATION FORM**

NAME:
Designation:
Institution:
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Issuing Bank:

Website: www.iiti.ac.in

Campus: Khandwa Road, Simrol Indore- 452 020, MP, India
Sponsored by MHRD Scheme on Global Initiative on Academic Network (GIAN)
COURSE on 
Chemical Biology: The Integration of Chemistry, Biology and Medicine 
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IMPORTANT DATES

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Indian Institute of Technology, Indore, located in Madhya Pradesh, is an institute of national importance established by government of India in 2009. The institute has developed state of the art infrastructure, well equipped laboratories, sophisticated instrumentation center, modern library, computer center etc. IIT Indore’s campus is at Simrol which is approximately 25 km from down town Indore. The campus is spread over 525 acres of land in natural surroundings providing ideal atmosphere for the students.

Union cabinet has approved a program titled Global initiatives for academic networks (GIAN) in higher education aimed at tapping the talent pool of scientists and entrepreneurs internationally to encourage their engagement with the industries of higher education in India so as to augment the countries existing academic resources, accelerate the pace of quality reforms, and elevate India’s scientific and technological capacities to global excellence.

This multidisciplinary course will discuss how intractable problems in biology can be solved through the application of synthetic organic chemistry and how biology can be harnessed to advance chemistry. The central dogma of molecular biology is the organizing principle for this course.

Starting from DNA, RNA, proteins and their post-translational modifications we will initially focus on the origin, chemistry, structure and functions of these fundamental building blocks of life in cells. We will then proceed for an in-depth review of highly innovative chemical approaches that are used to harness these macromolecules to regulate and monitor numerous biological processes in real time. In addition, we will also discuss several innovative approaches to manipulate biological systems to facilitate novel chemical syntheses. Recent discoveries and their applications, particularly in human diseases, from both literature and industry will be a cornerstone of the course.

- DNA encoded chemical libraries (DECL) and DNA templated organic synthesis (DTS)
- DNA assisted reaction discovery, adapting DECL for DNA microarrays synthesis
- G Quadruplex ligands and inhibitors, high ordered DNA packaging, application in cancer
- Wrinkle in the central dogma, types of non-coding RNAs, RNA interference, Transposons
- Transcription profiling, RNA Aptamers, RNA as therapeutics
- Selective labeling of proteins using orthogonal probes, chemical probes/disruptors of protein-protein Interactions
- Fragment based drug discovery, DARTS etc.,

About Institute

Chemical Biology

GIAN & Its Objectives

Program Schedule

Venue