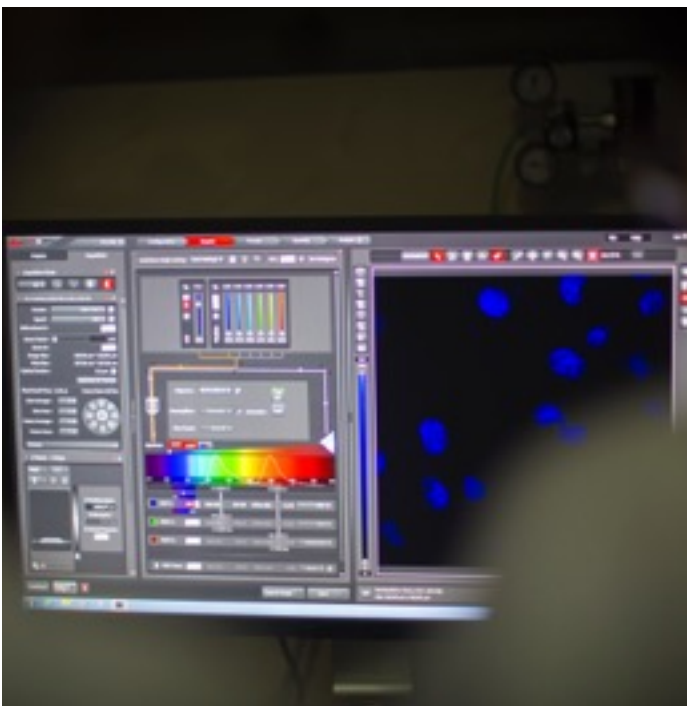


# ICT-BIRAC

## BIOSIMILAR-WORKSHOP-2017

HANDS ON TRAINING FOR BIOSIMILAR/BIOLOGICS CHARACTERISATION, December 11-15, 2017



The Objective of this workshop is to provide hands on training to 20 candidates from academia and Industry towards better

understanding of experimental design and data interpretation of mAb aggregation during the development of biologics/biosimilar products.

**Techniques: SEC, DLS and AUC for Adalimumab**

**Participation/Sponsorship Interest:**

**[rd.jain@ictmumbai.edu.in](mailto:rd.jain@ictmumbai.edu.in) Web: [www.biosimilarindia.com](http://www.biosimilarindia.com)**







# About Institute of Chemical Technology



- Set Up in 1933 to help the Indian Chemical Industry: Autonomous-Elite Institute of the State of Maharashtra
- Imparts graduate and postgraduate (MS/PhD) education in Chemical Engineering and Applied Chemical Technology
  - Best Chemical Engineering program in India
  - Amongst the Best Biotechnology Programs in India
- Unparalleled Impact to Indian Society
  - 500+ First generation 'chemical' entrepreneurs
  - Scientific advisors to Indian governments
  - Head of National Research Labs
- Significant International Impact
  - International academies (eg. FRS) and societies



Mukesh Ambani  
Reliance



Anji Reddy  
Dr. Reddy's



Kishor Mariwala  
Marico



Nilesh Gupta  
Lupin



NiKhil Meswani  
Reliance



N. Sekhsaria  
Gujrat Ambuja



Ashwin Dani  
Asian Paints



MB Parekh  
Pidilite

## International Scientific Impact

### Civilian Honours



Prof. MM Sharma  
Padma Vibhushan  
Padma Bhushan



DR. RA Mashelkar  
Padma Bhushan  
Padma Shri



Prof. JB Joshi  
Padma Bhushan



Prof. GD Yadav  
Padma Shri

## About BIRAC



Biotechnology Industry Research Assistance Council (BIRAC) is a not-for-profit Section 8, Schedule B, Public Sector Enterprise, set up by Department of Biotechnology (DBT), Government of India as an Interface Agency to strengthen and empower the emerging Biotech enterprise to undertake strategic research and innovation, addressing nationally relevant product development needs.

BIRAC is a new industry-academia interface and implements its mandate through a wide range of **impact initiatives**, be it providing access to risk capital through targeted funding, technology transfer, IP management and handholding schemes that help bring **innovation excellence** to the biotech firms and make them globally competitive. In its five years of existence, BIRAC has initiated several schemes, networks and platforms that help to **bridge the existing gaps** in the industry-academia Innovation research and facilitate novel, high quality affordable products development through cutting edge technologies. BIRAC has initiated partnerships with several national and global partners to collaborate and deliver the salient features of its mandate.

### Vision

"To Stimulate, foster and enhance the strategic research and innovation capabilities of the Indian biotech industry, particularly start-ups and SME's, for creation of affordable products addressing the needs of the largest section of society"



Date	Tentative Program
11.12.2017	Welcome <b>Prof. GD Yadav, Vice Chancellor, Institute of Chemical Technology</b> Prof. BN Thorat, Head, Department of Chemical Engineering Dr. Ratnesh Jain, Convener, BiosimilarWorkshop2017
	Keynote Lecture: <b>BIRAC Representative</b> <b>TBD</b>
Theory: Size Exclusion Chromatography for mAb aggregation, Sample Preparation	Expert Talk: Andrew Coffey, Agilent Technologies, UK Debdip Ghosh, Agilent Technologies, India Abhishek Kulshrestha, Biocon Limited Anita Krishnan, Lupin Limited
Experiment: Size Exclusion Chromatography for mAb aggregation	Experts: Andrew Coffey, Agilent Technologies, UK Debdip Ghosh, Agilent Technologies, India Abhishek Kulshrestha, Biocon Limited Anita Krishnan, Lupin Limited
12.12.2017	Keynote Talk: Samir Kulkarni, BioCognate
Data Interpretation and Discussion: Size Exclusion Chromatography for mAb aggregation	Expert: Andrew Coffey, Agilent Technologies, UK Debdip Ghosh, Agilent Technologies, India Abhishek Kulshrestha, Biocon Limited Anita Krishnan, Lupin Limited
Theory: Dynamic Light Scattering for mAb aggregation	Expert Talk: Dr. Michael Caves, Malvern Dr. Anand Tadas, Malvern-Aimil Dr. PA Hassan, BARC
13.12.2017	
Experiment: Dynamic Light Scattering for mAb aggregation	Experts: Dr. Michael Caves, Malvern Dr. Anand Tadas, Malvern Dr. PA Hassan, BARC
Demonstration: New Technologies for Biosimilar Characterization	Participants: Agilent, BioRad, GE Healthcare, Avantor, Waters, SciEx, RidgeView Instruments
14.12.2017	<b>Dr. Dhananjay Patankar, Vice President, Biologics Development, Syngene International, Bengaluru</b>
Theory: Analytical Ultracentrifugation for mAb aggregation and determination of higher order structure	Expert Talk: Prof. Borries Demeler, University of Texas Prof. Siddhart Sarma, IISc Bengaluru (NMR for higher order structure) Dr. S. Kumaran, IMTECH, Chandigarh
Experiment: Analytical Ultracentrifugation, mAb aggregation	Experts: Dr. S. Kumaran, IMTECH, Chandigarh Paresh Gadekar, Beckman LifeSciences Ms. Marianne Saldanha, Ms, Nanda Rohra, Institute of Chemical Technology, Mumbai
15.12.2017	
Data Interpretation and Discussion: Analytical Ultracentrifugation for mAb aggregation	Experts: Dr. S. Kumaran, IMTECH, Chandigarh Dr. Ratnesh Jain, Ms. Marianne Saldanha, Ms, Nanda Rohra, Institute of Chemical Technology, Mumbai
	Conclusion and Vote of Thanks

## IMPORTANT DATES

**REGISTRATION DEADLINE**

**November 30, 2017**

**REGISTRATION FEES**

**₹ 25,000 (Industry)**

**₹ 15,000 (Academic, Faculty,  
Scientist)**

**₹ 10,000 (PhD Students,  
Postdoctoral Fellow)**

### Note

1. Please send your nomination email with CV and credentials of experience in 'Biopharmaceutical/Biologics/Biosimilar' sector.
2. Total 20 seats are available. Companies supported by BIRAC are eligible for discount (25%).
3. Lunch is included in registration fees for faculty, scientist, Postdoctoral Fellow and PhD Students. Accommodation is available on shared basis
4. GST/TDS would be extra wherever applicable
5. Candidates will conduct experiments in lab and receive experimental protocols, method developments tips, data interpretation training.

### Contact :

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**Institute of Chemical Technology**  
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**Website: [www.biosimilarindia.com](http://www.biosimilarindia.com)**

**Website: <http://www.nano-medicine.co.in/biosimilarworkshop2017.html>**

