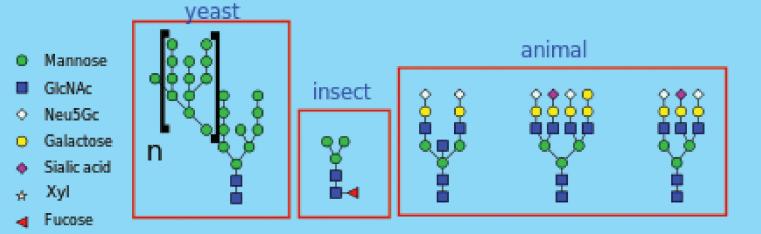






human



plants

Critical Quality Attributes of Biologics and Biosimilar

3-7 February 2020 | Institute of Chemical Technology, Mumbai

In spite of recent advancements in analytical technologies, it remains challenging and time-consuming to fully characterize all variants of mAb products. Although mAb molecular heterogeneities are usually well characterized, their correlations among each other, such as glycosylation and charge heterogeneities, are often less understood. Glycosylation and charge variant understanding is critical for development of protein therapeutics. Ion exchange chromatography, isoelectric focusing, and capillary electrophoresis are commonly employed for charge profiling, whereas liquid chromatography—mass spectrometry (LC—MS) is often limited to structural characterization of isolated charge variants due to its technical complexity. The module shall highlight the understanding of PTMs and glycosylation process, factors affecting glycosylation, fundamentals of mass spectroscopy, capillary electrophoresis and data interpretation.

Turn page for Agenda

For detailed information, please visit: nbmworkshops.com/programICT.htm

Please any queries: nbmworkshop@biotech.co.in

Organising Partner



Management Partner



Time	Activity Details	Speaker/Expert	Junior Expert	Location
		Day 1: 03.02.2020		
08:00 am – 08:30 am	Breakfast			Pidilite Pavillion
08:00 am – 09:00 am	Registration			Marble Hall
09:00 am – 11:30 am	Inauguration, Welcome address, Introduction - Participants	Prof. A.B. Pandit, Vice Chancellor, ICT Mumbai Dr. Ratnesh Jain, UGC Assistant Professor, ICT Mumbai Dr.Hardeep Vora, Program Manager, BIRAC Dr. Shreerang Joshi, HOD, Department of Pharmaceutical Sciences and Technology Dr. A.W. Patwardhan, HOD, Department of Chemical Engineering Dr. Purnima Sharma, Managing Director, BCIL Dr. Narendra Chirmule, CEO, Symphonytech Biologics Dr. Dhananjay Patankar, Vice-President, Syngene Dr. Prajakta Dandekar Jain, ICT UGC Assistant Professor, ICTMumbai		KV Auditorium
11:30 am – 12:00 pm	Tea Break			Pidilite Pavillion
12:00 pm – 12:30 pm	Key note lecture: CQA in biologics	Dr. Jyoti lyer, Biocon		CE conference Room
12:30 pm – 01:00 pm	Keynote Lecture: Importance of "Critical Quality Attributes" in development of Therapeutic proteins	Dr. Venkat Yetaru, Lupin		CE conference Room
01:00 pm – 01:30 pm	Keynote lecture: Identification and Characterization of Critical Quality Attributes in Biologics: Biophysics to the rescue!	Dr. Amarnath Chatterjee, Wockhardt		CE conference Room
01:30 pm – 02:30 pm	Lunch Break			Pidilite Pavillion
02:30 pm – 03:00 pm	Lecture: Basics of Data analysis and interpretation of N-Glycan Analysis and Peptide mapping data obtained by LCMS	Dr. Babu Ponnusamy, Intas		Pharma conference room
03:00 pm – 06:00 pm	2D-LC Introductory Lecture and Experimental setup	Dr. Debdip Ghosh, Dr. Ashish Pargaonkar and Ms. Paramjeet Khandpur, Agilent Technologies	Ms. Amita Puranik, Mr. Lalit Khare	Pharma conference room and Pharm Biotech Lab
		Day 2: 04.02.2020		
08:30 am – 09:00 am	Breakfast			Pidilite Pavillion
09:00 am – 09:30 am	Lecture: Strategic applications of ion-mobility mass spectrometry for the characterization of Biopharmaceuticals	Dr. Jayaprakash Natarajan , Stelis Pharma		Pharma conference room
09:30 am – 01:30 pm	Glycan Analysis and LC-MS setup	Dr. Debdip Ghosh, Dr. Ashish Pargaonkar and Ms. Paramjeet Khandpur, Agilent Technologies	Ms. Amita Puranik, Mr. Lalit Khare	Pharma conference room and Pharm Biotech Lab
01:30 pm – 02:30 pm	Lunch			Pidilite Pavillion
02:30 pm – 06:00 pm	LC-MS Experiment: Intact and Peptide Mapping	Dr. Debdip Ghosh, Dr. Ashish Pargaonkar and Ms. Paramjeet Khandpur, Agilent Technologies	Ms. Amita Puranik, Mr. Lalit Khare	Pharma conference room and Pharm Biotech Lab

Time	Activity Details	Speaker/Expert	Junior Expert	Location	
		Day 3: 05.02.2020			
08:30 am – 09:00 am	Breakfast			Pidilite Pavillion	
09:00 am – 11:00 am	2D-LC Data Interpretation	Dr. Ashish Pargaonkar, Agilent Technologies Dr. Paramjeet Khandpur, Agilent Technologies	Ms. Amita Puranik, Mr. Lalit Khare	Pharma Conferece Room	
11:00 am – 11:30 am	Tea Break				
11:30 am – 01:30 pm	Capillary Electrophoresis: Lecture and Data Analysis	Dr. Prashant Dour and Mr. Sagar Amberkar, Sciex; Dr. Manish Singh and Mr. Hitesh Sharma, Bio-Techne	Ms. Amita Puranik, Ms. Nanda Rohra	Analytical Instruments Lab-II, CE & Pharma Conference Room	
01:30 pm – 02:30 pm	Lunch Break				
02:30 pm – 06:00 pm	Capillary Electrophoresis: Lecture and Data Analysis	Dr. Prashant Dour and Mr. Sagar Amberkar, Sciex; Dr. Manish Singh and Mr. Hitesh Sharma, Bio-Techne	Ms. Amita Puranik, Ms. Nanda Rohra	Analytical Instruments Lab-II, CE & Pharma Conference Room	
		Day 4: 06.02.2020			
08:30 am – 09:00 am	Breakfast			Pidilite Pavillion	
09:00 am – 09:30 am	Lecture: Protein Metrics Byos Host Cell Protein Workflow for Comprehensive Characterization of Host Cell Proteins in biopharmaceutical products	Dr. Dipak Thakur , ACRNS Analytical Technologies		Pharma Conference Room	
09:30 am – 10:00 am	Lecture: Controlling N-glycosylation in the manufacture of biosimilars	Dr. Narasimha Krishnakumar, Senior Lead Investigator, Syngene International Limited		Pharma Conference Room	
10:00 am – 10:30 am	Lecture: Sweet Talk on Glycan analysis for Antibody Characterization	Dr. Wang Tian Hua , Product Specialsit, Shimadzu		Pharma Conference Room	
10:30 am – 11:00 am	Tea Break		1		
11:00 am – 01:30 pm	Method Set-up for Cell Culture Profiling and Protein Characterization on Q-ToF LCMS	Dr. Wang Tian Hua, Dr. Deepti Bhandarkar , Shimadzu	Ms. Amita Puranik, Ms. Marianne Saldanha	Textile Department Lab	
01:30 pm – 02:30 pm	Lunch Break				
02:30 pm – 03:00 pm	Key note lecture: Biosimilar/ Biotherapeutic protein and peptide characterization by mass spectrometry	Prof. Utpal Tatu, IISC Bangalore		CE conference Room	
03:00 pm – 03:30 pm	Keynote lecture: Critical Quality Attributes for a therapuetic biologic	Dr. M.S. Ramakrishnan, Biocon		CE conference Room	
03:30 pm – 06:30 pm	MS Data Analysis Session	Dr. Wang Tian Hua , Dr. Deepti Bhandarkar , Shimadzu	Ms. Amita Puranik, Ms. Marianne Saldanha	Pharma Conference Room	

Time	Activity Details	Speaker/Expert	Junior Expert	Location	
		Day 5: 07.02.2020			
08:30 am – 09:00 am	Breakfast				
09:00 am – 11:30 am	Lecture: Impact and need of data analytics across lifecycle of biopharmaceuticals	Mr. Vaibhav Patil, Sartorius Stedim		KV Auditorium	
	Lecture: Design of Experiments	Mr. Vinay Babu, Biocon			
11:30 am – 12:00 pm	Keynote Lecture: Impact and Importance of Standards on Biotherapeutic Development	Dr. Kevin Carrick, Director, USP-RKV		KV Auditorium	
12:00 pm – 12:30 pm	Keynote Lecture: Data Integrity and Ethics for BiopharmaceuticalProduct Development	Dr. Francis Crawley, Executive Director,GCPA		KV Auditorium	
12:30 pm – 01:15 pm	Keynote Lecture: Innovative technologies for the expression of next generation biotherapeutics	Dr. Amita Goel, CEO, Cell theon Corporation		KV Auditorium	
01:15-02:00	Lunch Break				
02:00-02:30	Inauguration of Job Mela	Dr. Meenakshi Munshi, DBT, Govt. of India		Pidilite Pavillion	
02:30-04:30	HR Talks: Biopharmaceutical Industry			Pidilite Pavillion	