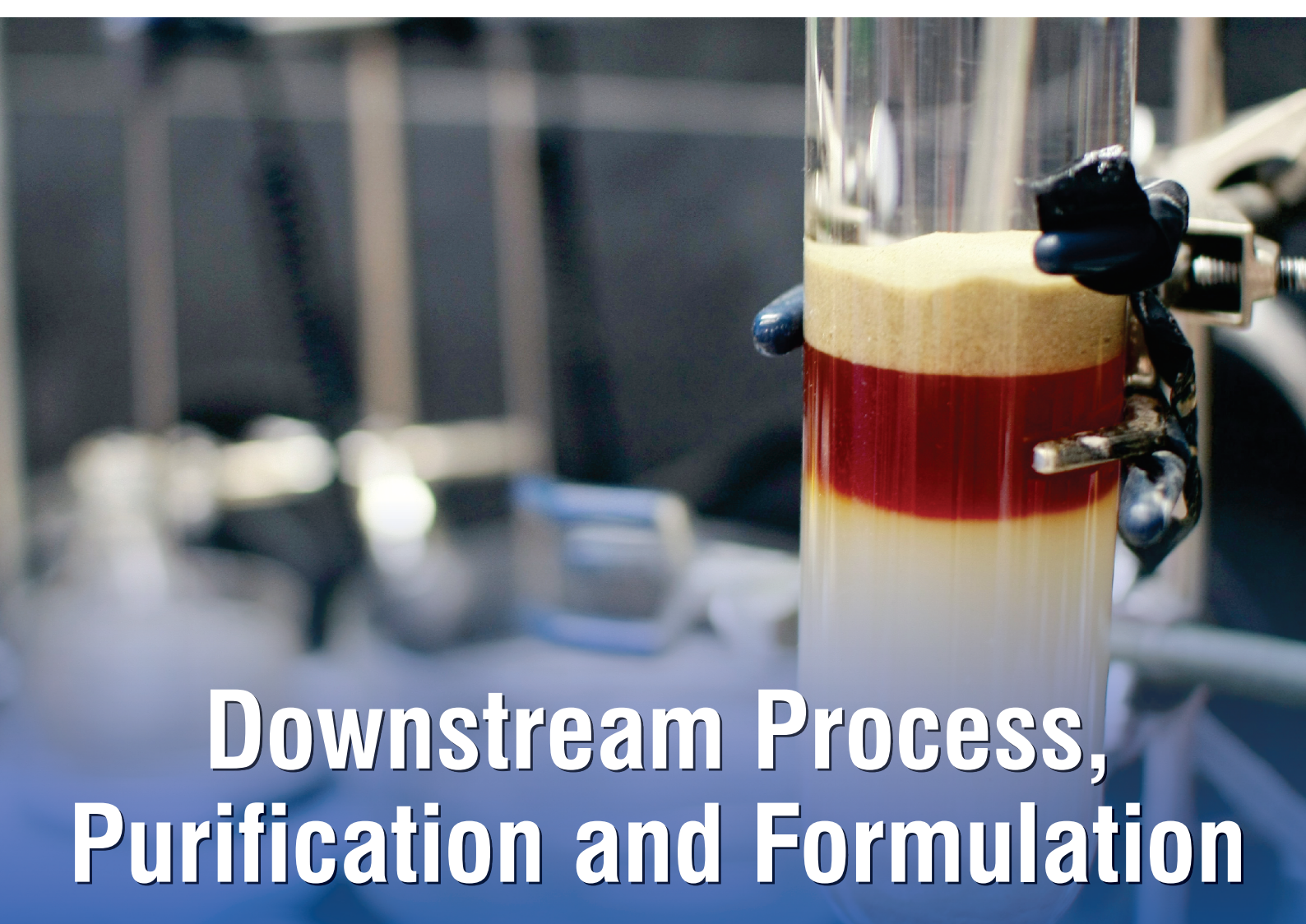




Downstream Process, Purification and Formulation

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

Downstream Processing is integral and cost-intensive part of biopharmaceutical development processes involving isolation and purification techniques. Filtration and chromatography are important steps towards isolation and purification of products of interest from cellular material in the biomanufacturing world. The downstream processing techniques affect the economics of manufacturing pharmaceuticals, biopharmaceuticals, vaccines, enzymes, nutraceuticals, etc. Biopharmaceutical industry is challenged by affordable mAb development and technological advances. The module is designed to introduce the principles of downstream techniques employed in the biopharmaceutical industry, its application and recent technological advances, knowledge of the operation, maintenance and troubleshooting of centrifuges, filtration systems, TFF systems and chromatography systems.

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	Topic	In-charge/Experts	In charge (Junior)	Location
Day 1: 03.02.2020					
08:00 am – 08:30 am	Registration				Marble Hall
08:30 am – 09:00 am	Breakfast				Pidilite Pavillion
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 – 12:45 pm	Keynote Lecture	Current Trends in Cell line development for production of affordable recombinant Protein	Dr. Sanjeev Gupta , IPCA		KV Auditorium
12:45 pm – 01:30 pm	Keynote Lecture	Process Development for Biosimilars: A strategic perspective	Dr. Sameer Kulkarni , Mumbai University		KV Auditorium
01:30 pm – 02:30 pm	Lunch Break				Pidilite Pavillion
02:30 pm – 03:00 pm	Lecture	Introduction to mAbs and Purification strategies	Batch 1- Mr. Bhargav Prasad and Dr. C. Sivapathasekaran , GE Fast Track Batch 2- Dr. Sachin Joshi , Dr. Nandkumar Thakre PharmNXT Biotech and Mr. Gaurav Nagar , Serum Institute		DBT
03:00 pm – 03:30 pm	Lecture	Column Packing			DBT
03:30 pm – 04:30 pm	Practical	Column Packing (XK16/10)		Akshita, Shailesh, Nazima, Mahesh T., Mr. Manjunath D.	DBT
04:30 pm – 04:45 pm	Tea Break				Pidilite Pavillion
04:45 pm – 05:30 pm	Practical	Column Evaluation	Batch 1- Mr. Bhargav Prasad and Dr. C. Sivapathasekaran , GE Fast Track Batch 2- Dr. Sachin Joshi , Dr. Nandkumar Thakre PharmNXT Biotech and Mr. Gaurav Nagar , Serum Institute	Akshita, Shailesh, Nazima, Mahesh T., Mr. Manjunath D.	DBT
05:30 pm – 06:00 pm	Lecture	Question and answers			DBT

Time	Activity Details	Topic	In-charge/Experts	In charge (Junior)	Location
Day 2: 04.02.2020					
08:30 am – 09:00 am		Breakfast			Pidilite Pavillion
09:00 am – 10:30 am	Lecture	Affinity chromatography	Batch 1- Mr. Bhargav Prasad and Dr. C. Sivapathasekaran , GE Fast Track Batch 2- Dr. Sachin Joshi , Dr. Nandkumar Thakre , PharmNXT Biotech and Mr. Gaurav Nagar , Serum Institute		DBT
10:30 am – 11:30 am	Practical	Affinity chromatography		Akshita, Shailesh, Nazima, Mahesh T., Mr.Manjunath D.	DBT
11:30 am – 11:45 pm	Tea Break				Pidilite Pavillion
12:30 pm – 01:00 pm	Lecture	Affinity chromatography	Dr. Radhika Kotwal , USV		DBT
01:00 pm – 01:30 pm	Practical	Analysis of chromatogram	Batch 1- Mr. Bhargav Prasad and Dr. C. Sivapathasekaran , GE Fast Track Batch 2- Dr. Sachin Joshi , Dr. Nandkumar Thakre , PharmNXT Biotech and Mr. Gaurav Nagar , Serum Institute		DBT
01:30 pm – 02:30 pm	Lunch Break				Pidilite Pavillion
02:30 pm – 03:00 pm	Lecture	Multimodal chromatography	Mr. Bhargav Prasad and Dr. C. Sivapathasekaran , GE Fast Track		DBT
03:00 pm – 04:00 pm	Practical	Multimodal chromatography		Akshita, Shailesh, Nazima, Mahesh T., Mr.Manjunath D.	DBT
04:00 pm – 04:30 pm	Lecture	Multimodal chromatography	Dr. Rahul Bhambure , NCL Pune		DBT
04:30 pm – 04:45 pm	Tea Break				Pidilite Pavillion
04:45 pm – 05:30 pm	Practical	Analytical and regulatory requirements	Mr. Bhargav Prasad and Dr. C. Sivapathasekaran , GE Fast Track	Akshita, Shailesh, Nazima, Mahesh T., Mr.Manjunath D.	DBT
05:30 pm – 06:00 pm	Q and A	Result and discussion			DBT
Day 3: 06.02.2020					
08:30 am – 09:00 am	Breakfast				Pidilite Pavillion
09:00 am – 11:00 am	Lecture	HIC- Introduction, basics, challenges and optimization	Dr. Sachin Joshi , PharmNXT Biotech		DBT
11:00 am – 11:30 am	Lecture		Dr. Dinesh Krishnan , GE		DBT
11:30 am – 11:45 am	Tea Break				Pidilite Pavillion
12:30 pm – 01:00 pm	Lecture	Ion exchange chromatography	Dr. Nandkumar Thakre , PharmNXT Biotech		DBT
01:00 pm – 02:00 pm	Practical	Cation and Anion exchange	Batch 1- Dr. Sandeep Kadam and Mr. Bhaskar Sharma , Bio-rad Batch 2- Dr. Nandkumar Thakare , PharmNXT Biotech and Gaurav Nagar , Serum Institute	Akshita, Shailesh, Nazima, Mahesh T., Mr.Manjunath D.	
02:00 pm – 03:00 pm	Lunch Break				Pidilite Pavillion
03:00 pm – 03:30 pm	Lecture	Ion exchange chromatography- Challenges and Opportunities	Batch 1- Dr. Sandeep Kadam and Mr. Bhaskar Sharma , Bio-rad Batch 2- Dr. Nandkumar Thakare , PharmNXT Biotech and Gaurav Nagar , Serum Institute		DBT
03:30 pm – 04:30 pm	Practical	Cation and Anion exchange		Akshita, Shailesh, Nazima, Mahesh T., Mr.Manjunath D.	
04:30 pm – 05:00 pm	Tea Break				Pidilite Pavillion

Time	Activity Details		Topic	In-charge/Experts	In charge (Junior)	Location
05:00 pm – 06:00 pm	Q and A		Result & discussion	Batch 1- Dr. Sandeep Kadam and Mr. Bhaskar Sharma , Bio-rad Batch 2- Dr. Nandkumar Thakare , PharmNXT Biotech and Gaurav Nagar , Serum Institute		DBT
Day 4: 06.02.2020						
08:30 am – 09:00 am	Breakfast					Pidilite Pavillion
09:00 am – 10:00 am	Lecture	TFF- Introduction, fundamentals & steps		Batch 1 & 2- Mr. C.V. Anand, Mr. Kiran Akhade and Mr. Vineet Bhatnagar , Pall		DBT
10:00 am – 11:00 am	Practical	TFF			Akshita, Shailesh, Nazima, Mahesh T., Mr.Manjunath D.	
11:00 am – 11:15 am	Tea Break					Pidilite Pavillion
11:15 am – 12:15 pm	Practical	TFF		Batch 1 & 2- Mr. C.V. Anand, Mr. Kiran Akhade and Mr. Vineet Bhatnagar , Pall	Akshita, Shailesh, Nazima, Mahesh T., Mr.Manjunath D.	DBT
12:15 pm – 12:45 pm	Q and A	Result and discussion				
12:45 pm – 01:30 pm	Lecture	VF- Basics of Viral Filtration & Virus validation				
01:30 pm – 02:30 pm	Lunch Break					Pidilite Pavillion
02:30 pm – 03:00 pm	Keynote Lecture	Manufacturing Biosimilar: Challenges and opportunities		Dr. Sandeep Majumdar , Intas		KV Auditorium
03:00 pm – 03:30 pm	Keynote Lecture	You get what you put in!! 5 essential elements for biosimilar development		Dr. Prateek Gupta , Intas		KV Auditorium
03:30 pm – 04:00 pm	Lecture	Virus clearance		Dr. Rahul Fadnis , Syngene		DBT
04:00 pm – 04:15 pm	Tea Break					Pidilite Pavillion
04:15 pm – 05:30 pm	Practical	Virus Filtration		Batch 1 & 2- Mr. C.V. Anand, Mr. Kiran Akhade and Mr. Vineet Bhatnagar , Pall	Akshita, Shailesh, Nazima, Mahesh T., Mr.Manjunath D.	DBT
05:30 pm – 06:00 pm	Q and A	Result and discussion				DBT
Day 5: 07.02.2020						
08:30 am – 09:00 am	Breakfast					Pidilite Pavillion
09:00 am –11:30 am		Lecture: Impact and need of data analytics across lifecycle of biopharmaceuticals		Mr. Vaibhav Patil , Sartorius		KV Auditorium
		Lecture: Design of Experiments		Mr. Vinay Babu , Biocon		
11:30 am – 12:00 pm		Lecture: Impact and Importance of Standards on Biotherapeutic Development		Dr. Kevin Carrick , Director, USP-RKV		KV Auditorium
12:00 pm – 12:30 pm		Lecture: Data Integrity and Ethics for Bio-pharmaceuticalProd-uct Development		Dr. Francis Crawley , Executive Director, GCPA, Europe		KV Auditorium
12:30 pm – 01:15 pm		Lecture : Innovative technologies for the expression of next generation biotherapeutics		Dr. Amita Goel , CEO Celltheon Corporation		KV Auditorium
01:15 pm – 02:00 pm	Lunch Break					Pidilite Pavillion
02:00 pm – 02:30 pm		Inauguration of Job Mela		Dr Meenakshi Munshi , DBT, Govt. of India		Pidilite Pavillion
02:30 pm – 04:30 pm	HR Talks by Biopharmaceutical Industry					Pidilite Pavillion