

Title: Hands-on-training program on DSP, Purification and Formulation		
Venue: Institute of Chemical Technology, Mumbai		
Dates: 3rd Feb – 7th Feb, 2020		
<p>Key Note Speaker Dr.Sanjay Tiwari , Director, R&D,Lupin Dr.Tushar Joglekar, General Manager, Head R&D , Cadila Pharmaceuticals* Dr. Anuj Goel, Biocon</p>		
<p>Speakers (Senior Expert) Dr.Sachin Joshi,Managing Director, PharmNXTBiotech Dr.Rahul Bhambure, NCL -Pune* Dr. Sandip Kadam, Bio Rad, Mumbai Dr. Sandeep Somani, Principal Scientist, Lupin* Mr.Gaurav Nagar,Senior Manager, Serum Institute of India Dr.Sarat Bimanadham, Technical Specialist SEA, PALL *Invited</p>		
<p>Junior Expert Nazima Shahzad, Intas Mahesh Tambe, Intas Akshita Angirishi, ICT Shailesh Bharti, ICT</p>		

Day-1: 3 rd Feb, 2020		
Sr. No.	Time	Activity
1	09:30 – 11:00Am	Classroom Session: Introduction to Principles and techniques in DSP (focus on protein A)
2	11:15Am – 1:00 pm	Lab Session: Introduction to Hardware & brief overview of AKTA system, column packing demo and mobile phase preparation
3	2:00 pm – 6:00 pm	Lab Session: column performance evaluation and sample purification by Protein A demo
Day-2: 4 th Feb, 2020		
1	9:30Am – 11:00 Am	Classroom session: Introduction to CEX chromatography for purification
2	11:15 Am – 1:00 pm	Lab Session: Protein A purification evaluation by Protein-A HPLC
3	2:00 – 6:00 pm	Lab Session: Demo on column un-packing and re-packing with CEX resin, mobile phase preparation and column performance evaluation

Day-3: 5 th Feb, 2020		
1	09:30Am – 11:00 Am	Classroom Session: Role of HCPs and evaluation of removal of HCP by ELISA
2	11:15Am– 6:00 pm	Lab Session: HCP ELISA
Day-4: 6 th Feb		
1	9:30Am – 11:00 Am	Classroom Session: Introduction to viral clearance by filtration
2	11:15Am - 1:00pm	Lab Session: Filter handling demo – handling of syringe filters, membrane filters etc.
3	2:00pm – 6:00 pm	Lab + Classroom Session: Role of TFF in conc. diafiltration and demo
Day-5: 7 th Feb		
1	9:30 Am– 11:00Am	Classroom Session: Summary of all purification techniques performed and evaluation of purification
2	11:15Am – 1:00Pm	Classroom Session: Advances in continuous bioprocessing
3	2:00pm - 4:30pm	Lab/Demo Session: Demo and scale up