



**Detailed Conference Program
for
8th International Bioprocessing India Conference**

*Recent Advancements & Applications in Bioprocessing for
Biosimilar, Vaccines, and Bioenergy*

**16th to 18th December, 2022
CSIR-National Chemical Laboratory, Pune**

BPI 2022 Conference Program, Venue: CSIR-NCL, Pune

Day 1, Friday, December 16, 2022			
9:00-11:00	Breakfast and Registration		
11:00-12:00	Inauguration, Welcome Address (Venue: NCL, Auditorium) Chief Guest: Dr. Cyrus Karkaria, President. Lupin Biotechnology Division, Pune		
12:00-13:30	Plenary Session (Venue: NCL, Auditorium) Prof. Abraham Lenhoff, University of Delaware, USA, and Dr. Umesh Shaligram, Serum Institute of India, Pune		
13:30-14:00	Conference Lunch		
14:00-16:00	Session 1 (NCL, Auditorium)	Session 2 (Main Building, 2 nd Floor Lecture Hall)	Session 3 (SSBLT-PAM Building)
	Upstream Processing for Recombinant Protein Therapeutics	Biophysical and Analytical Characterization Technologies I	Biocatalyst and Biotransformation
	Session Moderator: Dr. Mugdha Gadgil, CSIR-NCL, Pune	Session Moderator: Dr. Mahesh Kulkarni, CSIR-NCL, Pune	Session Moderator: Dr. Syed Dastager, CSIR-NCL, Pune
	Speakers: Dr. Meiyappan Lakshmanan, A*Star Bioprocessing Technology Institute, Singapore Dr. Dakshesh Mehta, MJ Biopharma, Pune Dr. Sridhar Kottakota Laurus Bio, Bengaluru Mr. Rajesh Kumar, ThermoFisher, India	Speakers: Dr. Sourav Majumdar, Serum Institute of India, Pune Dr. Saji Menon, NanoTemper Technologies, India Mr. Sunil B Lakhmapure, Agilent Technologies, India Dr. Aswani Kancharla, ICT, Mumbai	Speakers: Dr. Rajeev Sukumaran, NIIST, Thiruvananthapuram Dr. V. Koteswara Rao, CSIR-NCL, Pune Mr. Rajiv Lochan, Dyna Biotech, Pune Dr. Mahesh Patil, CIAB, Mohali Mr. Manoj Dev, ICT Mumbai
16:00-17:00	Tea Break; Poster Session- I Session Moderator: I. Dr. Sumit Singh, IIT BHU, Varanasi II. Dr. Rajender Jena, S.I.I, Pune, Pune. III. Dr. Syed Dastager, CSIR-NCL, Pune		
17:00-19:00	Session 4 (NCL, Auditorium)	Session 5 (Main Building, 2 nd Floor Lecture Hall)	Session 6 (SSBLT-PAM Building)
	Downstream Processing for Recombinant Protein Therapeutics-I	Advanced Biomanufacturing Capabilities: Next-Generation Technology Solutions	Synthetic Biology and Metabolic Engineering
	Session Moderator: Prof. M. A. Vijayalakshmi, VIT Vellore, Tamil Nadu	Session Moderator: Mr. Sachin Joshi, Managing Director at PharmaNXT Biotech, Pune	Session Moderator: Dr. Anu Raghunathan, CSIR-NCL, Pune
	Speakers: Prof. Anurag Rathore, IIT Delhi Prof. Abraham Lenhoff, University of Delaware, USA Dr. Sandip Kadam, ThermoFisher, India Ms. Nitika Nitika, IIT Delhi	Speakers: Dr. Shilpa Gadgil, Enzene Biosciences Limited, Pune Dr. Ravindra Patel, OmniBRx Biotechnologies Pvt. Ltd., India Mr. Sachin Joshi, PharmaNXT, India Dr. Keerthiveena B, IIT Delhi	Speakers: Dr. Shantanu Dasgupta, Reliance Industries, Mumbai Dr. Sangram Bagh, SINP, Kolkatta Dr. Ashish Misra, IIT Delhi Mr. Sharath S, IIT Madras
19:00-20:00	Biotech Startup Stories I (NCL, Auditorium) Session Moderator: Dr. Anu Raghunathan, CSIR-NCL, Pune Dr. Jayant Khandare, Managing Director and Chief Scientific Officer Actorius Innovations and Research Pvt Ltd.	Biotech Startup Stories II (NCL, Auditorium) Session Moderator: Dr. Anu Raghunathan, CSIR-NCL, Pune Dr. Anuya Nisal, Founder, Serigen Mediproducts, Pune	
20:00-21:00	Conference Dinner		

BPI 2022 Conference Program, Venue: CSIR-NCL, Pune

Day 2, Saturday, December 17, 2022

08:00-08:45	Breakfast		
	Session 7 (NCL, Auditorium)	Session 8 (Main Building, 2nd Floor Lecture Hall)	Session 9 (SSBLT-PAM Building)
	Upstream Processing for Vaccines	Protein Engineering	Biosensing and Diagnostics
08:45-10:45	Session Moderator: Dr. Rajender Jena, Serum Institute of India, Pune	Session Moderator: Dr. D. K. Sahoo, CSIR-IMTECH, Chandigarh	Session Moderator: Dr. Kali Kishore, VIT Vellore, Tamil Nadu
	Speakers: Dr. Sambhaji Pisal, Serum Institute of India, Pune Dr. Vinod Patil, Dyna Biotech, Pune Dr. Vasudevan Murlidharan, Cytiva, India Dr. Rahul Joshi, HiMedia Laboratories Pvt. Ltd., Mumbai	Speakers: Dr. Shardul Salunke, USV, Mumbai Dr. Arindam Chakraborty, Enzene Biosciences Limited, Pune Dr. Vijay Tejwani, Biosciences Limited, Pune Dr. Anthony Addlagatta, IICT, Hyderabad	Speakers: Dr. Kunal Shukla, Advy Chemical Pvt. Ltd., Mumbai Dr. Dhananjay, Achiralabs, Bengaluru Dr. Kali Kishore, VIT Vellore, Tamil Nadu Dr. Shrikant Pawar, Mylab, Pune Dr. Priti Singh, CSIR-NCL, Pune
10:45-11:00	Tea Break		
	Session 10 (NCL, Auditorium)	Session 11 (Main Building, 2nd Floor Lecture Hall)	Session 12 (SSBLT-PAM Building)
	Scale Up, Tech. Transfer & Manufacturing of Biopharmaceuticals	Downstream Processing for Recombinant Protein Therapeutics-II	Bioenergy
11:00-13:00	Session Moderator: Dr. Anurag Rathore, IIT, Delhi	Session Moderator: Dr. Sandip Kadam, ThermoFisher, India	Session Moderator: Dr. Mahesh Dharne, CSIR-NCL, Pune
	Speakers: Dr. Sanjay Tiwari, Lupin Ltd. Biotech Division, Pune Mr. Vivek Farkade, Bharat Serum and Vaccines Limited, Mumbai Mr. Prashant Chawla, Biological E. Limited, Hyderabad Mr. Jagadish Bennale, Beckman Coulter Life Sciences, Mumbai	Speakers: Dr. Harish Shandilya, Enzene Biosciences Limited, Pune* Dr. Sandeep Kale, QPAT, Pune Mr. Manjunath Dudhanikar, MR Sanghavi & Co (JNC), Mumbai Mr. Sunil Rana, CSIR-NCL, Pune	Speakers: Dr. Prashant Dhakephalkar, ARI, Pune Prof. Sunil K. Maity, IIT Hyderabad Dr. Venkata Mohan, IICT, Hyderabad Dr. Nuriel Pezarkar, Noble Exchange, Pune
13:00-14:00	Conference lunch		
14:00-15:00	Plenary Session (NCL, Auditorium) Session Moderator: Dr. Mahesh Dharne, CSIR-NCL, Pune Talk by, Prof. Justin O'Grady, Senior Director Translational Research- OXFORD NANOPORE TECHNOLOGIES		
	Session 13 (NCL, Auditorium)	Session 14 (Main Building, 2nd Floor Lecture Hall)	Session 15 (SSBLT-PAM Building)
	Development and Manufacturing of Gene Therapy and Viral Vector Products	Biophysical and Analytical Characterization Technologies II	Bioprocessing For Nutraceuticals
15:00-17:00	Session Moderator: Dr. Sandeep Kale, QPAT Tech Pune	Session Moderator: Dr. Sumit Singh, IIT BHU, Varanasi	Session Moderator: Dr. S. Sethilmurugan, IIT Guwahati
	Speakers: Dr. Janet McPherson, Cytiva, Australia Mr. Kiran Akhade, Pall Corporation, India Mr. Pankaj Salvi, Pall Corporation, India	Speakers: Dr. Rohan Shah, Sciex, India Dr. Smita Kale, Venture Center, Pune Dr. Veena Raiker, Enzene Biosciences Limited, Pune Dr. Srishti Joshi, IIT Delhi Ms. Rupali Kumthekar, CSIR-NCL, Pune	Speakers: Dr. Asha Kembhavi, Christen-Hansen, Pune Dr. Ashok Dubey, TATA Chemicals, Pune Dr. Vivek Choughule, Döhler, Pune Dr. Saurish Bhattacharya, CSIR-CSMCRI, Bhavnagar Dr. Raghavendra Gaikawai, Hi-Tech Bio, Pune
17:00-18:00	Tea Break & Poster Session II Session Moderator: Dr. James Gomes, IIT Delhi, II. Dr. D. K. Sahoo, CSIR-IMTECH, Chandigarh, III. Dr. Mahesh Dharne, CSIR-NCL, Pune		
17:00 – 20:00	Session Coordinator: Ms. Dhanashree Mulge, Dr. D. M. Thakar Visit: Open House at Pall Technology and Knowledge Center (Only for Selected Candidates)		

18:00-19:00	<p align="center"> Workshop I. (NCL, Auditorium) Session Moderator: Dr. Syed Dastager, CSIR-NCL, Pune High Throughput Automation Technologies to Accelerate Your Science/Research, Mr. Srinivas Radhakrishnan and Mr. Jagadish Bennale, Beckman Coulter Life sciences, India </p>	<p align="center"> Workshop II. (SSBLT-PAM Building) Session Moderator: Dr. Mahesh Kulkarni, CSIR-NCL, Pune Thermal and Colloidal Stability Characterization of Candidate Molecules Using Prometheus Panta, Dr. Saji Menon, NanoTemper Technologies, India </p>	<p align="center"> Bioprocessing India Society EC/WC meeting (Biochemical Sciences Division Lecture Hall) </p>
19:00-20:00	<p align="center"> Conference Dinner </p>		

BPI 2022 Conference Program, Venue: CSIR-NCL, Pune

Day 3, Sunday, December 18, 2022			
08:00-08:45	Breakfast		
08:45-10:45	Session 16 (NCL, Auditorium)	Session 17 (Main Building, 2nd Floor Lecture Hall)	Session 18 (SSBLT-PAM Building)
	In-silico and Mechanistic Modeling for Bioprocesses	Drug Delivery and Protein Formulations	Bioprocessing for Natural Medicinal Products
	Session Moderator: Dr. James Gomes, IIT Delhi	Session Moderator: Dr. Vaibhav Deokar, Lupin Ltd.	Session Moderator: Dr. Smita Srivastava, IIT Madras
	Speakers: Dr. Vaibhav Patil, Sartorius, India Dr. Ganesh T. Sivanathan, Lupin Biotech, Pune Mr. Ravi Khare, Symphony Tech Pvt Ltd., Pune Mr. Vinay Panday, Biocon Biologic, Bengaluru Mr. Mohd Nadeem, IIT Bombay	Speakers: Dr. Hendrick Loei, Halo Labs, Singapore Dr. Smita Rajput, Merck Life Science Pvt. Ltd., India Dr. Vaibhav Deokar, Lupin Biotech, Pune	Speakers: Prof. Kalyan Gayen, NIT, Agartala Dr. Smita Srivastava, IIT Madras Mr. Ashish Kumar, CSIR-NCL, Pune Ms. Nandita Srivastava, IMTECH, Chandigarh
10:45-11:00	Tea Break		
11:00-13:00	Session 19 (NCL, Auditorium)	Session 20 (Main Building, 2nd Floor Lecture Hall)	Session 21 (SSBLT-PAM Building)
	Protein Unfolding, Refolding, and Aggregation	Upstream and Downstream Processing for Recombinant Protein Therapeutics (Students Session)	Stem Cell and Gene therapy
	Session Moderator: Dr. Santosh Kumar Jha, CSIR-NCL, Pune	Session Moderator: Dr. Mahesh Dharne, CSIR-NCL, Pune	Session Moderator: Dr. Rahul Purwar, IIT Mumbai
	Speakers: Dr. Santosh Kumar Jha, CSIR-NCL, Pune Dr. Kanti Mihooliya, IIT Delhi Ms. Rashmi Sharma, IIT Delhi Mr. Santosh G. Ughade, CSIR-NCL, Pune Ms. Anupa, IIT Delhi	Speakers: Ms. Anuja Prabhu, CSIR-NCL, Pune Ms. Rucha Patil, IIT Delhi Mr. Sami Ullah Bhat, IIT Delhi Ms. Priya Mishra, IIT Bombay Mr. Pavan Allampalli, IIT Guwahati Dr. Sambit Sarkar, IIT Bombay	Speakers: Dr. Mohan Wani, Director, NCCS, Pune Dr. Rahul Purwar, IIT Bombay Dr. Likhesh Sharma, Cytiva, India Dr. Ganesh Ingawale, Symbiosis International University, Pune
13:00-14:00	Valedictory and Award Function (NCL, Auditorium)		
14:00-16:00	Conference Lunch		

*Confirmation pending



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December 16-18, 2022

CSIR-NCL, Pune

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Day 1: 16th December 2022

Sr. No.	Speaker	Time slot	Title of talk
Session 1: Upstream Processing for Recombinant Protein Therapeutics (Session Moderator: Dr. Mugdha Gadgil, CSIR-NCL, Pune) (At NCL, Auditorium)			
1	Dr. Meiyappan Lakshmanan	14:00-14:25	Integrative multi-omics data driven approaches guide next generation CHO cell line and process development
2	Dr. Dakshesh Mehta MJ Biopharma	14:30-14:55	Recent advances in use of <i>E. coli</i> as host for manufacturing of biotherapeutics
3	Dr. Shridhar Kottakota, Laurus Bio, Bengaluru	15:00-15:25	Upstream Processing for Recombinant Protein Therapeutics: Continuous upstream processing for maximum productivity
4	Mr. Rajesh Kumar, ThermoFisher	15:30-15:55	Upstream CHO cell culture basal medium and feed: Monoclonal Antibodies and Recombinant Proteins
Session 2: Biophysical and Analytical Characterization Technologies I (Session Moderator: Dr. Mahesh Kulkarni, CSIR-NCL, Pune) (At Main Building, 2 nd Floor Lecture Hall)			
5	Dr. Sourav Majumdar, Serum Institute of India	14:00-14:25	Impact of physicochemical and biochemical characterization on bioprocess development for manufacturing of recombinant bio therapeutics protein
6	Dr. Saji Menon, NanoTemper	14:30-14:55	Multiparameter Stability Characterization of Early-Stage Formulations in Characterization of Biologics
7	Mr. Sunil Lakhmapure, Agilent Technologies	15:00-15:25	Sialic Acid Analysis made easy!
8	Dr. Aswani Kancherla, ICT Mumbai	15:30-15:55	Solution NMR methods for bio-similarity assessment of peptide therapeutics
Session 3: Biocatalyst and Biotransformation (Session Moderator: Dr. Syed Dastager, CSIR-NCL, Pune) (At SSBLT-PAM Building)			
9	Dr. Rajeev Sukumaran NIIST, TVM	14:00-14:25	
10	Dr. V Koteswara Rao, NCL, Pune	14:30-14:55	Development of Biocatalytic Process for the Production of 6-Aminopenicillanic Acid Using Penicillin V Acylase for Synthetic Antibiotics
11	Dr. Rajiv Lochan, Dyna Biotech	15:00-15:25	Bioenergy: Fuel for India & SV BIOTECH development
12	Dr. Mahesh Patil, CIAB	15:30-15:45	Biocatalytic Synthesis of Industrially Important Bioplastic Monomers using Multi-enzymatic Cascades
13	Mr. Manoj Dev, ICT	15:45-15:55	L-Asparaginase from an acrylamide degrader, <i>Cupriavidus oxalaticus</i> ICTDB921: Production, purification, and characterization
Poster Session I		16:00-17:00	Session Moderator: Dr. Sumit Singh, Dr. Rajendra Jena and Dr. Syed Dastager (Along with Tea Break)
Session 4: Downstream Processing for Recombinant Protein Therapeutics-I (Session Moderator: Prof. M. A. Vijayalakshmi, VIT Vellore, Tamil Nadu. (At NCL, Auditorium)			
14	Prof. Anurag Rathore IIT Delhi	17:00-17:25	Role of Spectroscopy for Real Time Monitoring and Control of Continuous Bioprocesses
15	Prof. Abraham Lenhoff UDEL	17:30-17:55	
16	Dr. Sandip Kadam	18:00-18:25	Platform approach for efficient AAV purification
17	Ms. Nikita Nikita	18:30-18:55	Real time feedback and feedforward control of chromatographic loading and in-line concentration of monoclonal antibody fragment

Session 5: Advanced Biomanufacturing Capabilities: Next-Generation Technology (Session Moderator: Mr. Sachin Joshi, Managing Director at PharmaNXT Biotech, Pune) (At Main Building, 2 nd Floor Lecture Hall)			
18	Dr. Shilpa Gadgil, Enzene Biosciences Ltd.	17:00-17:25	
19	Dr. Ravindra Patel OmnBRX	17:30-17:55	Unlocking vaccine & viral vector manufacturing potential with novel bioprocessing technology
20	Mr. Sachin Joshi PharmaNXT	18:00-18:25	Advancements & Adoption of Single Use Technologies in Biologics Manufacturing – Resolving challenges through localization
21	Dr. Keerthiveena B, IIT Delhi	18:30-18:55	Deep Learning based pre-processing and peak identification in Liquid Chromatography
Session 6: Synthetic Biology and Metabolic Engineering (Session Moderator: Dr. Anu Raghunathan, CSIR-NCL Pune) (At SSBLT-PAM Building)			
22	Dr. Shantanu Dasgupta, Reliance Industries	17:00-17:25	Sustainable production of food, feed, advance biomaterials, and energy through Green Synthetic Biology
23	Dr. Sangram Bagh, SINP	17:30-17:55	Biocomputers with Molecular Engineered Bacteria and its applications
24	Dr. Ashish Mishra, IIT Delhi	18:00-18:25	Metabolic engineering of <i>Zymomonas mobilis</i> for lactic acid production
25	Mr. Sharath S, IIT Madars	18:30-18:55	Genetic and process strategies for the production of specific Molecular weight Hyaluronic acid
Biotech Start-up Stories 1 (Session Moderator: Dr. Anu Raghunathan, CSIR-NCL Pune) (At NCL Auditorium)			
26	Dr. Jayant Khandare , Managing Director, Actorius Innovations and Research Pvt Ltd.	19:00- 19:30	OncoDiscover Liquid Biopsy Technology: Translation from Lab to Clinic
Biotech Start-up Stories 2 (Session Moderator: Dr. Anu Raghunathan, CSIR-NCL Pune) (At NCL Auditorium)			
27	Dr. Anuya Nisal , Founder, Serigen Mediproducts, Pune	19:30- 20:00	Silk cocoons to medical devices: unravelling the story

Day 2 (17th December 2022)

**Session 7: Upstream Processing for Vaccines (Session Moderator: Dr. Rajender Jena, Serum Institute of India, Pune)
(NCL Auditorium)**

29	Dr. Sambhaji Pisal, Serum Institute of India	08:45-09:10	Case studies in Upstream processing of Vaccine antigens and Monoclonal Antibodies
30	Dr. Vinod Patil, Dyna Biotech	09:15-09:40	Bioprocessing, fermentation technology & developments at Dyna biotech
31	Dr. Vasudev Muralidharan, Cytiva	09:45-10:10	Upstream processing for Vaccines
32	Dr. Rahul Joshi, HiMedia Laboratories Pvt. Ltd.	10:15-10:40	Can current available media increase vaccine productivity?

**Session 8: Protein Engineering (Session Moderator: Dr. D. K. Sahoo, CSIR-IMTECH, Chandigarh)
(Main Building, 2nd Floor Lecture Hall)**

33	Dr. Shardul Salunke, USV	08:45-09:10	Next generation biosimilars: Bispecifics and ADCs
34	Dr. Arindam Chakraborty, Enzene Bioscience Limited	09:10-09:35	
35	Dr. Anthony Addlagatta, IICT	09:35-10:00	Development of Enzymes for Diels-Alder Reaction: Protein Engineering, Biochemical and Structural Approach
36	Dr. Vijay Tejwani, Enzene Biosciences Limited, Pune	10:00-10:25	PTSelect™: A novel post-transcriptional technology that enables rapid establishment of stable CHO cell lines

Session 9: Biosensing and Diagnostics (Session Moderator: Dr. Kali Kishore, VIT Vellore, Tamil Nadu) (At SSBLT-PAM Building)

38	Dr. Kunal Shukla, Advy Chemical Pvt Ltd. Mumbai	08:45-09:10	Life Cycle of a Novel IVD Product: A Case Study
39	Dr. Kali Kishor, VIT Vellore	09:10-09:35	Development of an efficient vitamin D3 detection strip
40	Dr. Dhananjay, Achira Lab, Bengaluru	09:35-10:00	
41	Dr. Shrikant Pawar, Mylab	10:00-10:25	
42	Dr. Priti Singh, CSIR-NCL	10:25-10:45	Electrochemical Biosensors for the detection of Cardio Vascular Diseases

Tea Break from 10:45 to 11:00

Session 10: Scale Up, Tech, Transfer & Manufacturing of Biopharmaceuticals (Session Moderator: Dr. Anurag Rathore, IIT, Delhi) (At NCL Auditorium)			
43	Dr. Sanjay Tiwari, Lupin Ltd	11:00-11:25	CHO / <i>E. coli</i> : From shake flask to tonnage scale
44	Mr. Vivek Farkade, Bharat Serum and Vaccines Limited	11:30-11:55	Resolving Manufacturing Challenges During Scale Up and Technology Transfer – A Case Study
45	Mr. Prashant Chawla, Biological E. Limited	12:00-12:25	Scale Up, Tech. Transfer & Manufacturing of Biopharmaceuticals
46	Mr. Jagadish Bennale, Beckman Coulter Life Sciences	12:30-12:55	Biolector XT High Throughput Microcultivation platform for efficient Screening, Optimization and Scale-up in Bacteria, Yeast, Fungi, Insect Cells, Plant cell suspension and Algal applications
Session 11: Downstream Processing for Recombinant Protein Therapeutics-II (Session Moderator: Dr. Sandip Kadam, ThermoFisher, India) (At Main Building, 2 nd Floor Lecture Hall)			
47	Dr. Harish Shandilya, Enzene Biosciences Limited*	11:00-11:25	
48	Dr. Sandeep Kale, QPAT	11:30-11:55	
49	Mr. Manjunath Dudhanikar, MR Sanghavi & Co. (JNC)	12:00-12:25	
50	Mr. Sunil Rana, CSIR-NCL, Pune	12:30-12:55	Chromatography assisted refolding of recombinant therapeutic proteins expressed in <i>E. coli</i>
Session 12: Bioenergy (Session Moderator: Dr. Mahesh Dharne, CSIR-NCL, Pune) (At SSBLT-PAM Building)			
51	Dr. Prashant Dhakephalkar, ARI, Pune	11:00-11:25	
52	Prof. Sunil K. Maity, IIT Hyderabad	11:30-11:55	A Techno-economic analysis for production of lactic acid from Bread waste using Pinch technology
53	Dr. Nurial Pezarkar, Noble Exchange, Pune	12:00-12:25	Resource Autonomy / Energy Security from Food Waste
54	Dr. Venkata Mohan, IICT	12:30-12:55	Waste Fed Biorefineries – Progress and Prospects
Conference Lunch (13:00-14:00)			
Plenary Session		14:00-15:00	Talk by Prof. Justin O'Grady, Senior Director Translational Research-Oxford Nanopore Technologies, UK
Session 13: Development and Manufacturing of Gene Therapy and Viral Vector Products (Session Moderator: Dr. Sandeep Kale, QPAT Tech Pune) (At NCL Auditorium)			
55	Dr. Janet McPherson	15:00-15:30	Development and Manufacturing of Gene Therapy and Viral Vector Products
56	Mr. Kiran Akhade	15:30-16:00	Scalable Filtration of Recombinant Adeno-Associated Viral (rAAV) and Lentiviral (LV) Vectors
57	Mr. Pankaj Salvi	16:00-16:30	Upstream Bioprocessing in Gene Therapy

Session 14: Biophysical and Analytical Characterization Technologies II (Session Moderator: Dr. Sumit Singh, IIT BHU, Varanasi) (At Main Building, 2nd Floor Lecture Hall)			
58	Dr. Rohan Shah	15:00-15:25	Harnessing SCIEX solution for Biotherapeutics: <i>Simple Solutions to Complex Workflows</i>
59	Dr. Smita Kale	15:25-15:50	Protein Characterization Services to Support the Development of Biopharmaceutical Products
60	Dr. Sumit Singh	15:50-16:15	Activity loss due to methionine oxidation in GCSF: mechanism and control
61	Dr. Srishti Joshi	16:15-16:40	Multi Attribute Workflows for Analytical Characterization of Biotherapeutics
62	Ms. Rupali Kumthekar	16:40-16:55	Mapping of disulfide linkages using CID based mass spectroscopic approach for peptibody: A Fc-fusion proteins
Session 15: Bioprocessing for Nutraceuticals (Session Moderator: Dr. S. Sethilmurugan, IIT Guwahati) (At SSBLT-PAM Building)			
63	Asha Kembhavi, Christen-Hansen, Pune	15:00-15:25	Bioprocessing of lactic acid bacteria
64	Ashok Dubey TATA Chemicals, Pune	15:25-15:50	Landscaping of Indian gut microbiota and development of prebiotics for human health
65	Dr. Vivek Choughule, Dohler, Pune	15:50-16:15	Bioprocessing technology for Food Industry
67	Dr. Saurish Bhattacharya	16:15-16:40	Sustainable process for microalgal based nutraceuticals through biorefinery model
68	Dr. Raghavendra Gaikawari, Hi-Tech Bio. Pune	16:40-17:00	
Poster Session II		17:00-18:00	Session Moderator: Dr. James Gomes, Dr. D K Sahoo, Dr. Mahesh Dharne (Along with Tea Break)
Workshop I (NCL, Auditorium)			
69	Mr. Srinivas Radhakrishnan and Mr. Jagadish Bennale	18:00-19:00	High Throughput Automation Technologies to Accelerate Research
Workshop II (PAM, Building)			
70	Mr. Saji Menon	18:00-19:00	Multiparameter Stability Characterization of Early-Stage Formulations in Characterization of Biologics

Day 3 (18th December 2022)			
Session 16: In-silico and Mechanistic Modelling for Bioprocesses (Session Moderator: Dr. James Gomes, IIT Delhi) (At NCL, Auditorium)			
71	Dr. Vaibhav Patil, Sartorius	08:45-09:10	Leveraging Hybrid modelling in Bioprocess Development: Challenges and Opportunities
72	Dr. Ganesh Sivanathan, Lupin	09:10-09:30	Purification of Closely Related Impurities using Multimodal Chromatography Resins – A Model-Based Approach
73	Mr. Ravi Khare, Symphony Tech	09:35-09:50	
74	Mr. Vinay Pandey, Biocon Biologics	09:50-10:10	
75	Mr. Mohd Nadeem, IIT Bombay	10:15-10:40	Mechanistic modelling and stimulation of radial chromatography
Session 17: Drug Delivery and Protein Formulations (Session Moderator: Dr. Vaibhav Deokar, Lupin Ltd) (At Main Building, 2 nd Floor Lecture Hall)			
76	Dr. Hendrick Loei, Halo Labs	08:45-09:15	Is That My Product Aggregate? How Subvisible Particle Identification Can Improve Your Formulations Development Workflow
77	Dr. Smita Rajput, Merck Life Science Pvt. Ltd.	09:15-09:45	Improving Protein Purification: Application of Excipients in Downstream Processing
78	Dr. Vaibhav Deokar, Lupin Biotech	09:45-10:15	Comparison of strategies in the development and manufacturing of low viscosity, ultra-high concentration formulation for IgG1 antibody
Session 18: Bioprocessing for Natural Medical Products (Session Moderator: Dr. Smita Srivastava, IIT Madras) (At SSBLT-PAM Building)			
79	Prof. Kalyan Gayen, NIT	08:45-09:15	Bioprocessing of natural colorant (Chlorophyll) from isolated microalgae
80	Dr. Smita Shrivastava, IIT Madras	09:15-09:45	
81	Mr. Ashish Kumar, CSIR-NCL	09:45-10:15	CRISPR-cas9 mediated generation of lanosterol deficient yeast strain for the efficient production of triterpene related products
82	Ms. Nandita Srivastava, IMTECH	10:15-10:45	Polysaccharide-based self-assembled smart hydrogel for in-vitro delivery sco-encapsulated probiotics and folic acid
Session 19: Protein Unfolding, Refolding and Aggregation (Session Moderator: Dr. Santosh Kumar Jha, CSIR-NCL, Pune) (At NCL Auditorium)			
83	Dr. Santosh Kumar Jha, CSIR-NCL	11:00-11:20	Mechanistic insights into the stress-induced aggregation of TDP-43 in ALS
84	Dr Kranti Mihooliya, IIT Delhi	11:25-11:45	Optimization of process intermediates conditions to enhance stability and tackling hold-ups during purification: L-Asparaginase as a case study
85	Ms. Rashmi Sharma, IIT Delhi	11:50-12:10	Optimization of the in-vitro refolding of biotherapeutic Fab Ranibizumab
86	Mr. Santosh G Ughade, CSIR_NCL	12:15-12:35	Cloning, Expression and Refolding of Recombinant Therapeutic Peptide
87	Ms. Anupa Ahuja, IIT Delhi	12:40-12:55	Enablers of continuous processing of biotherapeutic products
Session 20: Upstream and Downstream Processing for Recombinant Therapeutics (Students Sessions) (Session Moderator: Dr. Mahesh Dharne, CSIR-NCL, Pune) (At Main Building, 2nd Floor Lecture Hall)			
88	Ms. Anuja Prabhu	11:00-11:15	Engineering nucleotide sugar synthesis pathways for independent and simultaneous modulation of N-glycan galactosylation and fucosylation in CHO cells
89	Ms. Rucha Patil	11:15-11:30	Optimization of process parameters for enhanced production of ranibizumab in E. coli
90	Ms. Sami Ullah Bhat	11:30-11:45	A real time feeding control strategy for enhanced recombinant protein production and acetate control in E. coli using near infrared spectroscopy (NIRS) as a PAT tool
91	Ms. Priya Mishra	11:45-12:00	Development of a recombinant cell line with increased secretory capacity by Tunicamycin Adaptation
92	Mr. Pawan Allampalli	12:00-12:15	Metabolic heat rate based soft sensors for real-time estimation of specific growth rates and implication of process control strategies for the production of human interferon alpha 2b
93	Dr. Sambit Sarkar	12:15-12:30	Downstream processing of chlorophylls, proteins and carbohydrate from microalgae biomass using three phase partitioning

Session 21: Stem Cell and Gene Therapy (Session Moderator: Dr. Rahul Purwar, IIT Mumbai)**(At SSBLT-PAM Building)**

95	Dr. Mohan Wani, Director, NCCS	11:00-11:30	
96	Dr. Rahul Purwar, IIT Bombay	11:30-12:00	Novel Gene Therapy for Cancer cure: an Experience from Laboratory to Clinic
97	Dr. Likhesh Sharma, Cytiva	12:00-12:30	Industrializing the Cell and Gene Therapy Ecosystem.
98	Dr. Ganesh Ingavale, Symbiosis	12:30-13:00	The role of biomaterials in stem cell therapeutics and biomanufacturing

Valedictory and Award Function from 13:00-14:00 (At NCL, Auditorium)**Conference Lunch at 14:00-16:00**