

44th International Symposium on the Separation of Proteins, Peptides & Polynucleotides

Munich (Campus Garching), Nov. 9 – 12, 2025

SUNDAY, NOVEMBER 9, 2025

10:00 Start of Registration

PRE-CONFERENCE WORKSHOPS

11:00 – 12:00	WORKSHOP 1 Michel Eppink TU Delft, Byondis B.V. Egbert Müller Tosoh Bioscience GmbH	Oligonucleotide production, purification and application in biopharmaceutical processing and their quality requirements
12:15 – 13:15	WORKSHOP 2 Michel Eppink TU Delft, Byondis B.V. Sonja Berensmeier TU Munich	Insights in Polynucleotide Production: Overcoming Purification Challenges in mRNA and Plasmid Manufacturing
13:30 – 14:30	WORKSHOP 3 Cristina Cabral University of Beira Interior	Microcalorimetry as a Tool in Preparative Chromatography: Versatility and Power
14:45 – 16:15	WORKSHOP 4 Alois Jungbauer acib GmbH & BOKU University	Purification and characterization of viral cell and gene therapy vectors

ISPPP CONFERENCE

17:00	Welcoming Remarks by Sonja Berensmeier	
Key Note Lecture – Chair: Sonja Berensmeier		
17:20	Scott Wheelwright BioChromatographix International Pte. Ltd.	Purification of viruses for gene therapy and vaccines: A comparison of convective and diffusive chromatography
18:00	Welcome Reception	

Key Not	e Lecture – Chair: Alois Jungl	hauer
		oduei
08:30	Alois Jungbauer acib GmbH & BOKU Univ.	Key Note & Session Introduction
08:35	Stefano Menegatti North Carolina State University	Stimuli-responsive peptides: A kaleidoscope of applications
Session	1: Advances in Separation Pr	ocesses - Chair: Alois Jungbauer
09:15	Aleš Podgornik University of Ljubljana	Effect of support microstructure on compression and pressure drop during flow-through applications
09:35	Fernando De Mathia BOKU University	Purification and characterization of a recombinant neuraminidase influenza virus vaccine candidate
09:55	Robert Klausser Technical University Vienna	Protein denaturation maps – Charting a course for the solubilization and refolding of bacterial inclusion bodies
10:15	Refreshment Break	
Session	2: Hybrid Processing and Ne	w Technologies- Chair: Egbert Müller
10:35	Egbert Müller Tosoh Bioscience GmbH	Session Introduction
10:40	Pedro Ferreira University of Beira Interior	A reusable nanodiamond-based platform for selective purification of RNA
11:00	Michał Kołodziej Rzeszów University of Technology	Isolation and purification of monoclonal antibodies using combined precipitation and crystallization process
11:20	Lisa Meier Technical University of Munich	Electrochemically modulated purification of plasmid DN/ using graphite electrodes in static and flow systems
11:40	Peter Mayrhofer Technical University of Munich	Light-controlled protein purification using a short photo- switchable affinity tag
12:00	Lunch Break	
Session	3: Flash and Spin-off Talks –	Chair: Michel Eppink
13:30	Michel Eppink TU Delft & Byondis B.V.	Session Introduction
13:35	Flash Talks	
	Yannick Krauke Knauer Wissenschaftliche Geräte GmbH	Large scale purification and quality control of therapeuticoligonucleotides
	Edina Császár Biomay AG	mRNA manufacturing: from template DNA to lipid nanoparticles – An integrated platform approach
	Djuro Josiċ Juraj Dobrila Univ. of Pula	Direct application of undiluted human plasma and other complex biological fluids to polymethacrylate-based monoliths and subsequent isolation of biologically active therapeutic proteins and other biopolymers

	Jonas Wege Tosoh Bioscience GmbH	Towards seamless mAb purification: Dual-Step Multi-Column Chromatography
	Marina Linova Technical University of Denmark	Advancing <i>K. phaffii</i> bioprocesses: Evaluation of continuous perfusion processes and suitable purification strategies
14:10	Spin-off Talks	
	Nils Brechmann MAGic BioProcessing	Comparative economic modeling of magnetic bead- based processing as an alternative to legacy mAb manufacturing
	Robin Karl Technical University of Munich	Holistic pilot-scale magnetic separation platform development
	Eike Theel Technical University of Munich	Potential-controlled affinity membrane chromatography (pcMAC) - Redefining gentle biomolecule purification
	Andreas Reichert Technical University of Munich	Light-controlled antibody purification via a photoswitchable protein A platform
	Simone Dimartino University of Edinburgh	Planet Crafting Labs: Empowering the biotech industry to drive sustainable innovation
15:15	Refreshment Break	
Session	4: Continuous and Intensified	Processing – Chair: Mirjana Minceva
15:45	Mirjana Minceva Technical University of Munich	Session Introduction
15:50	Mark Dürkop Novasign GmbH	Process modeling as key to intensify continuous bioprocess development
16:10	Sabrina Leigheb BOKU University	Continuous flow ultracentrifugation enables efficient capture of adeno-associated viruses from clarified lysates
16:30	Julian Galbusera Technical University of Munich	Development and economic evaluation of an intensified magnetic nanoparticle-based purification process for microbial proteins
16:50	Markus Berg enGenes Biotech GmbH	Continuous production of plasmid DNA: Advances in integrated separation and purification
17:10	Jonas Arnecke Technical University of Applied Sciences Mannheim	Process intensification for protein purification: Continuous multi-column isolation of napin and cruciferin
17:30	Short Break	
17:40	Guided Lab Tours	
18:45	Poster Party (incl. Snacks)	
20:15	End of Day 2	

	e Lecture – Chair: Elena Domin	guez Vega
08:30	Elena Dominguez Vega Leiden University Medical Centre	Key Note & Session Introduction
08:35	Charlotte Uetrecht CSSB / DESY / University of Lübeck	Flying viruses – mass spectrometry meets X-rays
Session	5: Analytics - Chair: Elena Do	minguez Vega
09:15	Christoph Gstöttner Roche Diagnostics GmbH	Analytical techniques for rAAV genome integrity and identity assessment
09:35	Katharina Dietmann Ludwigs-Maximilians- Universität München	In-line infrared spectroscopic detection of chromatographic protein separation for medical diagnostics
09:55	Flash Talks	
	Roland Drexel Postnova Analytics GmbH	Multi-detector Field-Flow Fractionation for the assessment of critical quality attributes of AAVs
	Tomas Mesurado acib GmbH	Novel analytical HPLC method for characterization a quantification of VLPs
10:10	Balasubrahmanyam Addepalli Waters Corporation	Critical quality attribute analysis of RNA therapeutics novel ribonuclease specificities
10:30	Cláudia Paiva iBET	Real-time monitoring in ultra- and diafiltration of adel associated virus and lentiviral vector using Raman Spectroscopy
10:50	Refreshment Break	-
11:00	Poster Session	
12:30	Lunch Break	
Session	6: Separation and Purification	of Bionanoparticles – Chair: Nico Lingg
13:30	Nico Lingg acib GmbH & BOKU University	Session Introduction
13:35	Patricia Pereira Aguilar acib GmbH	Functionalized non-woven fibers for the harvest, clarification and purification of bionanoparticles
13:55	Ricardo M. Silva Instituto Superior Técnico	Single-step extracellular vesicles isolation strategy u steric exclusion chromatography
14:15	Mauri Belasko Isolere Bio	Scalable purification of adherently-produced lentivira vectors using IsoTag™ LV reagent

Flash Talks	
Ronaldo Moraes Preto Instituto Butantan	Tangential flow filtration and multimodal chromatography as promising strategies for purification of outer membrane vesicles (OMVs) from <i>Neisseria lactamica</i>
Ana Carolina Moreno Pássaro Instituto Butantan	Protein purification of soluble and insoluble Rhizavidin- fused potential <i>Schistosoma mansoni</i> antigen: a comparison of chromatographic performance
Pragya Prakash Indian Institute of Technology, Delhi	Comparative analysis of chromatography-based approaches in the downstream processing of virus like particles
Refreshment Break	
7: Oligo- and Polynucleotides	– Chair: Aleš Podgornik
Aleš Podgornik University of Ljubljana	Session Introduction
Natalia Vereszki RotaChrom Tecnologies PLC	Isolation of oligonucleotides by scalable IEX-centrifugal partition chromatography
Ana Rita da Silva Santos Instituto Superior Técnico	3D-printed matrices for steric exclusion chromatography of plasmid DNA
Mikael Andersson Schönn Bio-Works AB	Ion exchange as a sustainable alternative to reversed phase chromatography for the purification of TIDES molecules
Francisco Marques Instituto Superior Técnico	shRNA precipitation strategies for sustainable RNA- based biopesticides
Sara Sousa Rosa University College London	Simplifying mRNA manufacturing using alternative separation techniques
End of session	
	Ronaldo Moraes Preto Instituto Butantan Ana Carolina Moreno Pássaro Instituto Butantan Pragya Prakash Indian Institute of Technology, Delhi Refreshment Break 7: Oligo- and Polynucleotides Aleš Podgornik University of Ljubljana Natalia Vereszki RotaChrom Tecnologies PLC Ana Rita da Silva Santos Instituto Superior Técnico Mikael Andersson Schönn Bio-Works AB Francisco Marques Instituto Superior Técnico Sara Sousa Rosa University College London

WEDNESDAY, NOVEMBER 12, 2025			
Session	Session 8: Affinity-based technologies– Chair: Jürgen Hubbuch		
09:00	Jürgen Hubbuch Karlsruhe Institute of Technology	Session Introduction	
09:05	Ana Roque NOVA University	Improving the design and production of mixed-mode and affinity ligands	
09:25	Timon Kalchmayr BOKU University	Designing for sustainability: Modelling the impact of buffer choice in chromatography	
09:45	Vanessa Kohl Merck Life Science KGaA	Exploring the Nanofitin® Affinity Ligand Platform: Showcasing case studies from novel modalities to diverse protein classes	

10:05	Flash Talks	
	Yasmin Kaveh Baghbaderani Technical University of Munich	Optimizing antibody-binding stoichiometry via the linker- region
	Cristina Dias-Cabral University of Beira Interior	In situ analysis of monoclonal antibody fragment adsorption on phenylboronic acid chromatography media
	Gregor Stitz BOKU University	Cationic polymers reduce host cell protein burden for subsequent chromatographic mAb purification
10:25	Refreshment Break	
Session 9: Fundamentals and modelling – Chair: Cristina Cabral		

Session 9: Fundamentals and modelling – Chair: Cristina Cabral		
10:45	Cristina Cabral University of Beira Interior	Session Introduction
10:50	Sponsored Talk Martin Sichting Cytiva Europe GmbH	DoE, mechanistic modelling and artificial intelligence in chromatography
11:10	Nitika Nitika Indian Institute of Technology Delhi	Application of machine learning for sustained verification of chromatography unit performance.
11:30	Dorota Antos Rzeszów University of Technology	Bulk crystallization for protein processing: new concepts, challenges and opportunities
11:50	Eric von Lieres Forschunsgzentrum Jülich	High-definition simulation of packed-bed chromatography in laterally unconfined compartments
12:10	Marcel Ottens Delft University of Technology	Host cell proteins profiling and characterization for model- based DSP design
12:30	Presentation of Poster Awards and Concluding Remarks by Sonja Berensmeier	
13:00	End of conference	



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