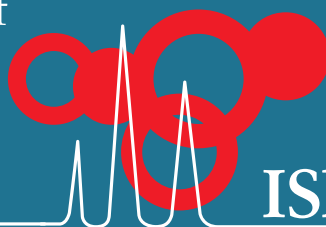
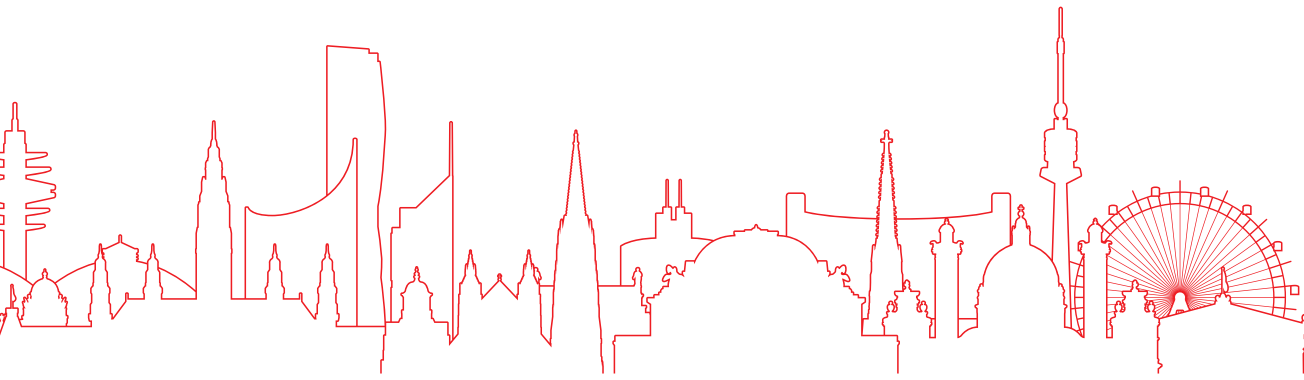


NOVEMBER 5-8, 2023

42nd International Symposium
on the Separation of
Proteins, Peptides
& Polynucleotides



ISPPP
2023 VIENNA



WE THANK OUR SPONSORS & EXHIBITORS



42nd International Symposium on the Purification of Proteins, Peptides & Polynucleotides

**VIENNA,
NOVEMBER 5 - 8, 2023**



© 2023 by acib GmbH • Krenngasse 37 • 8010 Graz • www.acib.at
Pictures by Pixabay

PLATINUM SPONSOR



GOLD SPONSOR



SILVER SPONSOR



BRONZE SPONSOR / EXHIBITORS



EXHIBITORS



WELCOME TO ISPPP 2023



I am absolutely delighted to extend a warm welcome to all of you as we gather for the 42nd International Symposium on the Separation of Proteins, Peptides, and Polynucleotides, set against the captivating backdrop of Vienna, a city renowned for its rich history and cultural vibrancy.

Our chosen venue, the Parkhotel Schönbrunn, provides the perfect setting for this symposium. It encapsulates the essence of Vienna's imperial grandeur, offering a harmonious blend of history and modernity, mirroring the evolving landscape of the separation sciences we are here to explore.

Our scientific program features a diverse array of presentations, including 39 oral presentations, 25 flash talks, and 38 posters. The topics cover the most recent developments in analytical and preparative separations of relevant biological macromolecules such as proteins, peptides and polynucleotides. Two full sessions deal with the characterization and separation of biological particles, signifying the increased importance of these new modalities. One can't help but wonder if a fourth "P" should be added to our conference name to reflect the evolution of our field.

Our keynote speakers will cover diverse topics, including cutting-edge proteoform analysis through MS-hyphenated separation techniques, time-dependent sorption behavior of viral vectors, and the latest developments in modeling tools for the biopharmaceutical industry. We are honored to have an impressive lineup of invited speakers who will share their expertise and perspectives with us. It's worth noting that the overwhelming number of abstract submissions we received compelled us to include flash talks, ensuring a dynamic and inclusive experience for attendees, regardless of their experience levels.

In addition to the core program, we have scheduled informative Sunday workshops and created a vendor corner, providing opportunities for hands-on learning and interactions with industry experts. I'd like to extend my heartfelt gratitude to our sponsors and exhibitors, whose support is instrumental in making this symposium possible. I also want to acknowledge the tireless efforts of our scientific committee, the symposium manager Verena Beck, and the dedicated team at Austropa, our event organizer. Special thanks go to our session chairs and session aides who will ensure the smooth flow of our sessions.

At ISPPP, we value feedback and continuous improvement. We are always open to your suggestions on how to enhance the symposium's future editions. As you immerse yourselves in the scientific content, workshops, discussions, and networking opportunities, I hope you find solutions to your separation challenges and leave with valuable insights that will drive your research forward.

Thank you for being a part of ISPPP 2023, and I wish you an enlightening and productive symposium experience.

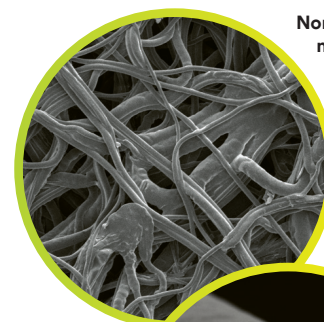
Warm regards,

Nico Lingg

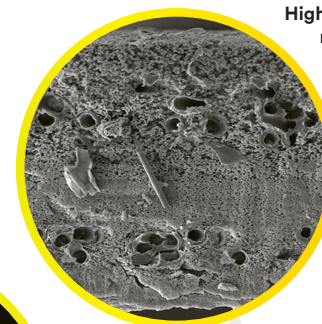
CONFERENCE CHAIR

3M Science.
Applied to Life.™

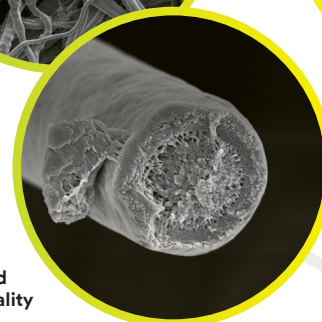
Pure science: the material difference.



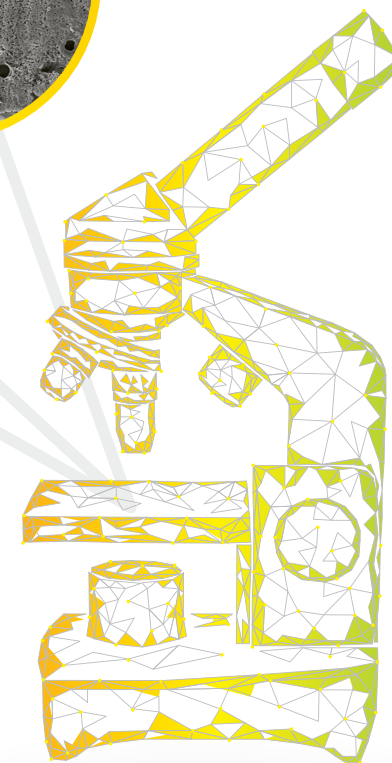
Nonwoven media



Highly asymmetric membrane



Ligand functionality



3 powerful filtration technologies.

When you're working to bring your next breakthrough to patients, you need purification solutions you can depend on.

Our biopharma and materials science expertise can help you improve in-process purity and increase the yield of your product – so you can focus on bringing life-saving treatments to trial and market.

To learn more, visit [3M.com/bioprocessing](https://www.3m.com/bioprocessing)



**BETTER HEALTH,
BRIGHTER FUTURE**



CONFERENCE CHAIR

NICO LINGG, Austrian Centre of Industrial Biotechnology/BOKU, Austria

SCIENTIFIC COMMITTEE

SONJA BERENSMEIER, Technical University of Munich, Germany

CRISTINA DIAS-CABRAL, University of Beira Interior, Covilhã, Portugal

MICHEL EPPINK, University of Wageningen, Byondis, The Netherlands

MILTON HEARN, Monash University, Australia

SOPHIA HOBER, Royal Institute of Technology (KTH), Sweden

JÜRGEN HUBBUCH, Karlsruhe Institute of Technology (KIT), Germany

ALOIS JUNGBAUER, Austrian Centre of Industrial Biotechnology (acib)/BOKU, Austria

MARCEL KWIATKOWSKI, University of Innsbruck, Austria

EGBERT MÜLLER, Tosoh, Germany

ALEŠ PODGORNIK, University of Ljubljana, Slovenia

ANDREA RAYAT, University College London, UK

SEBASTIAN SCHWAMINGER, Medical University of Graz, Austria

ORGANIZING COMMITTEE

VERENA BECK, Austrian Centre of Industrial Biotechnology, Vienna, Austria

NICO LINGG, Austrian Centre of Industrial Biotechnology/BOKU, Austria

ALOIS JUNGBAUER, Austrian Centre of Industrial Biotechnology/BOKU, Austria

ALEXANDRA SAMARA, Austropa Interconvention, Austria

TANJA SCHÄRFL, Austrian Centre of Industrial Biotechnology

It's prepacked!

Next generation chromatography resins

Enabling rapid scale-up
from screening to
GMP manufacturing



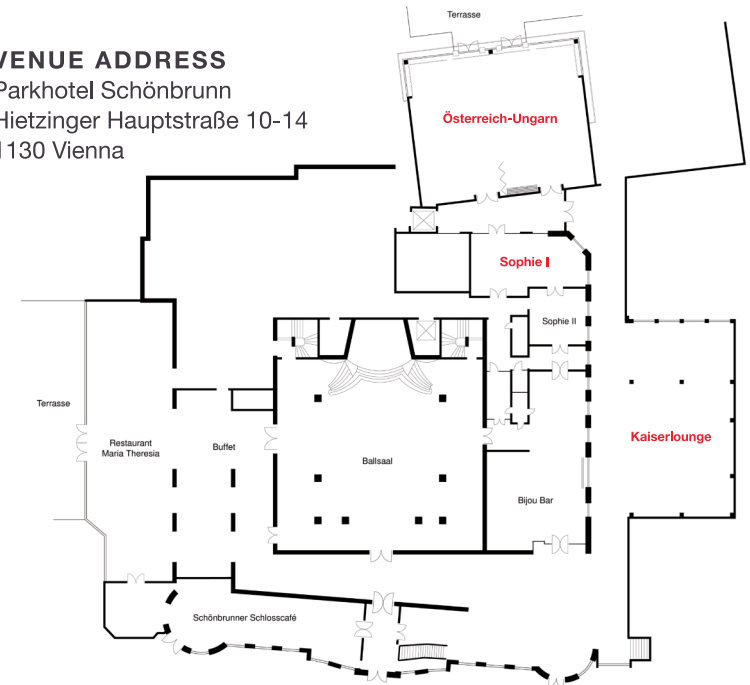
learn more at
www.bio-works.com

VENUE MAP



VENUE ADDRESS

Parkhotel Schönbrunn
Hietzinger Hauptstraße 10-14
1130 Vienna



The conference will be held in room **Österreich-Ungarn (ground floor)**. Welcome Reception, refreshment breaks, lunch, poster sessions and exhibition will be held in **Kaiserlounge (ground floor)**. The pre-conference workshops will take place in room **Sophie I (ground floor)**.

Conference Dinner

The conference Dinner will take place on
Tuesday, Nov. 7, 2023 at 6:30 pm.

Ottakringer Brewery
Ottakringer Platz 1
1160 Wien

PRE-CONFERENCE WORKSHOPS

SUNDAY, NOVEMBER 5, 2023

09:00 **START OF REGISTRATION**

09:30 **WORKSHOP 1** Magnetic separation in downstream processing

Sonja Berensmeier
TU Munich

Sebastian Schwaminger
MedUni Graz

11:15 **WORKSHOP 2** Bioinformatics as a tool developing robust biotherapeutic proteins

Michel Eppink
Byondis BV

13:00 **WORKSHOP 3** Mechanistic understanding of biomolecules adsorption: theory and applications

Cristina Cabral
Univ. of Beira Interior

Alois Jungbauer
BOKU, Vienna

14:45 **WORKSHOP 4** Poly-/Oligonucleotide separation in biopharmaceutical processing and their quality requirements

Sonja Berensmeier
TU Munich

Michel Eppink
Byondis BV

Egbert Müller
Tosoh Bioscience



PLANOVA™
Assurance Beyond Expectation

World's First Virus Removal Filter
Unrivalled History of Trusted Use in Production of Biotherapeutics



AsahiKASEI
BIOPROCESS



CONFERENCE PROGRAMME

SUNDAY, NOVEMBER 5, 2023



Vineyards on the outskirts of Vienna



Vienna Info



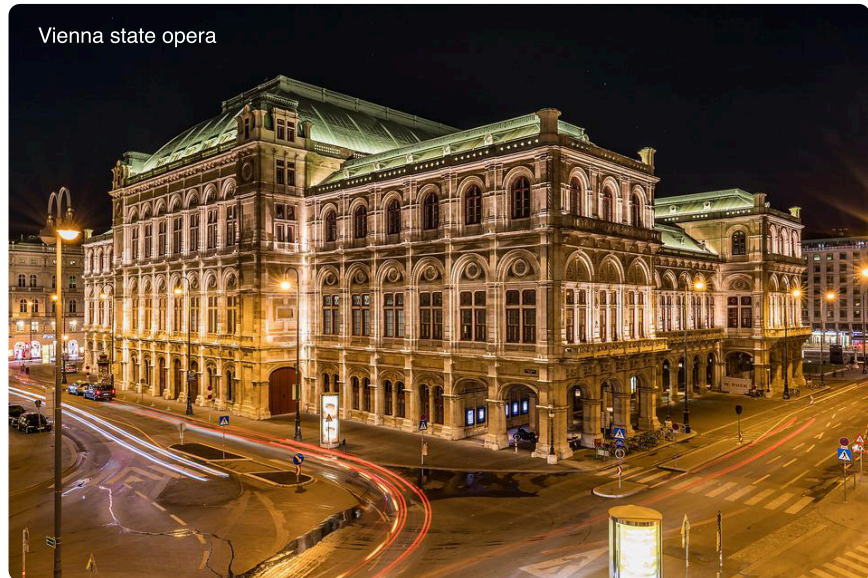
Schönbrunn palace

17:00 WELCOMING REMARKS BY NICO LINGG

KEY NOTE LECTURE
CHAIR: NICO LINGG

17:20 Elena Dominguez Vega **KN1: Probing structure and function of proteoforms by MS-hyphenated separation techniques**
Leiden Univ. Medical Center

18:00 WELCOME RECEPTION



Vienna state opera

MONDAY, NOVEMBER 6, 2023

KEY NOTE LECTURE CHAIR: ALEŠ PODGORNIK

08:30 **Nico Lingg**
Alois Jungbauer Chairman Remarks

08:45 **Dan Bracewell**
University College London **KN2:** Time-Dependent Sorption Behaviour of Viral Vectors

SESSION 1: DNA / VACCINES CHAIR: ALEŠ PODGORNIK

09:25 **Linda Gombos**
Biomay **OP1:** High-Throughput Manufacturing of Personalized Plasmid DNA Cancer Vaccines

09:45 **Ana Rita Santos**
iBB - Institute for Bio-engineering and Biosciences **OP2:** Towards industrial manufacturing of DNA-origami nanostructures: scalling up ssDNA scaffold purification

10:05 **Viviane Maimoni**
Gonçalves Instituto Butantan **OP3:** Challenges for purification of a pneumococcal recombinant protein

10:25 **Julian Grinsted**
University College London **FP1:** Design of affinity separations for the manufacture of *in vitro* transcribed mRNA

Nick Samuelson
MSD **FP2:** Increased Virus-Like Particle Recovery with Disassembly Prior to Purification

10:35 **REFRESHMENT BREAK**

SESSION 2: PROCESS INTENSIFICATION CHAIR: GIORGIO CARTA

11:05 **Michel Eppink**
Byondis BV **OP4:** Cell Tolerant Radial Affinity Chromatography (cTRAC)

11:25 **Egbert Müller**
Tosoh Bioscience GmbH **OP5:** Step Gradient SMB for mAb polishing using salt tolerant anion exchangers

11:45 **Mattia Sponchioni**
Politecnico Di Milano **OP6:** Advantages and Opportunities of Multicolumn Countercurrent Solvent Gradient Purification Accessed by Tuning the Product Internal Recycling Phase

12:05 **Ismaele Fioretti**
Politecnico Di Milano **FP3:** Process Intensification in the Purification of an Oligonucleotide Sequence by MCSGP with UV-Based Dynamic Control

Thomas Müller-Späth
Chromacon AG **FP4:** Automated two-column chromatography for the purification of Oligonucleotides and Peptides

Touraj Eslami
acib GmbH **FP5:** Optimizing chromatography for maximum efficiency: an innovative approach to optimize productivity, resin utilization, and buffer consumption

12:20 **LUNCH BREAK**

SESSION 3: NOVEL BIOSEPARATIONS & PRODUCTS CHAIR: ANA CECILIA ROQUE

13:45 **Nils Brechmann**
Magic Bioprocessing **OP7:** Scalable magnetic bead-based cell separation technology for the depletion of receptor positive cell subpopulations

14:05 **Dennis Röcker**
TU Munich **FP6:** Enhancing chromatography by use of electrochemically modulated membranes

Ryan Kilgore
North Carolina State University **FP7:** Peptide ligands: a bespoke affinity platform for next-generation bio-therapeutics and gene-editing products

Staš Vrh
Univ. of Ljubljana **FP8:** Implementation of polyHIPE monoliths for preparative and analytical separation of bacteriophages and their genomic DNA

14:20	Noor Mujahid University College London	OP8: Characterising feed and membrane interactions in tangential flow filtration of lentiviral vectors: hints for recovery improvement
14:40	Hironobu Shirataki Asahi Kasei Medical	OP9: Numerical calculations of membrane structure, virus removal performance, and filtration behaviours of virus filters based on a heterogeneous membrane structural model comprising multiple layers with different pore size distributions
15:00 REFRESHMENT BREAK		
SESSION 4: PROTEIN ANALYTICS CHAIR: ELENA DOMINGUEZ VEGA		
15:30	Deepika Sarin Indian Institute of Technology, Delhi	OP10: Multiattribute monitoring of charge-based heterogeneity of recombinant monoclonal antibodies using 2D HIC-WCX-MS
15:50	Tushar Savane Indian Institute of Technology Delhi	OP11: Quantification of concentration of mAb and excipients in a high concentration ternary mixture using ATR-FTIR spectroscopy and chemometrics
16:10	Markus Mozgovicz Vrije Universiteit Brussels	OP12: Towards comprehensive SAX × RP 2D-LC-MS/MS host cell protein profiling in biopharmaceutical manufacturing
16:30	Yehia Mechref Texas Tech University	OP13: Target Quantitative Analysis of Glycoproteins by Parallel Reaction Monitoring (PRM) LC-MS/MS
16:50	Estela Giménez Univ. of Barcelona	OP14: In-line enzymatic digestion strategies beyond trypsin for the sensitive targeted bottom-up analysis of protein biomarkers by capillary electrophoresis-mass spectrometry

SESSION 5: BIOPROENG

CHAIR: ASTRID DÜRAUER

17:10	Astrid Dürauer BOKU Vienna	Short Introduction Doctoral Programme BioProEng (BOKU)
17:15	David Scheich BOKU Vienna	FP9: Purification and characterization of recombinant secretory immunoglobulin A from CHO cell culture supernatant
	Anna-Carina Frank BOKU Vienna	FP10: Cationic flocculants assisted clarification
	Alexander Zollner BOKU Vienna	FP11: Chromatography-based purification of enveloped virus-like particles displaying different influenza surface antigens for an immunologic study in mice
	Lena Achleitner acib GmbH	FP12: Baculovirus working stock: the production and purification of an intermediate product for large scale VLP production in insect cells
	Matthias Medl BOKU Vienna	FP13: Uncovering the black-box of data-driven models in biotechnological process modeling

17:40 POSTER SESSION & NETWORKING RECEPTION



Courage means having the inner strength to push on.

Courage

As a family-owned company, we have the chance to think over the long term, to work on breakthroughs, and to lead ambitious projects. Our courage drives us forward every day in our tireless fight against cancer and our pioneering work in new areas of medicine.



www.boehringer-ingenheim.com

AOP Health is the European pioneer for integrated therapies for rare diseases and in critical care.

**Needs.
Science.
Trust.**

AOP-HEALTH.COM

TUESDAY, NOVEMBER 7, 2023

KEY NOTE LECTURE

CHAIR: STEFANO MENEGATTI

08:30 **Arne Staby**
Novo Nordisk **KN3:** Latest developments in the implementation of modelling tools in the biopharmaceutical industry

SESSION 6: mAbs

CHAIR: STEFANO MENEGATTI

09:10 **Mariachiara Conti**
Univ. of Edinburgh **OP15:** Porous platform ink for fast and high resolution 3D printing of stationary phases for affinity chromatography

09:30 **Ines Zimmermann**
TU Munich **FP14:** Selective antibody capture using low-cost magnetic particles in an automated high-gradient magnetic separator

Malin Jönsson
KTH Royal Institute of
Technology **FP15:** Mild purification of antibody fragments from human and mouse origin

Igor T.L. Bresolin
Federal Univ. of São Paulo **FP16:** Precipitation of monoclonal antibodies with polyethylene glycol and zinc chloride: process performance and rheological behavior

Daria Omralinov
TU Darmstadt **FP17:** 3D Printed Stationary Phases: The Future of Chromatography?

09:50 **Dan Pham**
TU of Denmark **OP16:** Novel multi-modal salt-tolerant cation-exchange membrane applied for the purification of a single-chain variable fragment produced in *Pichia pastoris*

10:10 **Dorota Antos**
Rzeszow University of
Technology **OP17:** PEG-aided precipitation for adjusting acidic variant content in monoclonal antibody pools

10:30 **Abraham Lenhoff**
University of Delaware **OP18:** Understanding and Mitigating Persistence of CHO Host-Cell Proteins in Monoclonal Antibody Bioprocessing

10:50 REFRESHMENT BREAK

SESSION 7: FUNDAMENTALS & MODELLING

CHAIR: CRISTINA DIAS-CABRAL

11:20 **SPONSORED TALK**
Tatjana Trunzer
Cytiva **OP19:** A chromatography system modeling strategy for precise *in silico* process scaling

11:40 **Giorgio Carta**
Univ. of Virginia **OP20:** Detective Stories in Chromatography: the Inseparable Pair, the Missing Peak, and the Gang of Three

12:00 **Lukas Gerstweiler**
Univ. of Adelaide **OP21:** Model based process optimisation of an industrial chromatographic process for separation of lactoferrin from bovine milk

12:20 **Marcel Ottens**
TU Delft **OP22:** Digital Twins for High Throughput Chromatographic Process Development

12:40 **Christian Frech**
Hochschule Mannheim –
University of Applied
Sciences **OP23:** Mechanistic modeling of cation exchange chromatography scale-up considering packing inhomogeneities

13:00 LUNCH BREAK

14:15 POSTER SESSION

SESSION 8: PROTEIN SEPARATIONS

CHAIR: MARKUS BERG

15:20 **Sobhana Alekhya Sripada**
North Carolina State
University **OP24:** "Flow-through Affinity Chromatography": a transformative approach to remove persistent and high-risk host cell proteins in Biomanufacturing

SESSION 8: PROTEIN SEPARATIONS
CHAIR: MARKUS BERG

15:40	Nico Lingg acib GmbH	OP25: CASPON – a platform process for non-platform proteins
	Daniel Elsner Boehringer Ingelheim RCV	
16:00	Matthias Müller BOKU Vienna	OP26: Purification of recombinantly produced Somatostatin-28 comparing hydrochloric acid and polyethylenimine as <i>E. coli</i> extraction aids
16:20	Ana Cecilia Roque Nova School of Science and Technology	OP27: A scalable method to purify reflectins from inclusion bodies
16:40	Preeti Saroha Indian Institute of Technology Delhi	FP18: Production of bioactive recombinant monoclonal antibody fragment in periplasm of <i>E. coli</i> expression system
	Milan Polakovic Slovak Univ. of Technology	FP19: Single-pass diafiltration using a double-membrane module
	Aleš Podgornik Univ. of Ljubljana	FP20: Determination of immobilized proteins via pH transition method
	Oliver Spadiut TU Vienna	FP21: A Peroxidase from Inclusion Bodies as valuable Tool in Breast Cancer Treatment

17:00 **END OF SESSION**

18:30 **CONFERENCE DINNER AT OTTAKRINGER BREWERY**

Headquartered in Lachen, Switzerland, Octapharma is one of the largest human protein manufacturers in the world, developing and producing human proteins from human plasma and human cell lines.

Octapharma employs more than 11,000 people worldwide to support the treatment of patients in 118 countries with products across three therapeutic areas: Hematology, Immunotherapy and Critical Care.



**Octapharma:
for the safe
and optimal
use of human
proteins.**

Octapharma has seven research and development sites and five state-of-the-art manufacturing facilities in Austria, France, Germany (2) and Sweden, and operates more than 180 plasma donation centers across Europe and North America. Octapharma USA is located in Paramus, N.J.

For more information, please visit www.octapharma.com

WEDNESDAY, NOVEMBER 8, 2023

SESSION 9: PARTICLE ANALYTICS CHAIR: PATRICIA PEREIRA AGUILAR

09:00	Christian Hill Medical University of Graz	OP28: Optofluidic Force Induction (OF2i) - a BRAVE new way in time-resolved particle characterization
09:20	Roland Drexel Postnova Analytics GmbH	OP29: Multi-detector Field-Flow Fractionation for quality assessment of nano-sized drug delivery systems
09:40	Leo Jakob acib GmbH	FP22: Accelerating Virus-Like Particle Downstream Process Development Using Asymmetric Flow Field-Flow Fractionation (AF4)
	Ricardo Silva iBB - Institute for Bioengineering and Biosciences	FP23: Anion exchange chromatography for extracellular vesicles purification
	Rashmi Sharma Indian Institute of Technology, Delhi	FP24: Downstream Process Development for intact Virus-Like Particles (VLPs) from yeast expression system <i>Pichia pastoris</i>
	Jorge João Instituto Superior Técnico - Universidade de Lisboa	FP25: Downstream processing of non-viral protein nanocages for biotechnological and biomedical applications: development of chromatography-based purification strategies
10:00	Christoph Gstoettner Leiden University Medical Center	OP30: Novel Approaches for recombinant AAV genome and capsid characterization

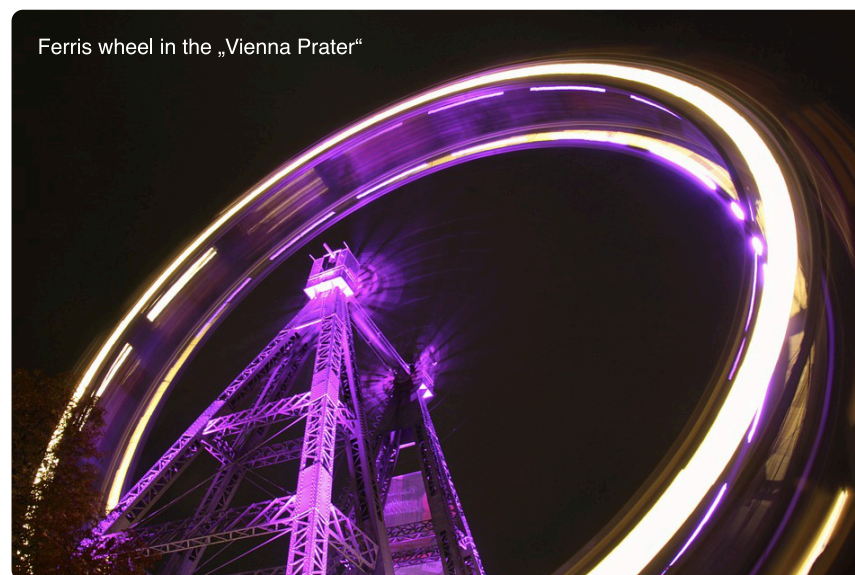
10:20 REFRESHMENT BREAK

SESSION 10: PARTICLE SEPARATIONS CHAIR: DAN BRACEWELL

10:45	Shuichi Yamamoto Yamaguchi University	OP31: Process modelling of chromatography of bio-nanoparticles based on linear gradient elution data
11:05	Rebecca Hochstein 3M	OP32: Advanced Approaches to Gene Therapy Viral Vector Separations
11:25	Rita Fernandes Ibet	OP33: Development of a robust workflow for purification of a fusogenic oncolytic virus
11:45	Patricia Pereira Aguilar acib GmbH	OP34: Functionalized non-woven fibers for purification of large labile enveloped viruses
12:05	Stefano Menegatti North Carolina State University	OP35: Novel affinity ligands for Adenoassociated virus (AAV) and Lentivirus (LV) purification

12:20 PRESENTATION OF POSTER AWARDS & CONCLUDING REMARKS

12:35 END OF CONFERENCE



Ferris wheel in the „Vienna Prater“

POSTER LIST

Poster Session 1

SUNDAY, NOV. 5 – MONDAY, NOV. 6, 2023

P1	Monika Antosova Slovak University of Technology	Effect of conditions on the separation of proteins on a multimodal cation exchange adsorbent	P12	Benjamin Kiss TargetEx Ltd.	Prediction of adsorption model parameters for cation exchange chromatography of proteins using molecular dynamics simulation and a self-developed coarse-grained modeling method
P2	Jonghwan Lee Korea Institute of Ceramic Engineering And Technology	Using Ca ²⁺ - dependent fusion protein with affinity precipitation for advanced antibody purification	P13	Tomáš Kurák Slovak University of Technology	Influence of chromatographic conditions on the adsorption of therapeutic antibodies and aggregates on multimodal adsorbents
P3	Jinho Bang Korea Institute of Ceramic Engineering And Technology	Screening of hydroxyapatite binding peptides for protein purification-tag	P14	Jacob Lebarre North Carolina State University	Mixed-mode size-exclusion silica resin for polishing human antibodies in flow-through mode
P4	Emily Berckman MSD	High-capacity purification of therapeutic mRNA with OligodT immobilized Fibro prototype chromatography media	P15	Marina Y. Linova Technical University of Denmark	Development of perfusion processes for <i>Pichia pastoris</i> : Opportunities for integrated purification of biopharmaceuticals
P5	Carly Catella North Carolina State University	Development of Peptide Glucosyltransferase Inhibitors with Comprehensive Coverage Across Clostridioides difficile Toxin B Sub-Types	P16	Tomáš Molnár Slovak University of Technology	Preparation and characterization of multimodal chromatography resins for antibody purification: A comparative study with Capto Adhere
P6	Christian Fiedler Takeda Pharmaceuticals	Development of an affinity purification step of rADAMTS13 for the	P17	Egbert Müller Tosoh Bioscience GmbH	Use of Immobilized Recombinant FcGamma III Receptor for Fractionation and Characterization of Antibody Preparations
P7	Christian Frech Hochschule Mannheim - University of Applied Sciences	Anion exchange membrane chromatography as capture step in plasmid DNA purification: Beneficial effect of salts on binding and elution	P18	Thomas Müller-Späth Chromacon AG	Accelerating chromatographic isolation and concentration of impurities with the twin-column continuous technique N-Rich
P8	Linda Gombos Biomay	Recombinant Nuclease Cas9 for Therapeutic Genome-Editing – the Manufacturer’s Point of View	P19	Marc Noverraz Sartorius Stedim Switzerland AG	Filtrations in mRNA Purification Processes. Studies of Tangential Flow Filtration and Sterilizing Grade Filtration.
P9	Fabrice Gritti Waters Corporation	Identification of Resolution Limits and Recycling Solutions for the Characterization of Monoclonal Antibodies by Size Exclusion Chromatography.	P20	Marius Segl Knauer Wissenschaftliche Geräte GmbH	Maximize flexibility and throughput. Scalable and efficient purification of synthetic peptides
P10	Sanket Jadhav Sartorius	Process Intensification using connected process for purification of mAbs: PD to Scale Up for Robust, cost effective, and agile manufacturing	P21	Ferdinando Sereno University College London	Extreme proteins require extreme purifications: a scalable and effective bioprocess for nanocompartment production.
P11	Johann Kaiser Novo Nordisk A/S	Improving Efficiency in Monoclonal Antibody Purification: An Experimental Evaluation of Membranes for Single-Pass Tangential Flow Filtration	P22	Hironobu Shirataki Asahi Kasei Medical	Viral clearance in end-to-end integrated process for mAb purification: Total flow-through integrated polishing on two columns connected to virus filtration
			P23	Daniel Some Wyatt Technology	Advances in Downstream PAT for Biologics, Vaccines and Gene Vectors
			P24	Toru Tanaka Tosoh Corporation	Development of Novel Protein L Resin with Selective Binding to Kappa 1 Light Chain

P25	Jakob Liderfelt Cytiva	Purifying challenging entities: capture of bispecific antibodies and removal of product-related impurities
P26	Marco Kress Valneva Austria GmbH	The influence of unspecific viral adsorption on pharmaceutical container surfaces in vaccine process development
P27	Dominik Voltmer Roche Diagnostics GmbH	Mechanistic modeling case study: The early model catches the leanest process
P28	Carsten Voss Repligen GmbH	Rapid development of caustic stable AAV affinity chromatography resins for AAV5 and AAV6
P29	Maria Weinberger Boehringer Ingelheim RCV	Depth filtration for early recovery of soluble expressed microbials
P30	Tatsuya Yumoto Tosoh Co., Ltd.	FcRn Immobilised HPLC Affinity Column for Antibody Evaluation

changing diabetes®



POSTER LIST

Poster Session 2

TUESDAY, NOV. 7 – WEDNESDAY, NOV. 8, 2023

P31	Jürgen Beck BOKU Vienna	Challenges in parameter estimation for two-component protein adsorption using batch and small-scale column adsorption
P32	Janos Bindics acib GmbH	Morphine Production in Genetically Engineered Poppy Cell Culture
P33	Alexander Jurjevec BOKU Vienna	Polyethyleneimine efficiently extracts recombinant cytoplasmic green fluorescent protein produced in <i>Escherichia coli</i> with high purity.
P34	Rupali Kumthekar CSIR - National Chemical Laboratory	Mapping time-dependent disulfide bond formation during <i>in-vitro</i> refolding of recombinant peptibody: A Fc-fusion protein
P35	Narges Lali acib GmbH	Fluorescently Labeled Antibody as an Inert Tracer for Characterization of Residence Time Distribution in Counter Current Protein A Affinity Chromatography
P36	Sabrina Leigh BOKU Vienna	Asymmetric field flow fractionation and Taylor Dispersion Analysis for separation and characterization of Adeno-Associated Viruses for gene therapy
P37	Rashmi Sharma Indian Institute of Technology	Optimization of the <i>in-vitro</i> refolding of biotherapeutic Fab Ranibizumab
P38	Martina Winter BOKU Vienna	Efficient identification of optimal process conditions with Gaussian processes
FP1	Julian Grinstead University College London	Design of affinity separations for the manufacture of in vitro transcribed mRNA
FP2	Nick Samuelson MSD	Increased Virus-Like Particle Recovery with Disassembly Prior to Purification
FP3	Ismaele Fioretti Politecnico di Milano	Process Intensification in the Purification of an Oligonucleotide Sequence by MCSGP with UV-Based Dynamic Control
FP4	Thomas Müller-Späth Chromacon AG	Automated two-column chromatography for the purification of Oligonucleotides and Peptides

FP5	Touraj Eslami acib GmbH	Optimizing chromatography for maximum efficiency: an innovative approach to optimize productivity, resin utilization, and buffer consumption
FP6	Dennis Röcker TU Munich	Enhancing chromatography by use of electrochemically modulated membranes
FP7	Ryan Kilgore North Carolina State University	Peptide ligands: a bespoke affinity platform for next-generation biotherapeutics and gene-editing products
FP8	Stoš Vrh University of Ljubljana	Implementation of polyHIPE monoliths for preparative and analytical separation of bacteriophages and their genomic DNA
FP9	David Scheich BOKU Vienna	Purification and characterization of recombinant secretory immunoglobulin A from CHO cell culture supernatant
FP10	Anna-Carina Frank BOKU Vienna	Cationic flocculants assisted clarification
FP11	Alexander Zollner BOKU Vienna	Chromatography-based purification of enveloped virus-like particles displaying different influenza surface antigens for an immunologic study in mice
FP12	Lena Achleitner acib GmbH	Baculovirus working stock: the production and purification of an intermediate product for large scale VLP production in insect cells
FP18	Preeti Saroha Indian Institute of Technology, Delhi	Production of bioactive recombinant monoclonal antibody fragment in periplasm of <i>E. coli</i> expression system
FP19	Milan Polakovic Slovak University of Technology	Single-pass diafiltration using a double-membrane module
FP22	Leo Jakob acib GmbH	Accelerating Virus-Like Particle Downstream Process Development Using Asymmetric Flow Field-Flow Fractionation (AF4)
FP23	Ricardo Silva iBB - Institute for Bioengineering and Biosciences	Anion exchange chromatography for extracellular vesicles purification
FP24	Rashmi Sharma, Pragma Prakash Indian Institute of Technology Delhi	Downstream Process Development for intact Virus-Like Particles (VLPs) from yeast expression system <i>Pichia pastoris</i>
FP25	Jorge João Instituto Superior Técnico - Universidade de Lisboa	Downstream processing of non-viral protein nanocages for biotechnological and biomedical applications: development of chromatography-based purification strategies



Our Vision

is to contribute to a world in which no one dies or suffers from a vaccine-preventable disease.

We are a specialty vaccine company focused on the development, manufacturing and commercialization of prophylactic vaccines for infectious diseases.

Imagine



Chromatographic separation
without chemical elution.

Coming soon.





www.isppp.net

PRINTED ON RECYCLED PAPER