

## Confirmed Speakers

### Plenary Speakers

#### **Molecular Bioprocessing: Biophysics, Simulations and Expedited Process Development (PL01)**

Prof. Steven CRAMER M  
(RENSSELAER POLYTECHNIC INSTITUTE, Troy, United States)

#### **Enabling Sustainability in Chromatography via Innovation (PL02)**

Dr David ROUSH  
(ROUSH BIOPHARMA PANACEA , Colts Neck, United States)

### Oral Communications

#### **Counter-current Chromatography for Efficient Lignin Monomer-monomer and Monomer-oligomer Separations from Lignin Oil Derived from Reductive Catalytic Fractionation (OC52)**

Dr Manar ALHERECH  
(NATIONAL RENEWABLE ENERGY LABORATORY, Golden, United States)

#### **Elucidating the Exclusion Mechanism in Cation-exchange Chromatography with High-throughput Techniques and Mechanistic Modeling to Improve Performance of Therapeutic Antibody Polishing (OC07)**

Dr Scott ALTERN  
(ABBVIE, Worcester, United States)

#### **Session Chair**

Prof. Dorota ANTOS  
(RZESZOW UNIVERSITY OF TECHNOLOGY, Rzeszow, Poland)

#### **Advancing Rapeseed Protein Purification: A Continuous Chromatographic Approach for Napin and Cruciferin (OC51)**

Mr Jonas ARNECKE  
(UNIVERSITY OF APPLIED SCIENCES MANNHEIM, Mannheim, Germany)

#### **All-atom Modelling of Methacrylate-based Multi-modal Chromatography Resins for Isotherm Parameter Prediction (OC49)**

Mr Tim BALLWEG  
(KARLSRUHER INSTITUTE OF TECHNOLOGY, Karlsruhe, Germany)

#### **Optimization For the Separation of Oligosaccharides by SMB (OC53)**

Ms Xiaoping BAO  
(JOPE TECHNOLOGY CO., LTD , Kaohsiung, Taiwan)

#### **Optimizing Plasmid DNA Purification: Anion Exchange Membrane Chromatography with Salt Modulation (OC65)**

Ms Pauline BEWOSCH  
(HS MANNHEIM , Mannheim, Germany)

#### **Mechanistic Modeling of mAbs And Host-cell Protein Impurities in Protein a Chromatography (OC08)**

Mr Soumitra BHOYAR  
(UNIVERSITY OF DELAWARE, Newark, United States)

#### **Antibody Capture from Non-clarified Cell Broth Based on Superparamagnetic Protein a Functionalized Beads (OC58)**

Dr Nils BRECHMANN  
(MAGIC BIOPROCESSING, Uppsala, Sweden)

#### **Process Analytical Technology (PAT) Informing the Manufacture and Formulation of Monoclonal Antibody-based Products (OC17)**

## Confirmed Speakers

Ms Maria BRUQUE  
(UNIVERSITY OF BIRMINGHAM, Birmingham, United Kingdom)

### **Prediction Precision of Hydrophobic Interaction Chromatography Can Be Improved with a Flexible Isotherm (OC29)**

Prof. Johannes BUYEL  
(BOKU, Vienna, Austria)

### **Evaluation of Large-scale Monolith Chromatographic Columns for AAV Capsids Separation (OC22)**

Dr Urh CERNIGOJ  
(SARTORIUS BIA SEPARATIONS, Ajdovscina, Slovenia)

### **Adapting High-throughput Technologies for Enhanced Mechanistic Modeling in Chromatography: A Novel Calibration Approach Combining KP And Robocolumn (OC06)**

Dr Chyi-Shin CHEN  
(CHUGAI PHARMACEUTICAL, Tokyo, Japan)

### **New Monodispersed Silica and Hybrid Silica Bulk Media for Purification of Peptides and Oligonucleotides (OC14)**

Dr WU CHEN  
(NANOMICRO TECHNOLOGY, NEWARK, United States)

### **Adapting the Separation Parameters to Address an Unexpected Impurity in a Validated Process (OC10)**

Dr Olivier DAPREMONT  
(SK PHARMTECO, Rancho Cordova, United States)

### **Innovations in Enhanced SFC: Complex Purification Enabled by Recent Advances in Analytical and Preparative Enhanced Fluid Chromatography (OC33)**

Mr Jimmy DASILVA  
(MERCK & CO., INC., Rahway, United States)

### **Green Purification of CROCIN-I from Saffron Through the Combination of Multicolumn Countercurrent Chromatography and Ethanol (OC54)**

Dr Chiara DE LUCA  
(UNIVERSITÀ DEGLI STUDI DI FERRARA, Ferrara, Italy)

### **High Throughput Evaluation of Membrane Chromatographic Selectivities (OC64)**

Mr Eric DENBAUM  
(RENSELAER POLYTECHNIC INSTITUTE, Troy, United States)

### **Developing Continuous Multi-column Chromatography Platforms for Virus-like Particles (VLP): A Transition from Batch to Continuous Vaccine Production (OC41)**

Dr Kabir DHINGRA  
(MERCK, West Point, United States)

### **Large Scale Purification of Peptides with MCSGP Under GMP (OC46)**

Dr Ralf EISENHUTH  
(BACHEM AG, Bubendorf, Switzerland)

### **Going Deep: Understanding Electrostatic Interaction on Strong Cation-Exchanger Via CO-ION Valency Effects (OC26)**

Mr Gregor ESSERT  
(TECHNISCHE UNIVERSITÄT MÜNCHEN, Garching, Germany)

### **Improved Manufacturing and Characterization of a Fusogenic Oncolytic Virus (OC03)**

Ms Rita FERNANDES  
(IBET, Oeiras, Portugal)

### **A Machine Learning Methodology for Resin Screening in Protein a Chromatography (OC48)**

## Confirmed Speakers

Ing Andrea GALEAZZI  
(IMPERIAL COLLEGE LONDON, London, United Kingdom)

### **Displacement Effects on the Purification of GLP-1 Receptor Agonists (OC27)**

Dr André GARCIA  
(KROMASIL BY NOURYON, Bohus, Sweden)

### **Impact of Jetting and Batch Emulsification Resin Manufacturing Technologies on Pressure-flow Characteristics (OC15)**

Mr Christopher GERBERICH  
(GSK, King of Prussia, United States)

### **Size-exclusion Chromatography Sensor as a Process Analytical Technology for the Manufacturing Process of Monoclonal Antibodies (OC18)**

Dr Fabrice GRITTI  
(WATERS CORPORATION, MILFORD, United States)

### **Solutions for Reduced Carbon Footprint and Direct Freshwater Use in MAB Manufacturing (OC23)**

Mrs Anna GRONBERG  
(CYTIVA, UPPSALA, Sweden)

### **Development of a Custom, High Throughput Purification Platform in Support of Peptide Purification (OC44)**

Ms Cristina GROSANU  
(J&J, Spring House, United States)

### **A Flexible Approach to Automated High-throughput Purification to Enable Drug Discovery (OC31)**

Ms Amber GUILLEN  
(NURIX, San Francisco, United States)

### **Predictability of Two-Component Protein Column Adsorption with Isotherm Models using Batch Experiments (OC60)**

Prof. Rainer HAHN  
(BOKU VIENNA, Vienna, Austria)

### **Scale-Bridging Separation of Gold Nanoclusters and Plasmonic Nanoparticles by Liquid Chromatography (OC57)**

Mr Lukas HARTMANN  
(FRIEDRICH-ALEXANDER-UNIVERSITY ERLANGEN-NUREMBERG, Erlangen, Germany)

### **Optimizing Bioprocess Efficiency: A Toolbox Approach to Downstream Intensification and Facility Integration (OC55)**

Dr Matthias HECHT  
(BOEHRINGER INGELHEIM, Biberach, Germany)

### **Introducing Green Flash Chromatography (OC25)**

Dr Kenneth JAMES  
(G-FLASH LLC, Newark, United States)

### **High Resolution 3D Imaging to Visualize and Characterize 3D Printed Chromatography Columns (OC20)**

Dr Thomas JOHNSON  
(UNIVERSITY COLLEGE LONDON, London, United Kingdom)

### **Integrated Model-based Design and Scale-up for a Peptide Chromatographic Purification Process (OC45)**

Dr Bhoja KANDELA  
(ELI LILLY SERVICES INDIA PRIVATE LIMITED, Bangalore, India)

## Confirmed Speakers

### **Separation and Analysis of Adeno-associated Virus Vectors Using Choline Gradient Salts in Anion-exchange Chromatography (OC35)**

Dr Jukka KERVINEN  
(TOSOH BIOSCIENCE LLC, King of Prussia, United States)

### **Employing Arginine and Trehalose for Improved Recovery in a Two Stage Lentiviral Vector Purification Process (OC37)**

Mr Andrew KOCOT  
(RENSELAER POLYTECHNIC INSTITUTE, Troy, United States)

### **Development of a Convective Flow-based Chromatography Step for the Enrichment of Full Adeno-associated Viral Vectors (OC36)**

Ms Susanne KONRAD  
(ROCHE DIAGNOSTICS GMBH, Penzberg, Germany)

### **In-line Tools for SMB Method Development in Lab Scale Used for Purification of Natural Compounds (OC19)**

Dr Yannick KRAUKE  
(KNAUER, Berlin, Germany)

### **Development of Rabbit scFv-based Immunoaffinity Chromatography for Purification of Human Kynureninase (OC01)**

Prof. Yoichi KUMADA  
(KYOTO INSTITUTE OF TECHNOLOGY, Kyoto, Japan)

### **Investigation of Retrovirus Like Particle Clearance Across Operational Ranges for Hydrophobic Interaction Chromatography Steps Using MOCKV® RVLPS (OC42)**

Ms Marisa LABANCA  
(BIOGEN, INC., Morrisville, United States)

### **Characterization of Novel High-performance Chromatography Membranes and Devices for Product Capture (OC66)**

Dr Joseph LAVOIE  
(NC STATE UNIVERSITY, Cary, United States)

### **Continuous Ternary Separation Using Double-layer Simulated Moving Bed Chromatography (OC11)**

Dr Ju Weon LEE  
(MAX-PLANCK-INSTITUT FUR DYNAMIK KOMPLEXER TECHNISCHER SYSTEME, Magdeburg, Germany)

### **Case Studies: Downstream Process Development and Platform Evolution for Fragmented-antibody-based Protein Therapeutics for Inhalation Delivery (OC56)**

Dr Haibin LUO  
(ASTRAZENECA, Gaithersburg, United States)

### **Continuous Separation of Enantiomers in SMB Chromatography with Achiral Stationary Phase (OC09)**

Dr Wojciech MAREK  
(RZESZOW UNIVERSITY OF TECHNOLOGY, Rzeszow, Poland)

### **Size-exclusion Mixed-mode (SEMM) Media for Polishing Antibodies and Viral Vectors in Flow-Through Mode (OC67)**

Dr Stefano MENEGATTI  
(NC STATE UNIVERSITY & LIGATRAP TECHNOLOGIES, Raleigh, United States)

### **Ionic Strength Effects in Protein a Affinity Membrane Chromatography (OC63)**

Mr Oussama MENOJAR MENARI GHEZIEL  
(MANNHEIM UNIVERSITY OF APPLIED SCIENCES, Mannheim, Germany)

### **Hybrid Models and Knowledge Transfer for Biopharmaceutical Processes (OC47)**

## Confirmed Speakers

Prof. Massimo MORBIDELLI  
(ARISTOTLE UNIVERSITY OF THESSALONIKI, Thessaloniki, Greece)

### **Automated System for Modelling, Calibration and Optimization of Chromatographic Separations of Biologics (OC62)**

Prof. Bernt NILSSON  
(LUND UNIVERSITY, Lund, Sweden)

### **Effect of Microstructure and Porosity on Compression of Methacrylate Polymers During Flow-through Applications (OC16)**

Dr Ales PODGORNIK  
(FACULTY OF CHEMISTRY AND CHEMICAL TECHNOLOGY, UNIVERSITY OF LJUBLJANA, Ljubljana, Slovenia)

### **Twin-column Chromatography for Isolating mAb Isoforms and Other Pharmaceutical Minor Components (OC12)**

Dr J. PRESTON  
(YMC, Devens, United States)

### **Spatial Discontinuous Galerkin Spectral Element Method for a Family of Chromatography Models in Cadet (OC50)**

Mr Johannes SCHMÖLDER  
(FORSCHUNGSZENTRUM JÜLICH GMBH, Jülich, Germany)

### **Lab Scale Chiral Chromatography: Evolution and Application to Lilly Early Drug Discovery Efforts (OC32)**

Mr Eric SEEST  
(ELI LILLY, Indianapolis, United States)

### **Influence of CHO Clonal Variations on Polysorbate 20 Degradation Kinetics in Monoclonal Antibody Formulations (OC30)**

Dr Tanja SEIBOLD  
(BOEHRINGER INGELHEIM, Biberach, Germany)

### **Process Intensification of rAAV Using Column-free Continuous Countercurrent Tangential Chromatography (CCTC) (OC40)**

Mr Oleg SHINKAZH  
(CHROMATAN, Ambler, United States)

### **Towards Development of Peptide-based Host Cell Protein Removal Technologies for Biomanufacturing (OC43)**

Ms Sobhana Alekhya SRIPADA  
(NORTH CAROLINA STATE UNIVERSITY, Raleigh, United States)

### **Innovative Mixed Mode Resin for Efficient Purification of Complex Antibody Formats: Impurity Removal and High Purity Bispecific Antibody Recovery (OC13)**

Mrs Alisa STROBEL  
(MILLIPORESIGMA, Darmstadt, Germany)

### **The New Frontier? Exploring Innovative Magnetic Separation with Mechanistic Models (OC05)**

Mr Marko TESANOVIC  
(TU MUNICH, München, Germany)

### **A Platform Strategy for the Development of Polishing Chromatography Steps (OC39)**

Dr Steve TIMMICK  
(GSK, Plymouth Meeting, United States)

### **On the Challenges of Reactive Chromatography: Estimation of Kinetics and Thermodynamics of Lactose Mutarotation (OC28)**

## Confirmed Speakers

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Mr Silvio TRESPI  
(ETH ZÜRICH, Zürich, Switzerland)

### **ION Exchange as a Sustainable Alternative to Reversed Phase Chromatography for the Purification of Tides Molecules (OC24)**

Dr Cecilia UNOSON  
(BIO-WORKS, Uppsala, Sweden)

### **Title TBC (OC21)**

Dr Nick VECCHIARELLO  
(UNIVERSITY OF VIRGINIA, Charlottesville, United States)

### **Improved Process Development and Robust Scale-Down Models for Live Virus and Virus Like Particle Purification using Automated High Throughput Chromatography Platform (OC61)**

Ms Sheng-Ching WANG  
(MERCK, West Point, United States)

### **Purification of Therapeutic Proteins Expressed in Mammalian Hosts Using a Self-removing Affinity Tag (OC02)**

Prof. David WOOD  
(THE OHIO STATE UNIVERSITY, Columbus, United States)

### **Efficient Capture of Adenovirus Serotype 5 from Multi-cell Culture Fluids by Affinity Ligands Targeting Hexon Protein (OC38)**

Mr Yuxuan WU  
(NORTH CAROLINA STATE UNIVERSITY, Raleigh, United States)

### **A Method for Determining the Optimum Temperature for a Polyphenol Separation Process by Polymer-resin Based Reversed Phase Chromatography (OC59)**

Prof. Shuichi YAMAMOTO  
(YAMAGUCHI UNIVERSITY, Ube, Japan)

### **Reversed-phase Microscale Isolations of Various Modalities (OC34)**

Ms Crystal YE  
(GENENTECH, South San Francisco, United States)

## End of Morning Workshops

## End of Afternoon Workshops