

Program

Sunday, 24 Feb. 19	17:00	Arrival and Registration	
	19:00	Dinner	
Monday, 25 Feb. 19	From 7:00	Breakfast	
	8:20-8:30	Opening remarks	
	Session I:	Process Development – CPC and Biopurification I	
		Chair: Bettina Kattein	
	08:30-08:50	Alina Mehl	Product purification and product analysis in mammalian cell cultivation
	08:50-09:10	Andreas Bauer	Extraction of astaxanthin from the microalgae Haematococcus pluvialis using a liquid-liquid chromatography column
	09:10-9:30	Angela Fromme	Flow regime map for different aqueous organic two phase systems used in a Centrifugal Partition Chromatograph
	09:30-09:50	Stefan Rauwolf	New affinity tags for non-functionalized silica
	09:50-10:10	Andreas Biselli	Adsorption as alternative purification technology in bio-refinery processes
	10:10-10:40	Coffee Break	
	Session II:	Process Development – Biopurification II	
		Chair: Sebastian Vogg	
	10:40-11:00	Deborah Gernat	Off-flavor reduction in multicomponent aqueous food streams with zeolites: Selective Strecker aldehyde removal from alcohol-free beer
	11:00-11:20	Bastian Bartling	Membrane adsorber technology for GMP-conform manufacturing of bacterial polysialic acid
	11:20-11:40	Svenja N. Bolten	Substitution of heparin for purification of cytokines
	11:40-12:00	Jan Hübbers, Matthias Knödler	Impact of cultivation conditions on the chromatographic retention behavior of host cell proteins and target proteins in plants
	12:00-13:00	Lunch break	
	Session III:	Process Development – Biopurification III	
		Chair: Deborah Gernat	
	13:00-13:20	Mohsen Fotovati	Extraction and isolation of valuable targets of saffron
	13:20-13:40	Jonas Lohr	Targeted production and purification of the antiviral peptides Labyrinthopeptin A1 and A2 by Quality-by-Design approaches
	13:40-14:00	Sebastian Vogg	Automated End-to-End Integrated Manufacturing of an Antibody
	14:00-14:20	Pia Gellermann	Production of recombinant fibrinogen gamma chain for 3D-Bioprinting and Tissue Engineering
	14:20-14:40	Catherine Mueschen	Purification of three halohydrin dehalogenases and determination of their SMA Parameters
	14:40-15:10	Coffee Break	
	Session IV:	Process Development – Continuous Chromatography	
		Chair: Johannes Schmölder	
	15:10-15:30	Mafalda G. Moleirinho	Evaluation of continuous chromatographic purification of extracellular vesicles
	15:30-15:50	Chantal Brämer	Monoclonal antibody purification using a self-established periodic counter-current chromatography device
	15:50-16:10	Carsten-Rene Arlt	Continuous fractionation of nanoparticles by magnetic field controlled multi-column chromatography
	16:10-16:30	Felix Funke	Continuous Centrifugal Extraction - A new Apparatus for Intensifying Extraction Processes
	17:00-19:00	City Tour	
	19:15	Dinner	

Tuesday, 26 Feb. 19	From 7:00	Breakfast
	Session V:	Theoretical aspects and fundamentals – Parameter Estimation
		Chair: Ivana Mutavdžin
	08:30-08:50	Ronald Colin Jäpel Simplification of inverse SMA parameter determination using only gradient elution experiments
	08:50-09:10	Stefanie Gerlich Efficient isotherm estimation using neural networks for applications in SMB process design and preparative chromatography
	09:10-9:30	Gabriela Sánchez Reyes Modeling of anion-exchange chromatography: Influence of ligand densities on Donnan equilibrium and protein separation
	09:30-09:50	David Saleh Industrial Application of Mechanistic Chromatography Modeling
	09:50-10:10	Alexander Gutzler Chromatography Model Calibration with Bayesian Optimization
	10:10-10:30	Coffee Break
	10:30-10:50	Patrick Adamez Advantages of Membrane Adsorbers in chromatography processes
	Session VI:	Theoretical aspects and fundamentals – Process Design
		Chair: David Saleh
	10:50-11:10	Franziska Hagemann Conceptual performance modelling for novel affinity chromatography membranes
	11:10-11:30	Martin Leipnitz Optimisation of resin selection by correlating structural properties with model parameters
	11:30-11:50	Nadia Galeotti Influence of Mixed Electrolytes on HIC-Adsorption and Prediction of Chromatographic Elution Profiles
	11:50-12:10	Johannes Schmölder Simultaneous identification of optimal chromatographic process concepts and operating conditions
	12:10-12:40	Coffee Break
	Session VII:	Theoretical aspects and fundamentals – Simulation
		Chair: Alexander Gutzler
	12:40-13:00	Xinghai An Thermal Gradient in Preparative Liquid Chromatography
	13:00-13:20	Anna Christler Online monitoring and real-time prediction of product quantity, purity and potency during chromatographic purification processes
	13:20-13:40	William Heymann Error modeling in Chromatography and parameter confidence
	13:40-14:00	Jayghosh S. Rao High Definition Simulation of Packed Bed Liquid Chromatography
	14:00-14:10	Closing remarks and nomination of SoCSS host 2020