

BioProcess International Europe

2-5 April 2019
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Vienna, Austria

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UCB PHARMA, *Belgium*



Christian Eckermann
Head of Biopharma Austria
& Member of the Biopharma
Executive Committee,
BOEHRINGER INGELHEIM, *Austria*



Brendan Hughes
Vice President,
MS&T, BMS, *USA*



Tony D'Amore
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New for 2019!

- ▶ **90% of speakers** are new to the agenda
- ▶ **Three full days of content** across all seven streams
- ▶ Keynote presentations **exclusive to BPI Europe 2019**
- ▶ **Exclusive site visits** to Boehringer Ingelheim and Siemens facilities
- ▶ **Improved partneringONE networking tool** to make scheduling onsite meetings easier than ever
- ▶ **Two single-day workshops** on microbial manufacturing and monitoring and control strategies
- ▶ **Two FDA speakers** confirmed to help you ensure regulatory success for your products
- ▶ Poster hall to **present your research** and hear unpublished data from global peers

AGENDA AT-A-GLANCE

Tuesday 2 April 2019 • Main Conference								
09:10-16:15	Upstream Process Development and Continuous Processing	Downstream Processing	Vaccines			Raw Materials	Cell Line Development & Engineering	
16:15-18:00	Networking Reception and Grand Opening of Poster & Exhibit Hall							
Wednesday 3 April 2019 • Main Conference								
Exhibit Hall & Poster Viewing Hours: 7:30am - 6:20pm								
08:30-13:00	Cell Culture, Upstream Process Development	Downstream Processing and Continuous Processing	Process Characterization and Bioassay Development Strategies	Bioprocess Analytics and Control Strategies	Vaccines	Viral Safety	Cell Line Development & Engineering	
13:00-14:15	Networking Lunch and Live Labs							
14:15 - 17:15	Cell Culture, Upstream Process Development	Downstream Processing and Continuous Processing	Process Characterization and Bioassay Development Strategies	Bioprocess Analytics and Control Strategies	Vaccines	Viral Safety	Cell Line Development & Engineering	
17:30-17:50	Closing Plenary							
18:20	Networking Reception							
Thursday 4 April 2019 • Main Conference								
Exhibit Hall & Poster Viewing Hours: 8:20am - 4:15pm								
08:50-12:15	Cell Culture, Upstream Process Development	Downstream Processing	Continuous Processing	Bioprocess Analytics and Control Strategies	Vaccines	Industry 4.0	Viral Safety	Cell Line Development & Engineering
12:15-13:30	Networking Lunch and Live Labs							
13:30-17:15	Cell Culture, Upstream Process Development	Downstream Processing	Continuous Processing	Bioprocess Analytics and Control Strategies	Vaccines	Industry 4.0	Viral Safety	Cell Line Development & Engineering
Friday 5 April 2019 • Post-Conference Workshops								
08:30 -12:30	Monitoring and Control Strategy for Batch and Continuous Bioprocesses				Microbial Manufacturing			
12:30-13:30	Networking Lunch							
13:30	Site Visits: 1. Siemens, Living Lab Process Industries In Vienna 2. Boehringer Ingelheim, Regional Center, Vienna *Each site visit is limited to 20 people and is available on a first come basis. You must register for a post-conference workshop to attend a site visit.							

DAY ONE – TUESDAY 2ND APRIL 2019

9:00	Registration & Coffee				
	Cell Culture, Upstream Process Development and Continuous Processing	Downstream Processing	Vaccines	Raw Materials	Cell Line Development & Engineering
9:40	Chairperson's Remarks	Chairperson's Remarks	Chairperson's Remarks	Chairperson's Remarks	Chairperson's Remarks
9:50	Optimisation of Perfusion Processing to Increase Process Intensity and Manufacturing Capacity Steffen Kreye, Upstream Process Development Expert, Bayer, Germany	Computational Fluid Dynamics and Nanoscale Modelling of Process Chromatography: Towards a Virtual Bioprocess? Alois Jungbauer, Ph.D., Professor and Chair, Institute of Biotechnology, BOKU, Austria	Scalable Manufacturing Adenoviral Vectors Platform Technology Qian Ruan, Director of Process Development and Production, PaxVax, USA	Hot Topics and Challenges in Raw Materials for Biologicals Dominic Moore, Director, CQ, Raw Materials, Genzyme Sanofi, USA	Overcoming the Challenges of Cell Line Development and Engineering for Difficult to Express Proteins Martin Gamer, Associate Director, Early Stage Bioprocess Development, Boehringer Ingelheim Pharma GmbH & Co. KG
10:20	Process Intensification: Focus on N-1 Perfusion in Routine Manufacturing Daniel Karst, Manufacturing Scientist, Biogen International GmbH, Switzerland	Tomorrow's Gene Therapy Manufacturing Laurence Croute, MSc., Senior Scientist, Technical Development, New Biological Entities, Novartis, Switzerland	PATH Case Study Lakshmi Khandke, Program Advisor, PATH, USA	Feedback from the BPOG Raw Material Variability Workstream Aaron Mack, Engineer III, Biogen, USA	Cell Line Development Strategies for Bispecific and Multi-Specific Proteins Valentina Ciccarone, Principal Scientist, Cell Line Development, MacroGenics, Inc. USA
10:50	Spotlight Presentation A Representative from Thermo Fischer Scientific	Spotlight Presentation A Representative from VWR	Spotlight Presentation	Spotlight Presentation	Spotlight Presentation A Representative from ALS
11:20	Networking Refreshment Break				
12:10	Batch and Perfusion Process Development Ben Yahia Bassem, UPS Scientist, UCB Pharma S.A. – Bioscience	Modeling and Simulation of Ion-Exchange in Bio-Processes – Illustrations from Industrial Biotechs to Biopharma David Pfister, Ph.D., Head of Software Development, Ypso-Facto, France	Generation and Production of Modified Vaccinia Virus Ankara (MVA) as a Vaccine Vector Alexander (Sandy) Douglas, Principal Investigator, Nuffield Department of Medicine, University of Oxford	Feedback from the ISIA on the use of serum in manufacturing Rosemary Versteegan, CEO, ISIA, USA	Highlights from the Process Development of GBR 310, Glenmark's Biosimilar for Xolair Martin Bertschinger, Deputy Director Cell Sciences, Glenmark Pharmaceuticals SA. Switzerland
12:40	Scaled Down Perfusion Processes Meghan Casey, Process Development Engineer III, Regeneron Pharmaceuticals, Inc.	Data Structure, Modeling and Knowledge Management in Process Development for Smooth and Efficient BLAs Joey Studts, Ph.D., Director, Purification and Formulation Development, Boehringer Ingelheim, Germany	High Titre Stable Suspension Lentiviral Vector Producer Cell Lines Using Bacterial Artificial Chromosome (BAC) Mark (Mao Xiang) Chen, Manager, Cell Line Development, Cell and Gene Therapy CMC, GlaxoSmithKline R&D, UK	Spectroscopic Online Monitoring Methods to Identify the Impact of Preparation Parameters and Raw Materials On Chemically Defined Cell Culture Media Quality Andreas Unsoeld, Head of Cell Culture Media, Boehringer Ingelheim, Germany	High Titre Stable Suspension Lentiviral Vector Producer Cell Lines Using Bacterial Artificial Chromosome (BAC) Mark (Mao Xiang) Chen, Manager, Cell Line Development, Cell and Gene Therapy CMC, GlaxoSmithKline R&D, UK
13:10	Comparison of Perfusion Systems at Seed Stage (n-1) Ruchika Bandekar, Associate Scientist II, Medimmune, UK	Utilizing Data Science and PAT Tools for Decision Making in the Bioprocess Life Cycle Christoph Herwig, Professor, Vienna University of Technology, Austria	Rapid HeLa based Producer Cell Line Development for Scalable rAAV Production Aubrey R Tiernan, Senior Scientist, Head of Cell Line Development, Ultragenyx Pharmaceuticals, Inc., USA	Considerations for Media Filtrations – Reducing Viral Contamination	Rapid HeLa based Producer Cell Line Development for Scalable rAAV Production Aubrey R Tiernan, Senior Scientist, Head of Cell Line Development, Ultragenyx Pharmaceuticals, Inc., USA
13:40	Spotlight Presentation A Representative from Merck	Spotlight Presentation A Representative from Parker Spotlight Presentation A Representative from Repligen	Spotlight Presentation	Spotlight Presentation	Spotlight Presentation A Representative from Cytene
14:10	Networking Lunch in the Poster & Exhibit Hall				

DAY ONE – TUESDAY 2ND APRIL 2019

	Cell Culture, Upstream Process Development and Continuous Processing	Downstream Processing	Vaccines	Raw Materials	Cell Line Development & Engineering
15:30	Integrated Media Blending Increases Efficiency of Clone Selection David Bruehlmann, Ph.D., Manager, Biotech Process Sciences Technology & Innovation, Merck	Advanced Control using Process Analytics for Purification and Particle Engineering Dylan Jones, Development Lead, Sanofi, United Kingdom	Tri Dialogue: Process Development – Platform Processes for Increased Efficiency and Reduced Risk TALK ONE: Recent Challenges and Opportunities in Downstream Processing Yan-Ping Yang, Head of Bioprocess Research & Development, North America, Sanofi Pasteur, Canada	Sourcing Strategies – Quality Audits And Vendor Oversight	Accelerating Cell Line Development using Transposase-Mediated Integration and Verified In-Situ Plate Seeding Angela Tuckowski, Associate Scientist, Janssen R&D Cell & Developability Sciences Group, USA
16:00	Advancing Manufacture of hPSC Derived Cardiomyocytes Through Product and Process Understanding Paula Alves, Ph.D., CEO, iBET, Portugal	Topic to be Determined Anna Senczuk, MSc., Senior Process Engineer II, Process Development Technical Services, Shire, USA (Pending final confirmation)	TALK 2: Process Development for a Flexible Vaccine Vector Platform Based on Recombinant Life Virus Dieter Palmberger, Senior Scientist, acib - Austrian Centre of Industrial Biotechnology, Austria	End of Day Q&A/ Session Wrap-up	Cytene Single Cell Printer: Getting from Implementation to Robust Cloning Process Kerensa Klottrup-Rees, Scientist II, Cell Culture and Fermentation Sciences, MedImmune
16:30	Full Line Integrated Continuous Process from Upstream to Downstream Karen Wen, President, Mycenax Biotech Inc., Taiwan		TALK 3: Development of Different Delivery Platforms for Biologics Amish Patel, Senior Director, Product Development, PaxVax, USA		PANEL DISCUSSION: Strategies to Evaluate and Improve Cell Line Stability
17:00	Networking Reception and Grand Opening of Poster & Exhibit Hall				
19:00	End of Day One				

DAY TWO – WEDNESDAY 3RD APRIL 2019

7:30	Registration & Coffee						
	Cell Culture, Upstream Process Development	Downstream Processing and Continuous Processing	Process Characterization and Bioassay Development Strategies	Bioprocess Analytics and Control Strategies	Vaccines	Viral Safety	Cell Line Development & Engineering
8:20	Plenary Session					Chairperson's Remarks	Chairperson's Remarks
	Chairperson's Remarks					Thomas R. Kreil, Senior Director Global Pathogen Safety, Shire, Austria	
8:30		KEYNOTE PRESENTATION: Bioprocess Innovations in the Era of Acceleration and Intensification Stefanos Grammatikos, VP - Head of Biotech Sciences, UCB Pharma, Belgium				Ask the Regulators – Regulatory Breakfast Briefing Albert Stühler, Deputy Head of Section, Viral Safety, Paul-Ehrlich Institut, Germany Arifa Khan, Supervisory Microbiologist, CBER, U.S. Food and Drug Administration, USA (pending final confirmation)	KEYNOTE David James, Professor of Bioprocess Engineering and Director of the Advanced Biomanufacturing Centre, University of Sheffield, UK
9:00	Operating in a Changing Landscape: Future Process Development Strategies A Representative from PALL Life Sciences						Adapting Cell Line and Clone Selection Methods and Workflows for Continuous Manufacturing Christine DeMaria, Director, Cell Line Development, Sanofi Global Biologics Development, USA
9:30		KEYNOTE PRESENTATION: Future Strategies for Bioprocessing Christian Eckermann, Head of Biopharma Austria & Member of the Biopharma Executive Committee, Boehringer Ingelheim, Austria					Streamlining Early Cell Line Development to Increase Speed and Efficiency Thomas Jostock, Science and Technology Lead / Principal Fellow, Novartis, Switzerland
10:00	Next Generation Bioprocessing Strategies A Representative from GE Healthcare Life Sciences					Spotlight Presentation A Representative from Merck	Spotlight Presentation A Representative from Lonza
10:30	Networking Refreshment Break						

DAY TWO – WEDNESDAY 3RD APRIL 2019

	Cell Culture, Upstream Process Development	Downstream Processing and Continuous Processing	Process Characterization and Bioassay Development Strategies	Bioprocess Analytics and Control Strategies	Vaccines	Viral Safety	Cell Line Development & Engineering
11:30	Intensified Fed-Batch Platform to Increase Productivity Stefania Caso , Technology and Innovation Post-Doctoral Scientist, Merck Serono SA , <i>Switzerland</i>	FEATURED PRESENTATION: Innovations in Continuous Processing Applied to the Biotech Industry Günter Jagschies , Ph.D., Senior Director, Strategic Customer Relations, GE Healthcare , <i>Germany</i>	Integrating QbD Principles and Process Characterization Approaches in Developing a Control Strategy for a Non-mAb Biologic Kumar Dhanasekharan , Ph.D., Senior Director and Head, Biologics Process and Analytical Development, Amicus Therapeutics	Process Analytics Update: Data Integration And Predictive Analytics Julian Morris , Technical Director, Centre for Process Analytics and Control Technology , <i>UK</i>	Neoantigen-Based Personalized Cancer Vaccines: The Promise Is Enormous but so is the Cost that at Current Levels Could Bankrupt Even Developed Nations' Economies Daniel Adams , Executive Chairman and Global Head of Business Development, Protein Sciences Corporation , <i>USA</i>	Continuous Virus Inactivation Process Using a Novel Packed-Bed Reactor Duarte Martins , PhD Student, Lab of Protein Technology and Downstream Processing, Dept of Biotechnology, University of Natural Resources and Life Sciences , <i>Vienna</i>	Case Study from Amgen: Accelerating Cell Line Development Christopher Tan , Scientist, Amgen , <i>USA</i>
12:00	Pitfalls And Learnings - Transition From Early To Late Stage Process Development Activities Sebastian Schwamb , Laboratory Head, Cell Culture Development in R&D Biologics Development, Sanofi , <i>Germany</i>	Innovative Manufacturing Strategies - What are the Economic Drivers? Andrew Sinclair , MSc., Director & Founder, Biopharm Services Ltd , <i>United Kingdom</i>	Strategies in Setting Up Phase-Appropriate CQAs for Non-mAb Biologics Zhimei Du , Ph.D., Director, Process Development, Merck , <i>USA</i>	Case Study from Shire: Global Implementation of Real Time Monitoring Michael Backhaus , Manufacturing Intelligence IT Lead, Shire , <i>Austria</i>	Challenges in Multicomponent Vaccine Development and Manufacturing Krishna Prasad , Director, Vaccines Research & Early Development, Pfizer Inc. , <i>USA</i>	Virus Inactivation by Laboratory and by Manufacturing Scale UV-C Irradiation in Products of Human Plasma Marcel Asper , Director Virus Laboratory, Pathogen Safety, Biotest AG , <i>Germany</i>	The BEST of Both Worlds – Targeted Integration and Multiple Copies: How Can This Go Together For Improved Cell Line Development? Anton Bauer , Senior Scientist, Medical University of Vienna , <i>Austria</i>
12:30	Spotlight Presentation A Representative from GE Healthcare	Spotlight Presentation A Representative from Thermo Fischer Scientific	Spotlight Presentation A Representative from Sartorius	Spotlight Presentation	Purity Analysis of Gene Therapy Vectors from Process Development to Commercial Process Josafina Nilsson , Head of EM Services, Vironova , <i>Sweden</i>	Spotlight Presentation A Representative from PALL LifeSciences	Novel Analytical Solutions for Cell Line Development Hannah Byrne , Product Manager, Valitacell (12:45) Spotlight Presentation A Representative from Batavia Biosciences
13:00	<i>Networking Lunch in the Poster & Exhibit Hall</i>						
13:30	Live Labs						
14:15	From Bench To Production: Addressing The Challenges Of Process Development For Novel Highly Potent Therapeutics Alison Mason , Head of Upstream Development, Ipsen Biopharm , <i>UK</i>	Development of Continuous Capture Process of Antibodies Using Different Protein A Resins: Loading Strategy, Process Design and Other Considerations Xuezhen Connie Kang , Ph.D., Principal Scientist, Continuous Manufacturing Skill Center, Sanofi , <i>USA</i> <i>(Pending final confirmation)</i>	Process Characterization Over Multiple Unit Operations Elisabeth Meulenbroek , Scientist DSP, Janssen Vaccines , <i>The Netherlands</i>	Manufacturing Continuous Process Improvement for Enhancing the Product Quality Control Capability by Process Validation Lifecycle and Implementing PAT Platform Ting-Kuo Huang , Sr. Engineer, Genentech , <i>USA</i>	A Presentation from Bio-Rad	Environmental Restrictions and Use of Alternatives to Triton X-100 in Virus Inactivation Johanna Kindermann , Manager, Pathogen Safety, Shire , <i>Austria</i> Jean-Baptiste Farcet , Senior Development Scientist, Process Development, Shire , <i>Austria</i>	End-to-end Workflow Platform to Speed Up Cell Line Development at Highest Quality Standards Christoph Freiberg , Senior Scientific Consultant, Biologics , Genedata , <i>Germany</i>

DAY TWO – WEDNESDAY 3RD APRIL 2019

	Cell Culture, Upstream Process Development	Downstream Processing and Continuous Processing	Process Characterization and Bioassay Development Strategies	Bioprocess Analytics and Control Strategies	Vaccines	Viral Safety	Cell Line Development & Engineering
14:45	Case Study: Lessons Learnt from Scale Up of Upstream Processes Matthew Osborne, Director, Biotech Technical Services/ Manufacturing Sciences, Eli Lilly Kinsale Limited, Ireland	Achieving Cost and Process Time Savings with Continuous Chromatography and Process Integration for Biotherapeutics Thomas Mueller-Spaeth, Ph.D., Senior Scientist, Institute for Chemical and Bioengineering, ETH Zurich, Switzerland	An Improved CHO HCP Detection System for Biopharmaceuticals Mindy Wan, Ph.D., Director, Technology Development, KBI Biopharma, USA	Modern Analytical Approaches in supporting Process Development Hans-Martin Mueller, Director, Biotech Development, Merck, USA	Improving Downstream Processing of Vaccines and Gene Therapy Vectors with Continuous Chromatography Manuel Carrondo, Professor of Chemical and Biochemical Engineering, FCT-UNL, Vice President, iBET, Portugal	Effective Inactivation of a Wide Range of Viruses bBy Pasteurisation Wolfram Schäfer, Senior Manager, Virus Safety Development, CSL Behring, Germany	Rapid Development of Cell Lines Suitable for Commercial Manufacturing Martin J. Allen, Senior Director, Cell Line Development, Pfizer, USA
15:15	Spotlight Presentation A Representative from Merck	Spotlight Presentation A Representative from Chiral Technologies	Spotlight Presentation A Representative from Thermo Fischer Scientific	Spotlight Presentation A Representative from GE Healthcare	Spotlight Presentation A Representative from GE Healthcare	Spotlight Presentation A Representative from Sartorius	Scalable, Helper Virus-Free AAV Production in Suspension Silke Wissing, Vice President R&D, CEVEC, Germany
15:45	Networking Refreshment Break						
16:15	Monitoring The Scale-Up Of A Biopharmaceutical Cell Culture Process Using Raman Spectroscopy At 2000 L Scale In A GMP Environment Rutger Douma, Senior Scientist/Manager Technical Operations, Janssen Biologics, The Netherlands	Intensified Processing - Can I Meet my Viral Safety Targets? Sladjana Tomić-Škrbić, Manager, Merck	How to Use Statistics in a Lifecycle Approach Steven Walfish, Principal Sciences & Standards Liaison, United States Pharmacopeia (USP), USA	Monitoring The Scale-Up Of A Biopharmaceutical Cell Culture Process Using Raman Spectroscopy At 2000 L Scale In A GMP Environment Rutger Douma, Senior Scientist/Manager Technical Operations, Janssen Biologics, The Netherlands	Efforts on the Development and Licensure of an Ebola Vaccine Parimal Desai, Vice President, Global Vaccines & Biologics Commercialization, Merck & Co., USA	Roche Diagnostics GmbH Case Study Marc Bieberbach, Senior Research Associate, Roche Diagnostics GmbH, Germany	Making the Most Out of the Data Collected along the CLD Process Anke Mayer-Bartschmid, Cell and Protein Sciences, Pharmaceuticals Division, Bayer Pharma
16:45	Advances in Real-Time Online Monitoring Methods for Product Quality in Cell Culture Bioreactors Keith Wilson, Head of Bioprocess R&D, Novimmune SA, UK	Achieving Fully Integrated Downstream Continuous Process - What Challenges Still Remain? Gorazd Hribar, Ph.D., Project Manager, nextBioPharmDSP, Novartis, Slovenia	How Far Should We Go to Demonstrate Potency of Gene Therapy Drugs In Vitro? Svetlana Bergelson, Ph.D., Director, Technical Development, Biogen, USA	Advances in Real-Time Online Monitoring Methods for Product Quality in Cell Culture Bioreactors Keith Wilson, Head of Bioprocess R&D, Novimmune SA, UK	Rapid Development of Cell Lines Suitable for Commercial Manufacturing Martin J. Allen, Senior Director, Cell Line Development, Pfizer, USA	Please move to another track	KEYNOTE: Engineering Complex Traits in CHO Cells through Multiplex Genome Editing Nathan Lewis, Assistant Professor, University of California, San Diego
17:15	Plenary Changeover						
17:20	CLOSING PLENARY: Next Generation Bioprocessing Strategies A Representative from Sartorius						
17:50	CLOSING PLENARY: Industry 4.0 in Aviation – Digitalization without beta versions Sven Taubert, Head of Corporate Foresight & Market Intelligence, Lufthansa Technik AG, Germany						
18.20	End of Day Two and Evening Party						

DAY THREE – THURSDAY 4TH APRIL 2019

	Plenary Session							Cell Line Development & Engineering
8:20	Chairperson's Opening Remarks							(8:20) Chairpersons Opening Remarks
8:30		Examining the Advances and Challenges in Vaccine Development and Manufacture Tony D'Amore, PhD, MBA, Vice President, Product Research and Development, Sanofi Pasteur						(8:30) KEYNOTE: Genome Scale Science For CHO: From Chasing The High Productivity Miracle Gene To Exquisite Phenotype Control Nicole Borth, Professor, BOKU University and ACIB, Austria
9:00		KEYNOTE: Operating in a Disruptive Bioprocessing Landscape – Next Generation Bioprocessing Technologies, Facility Design and Products to Improve Process Productivity and Increase Capacity Brendan Hughes, Vice President, MS&T, BMS, USA						(9:00) Technology Toolbox for Cell Line Development Holger Laux, Fellow, Cell Line Development, Novartis, Switzerland
9:30	Smart Biomanufacturing Facilities of the Future A Representative from IDBS							(9:30) Spotlight Presentation
10:00	Morning Coffee & Poster Tour 1							
	Cell Culture and Upstream Process Development	Downstream Processing	Continuous Processing	Bioprocess Analytics and Control Strategies	Vaccines	Industry 4.0	Viral Safety	Cell Line Development & Engineering
10:45	How Can We Reflect The Dynamic Nature Of Process Operation In The Design Space Representation? Moritz Von Stosch, Senior Manager, Process Systems Biology and Engineering Center of Excellence, GlaxoSmithKline, Belgium	Single Use Technologies within Biopharmaceutical Processing Michel Eppink, Ph.D., Director, Downstream Processing, Synthon Biopharmaceuticals BV, Netherlands	Constitutive Cell Lines for Lentivirus Production: Tools for Continuous Up- and Downstream Processing Manuel Carrondo, Director, iBET, Portugal	How Can We Reflect The Dynamic Nature Of Process Operation In The Design Space Representation? Moritz Von Stosch, Senior Manager, Process Systems Biology and Engineering Center of Excellence, GlaxoSmithKline, Belgium	How Can We Reflect The Dynamic Nature Of Process Operation In The Design Space Representation? Moritz Von Stosch, Senior Manager, Process Systems Biology and Engineering Center of Excellence, GlaxoSmithKline, Belgium	Global Digital Transformation and Implementation of Industry 4.0 in Bioprocessing	Next generation sequencing efforts at CBER Arifa Khan, Supervisory Microbiologist, CBER, U.S. Food and Drug Administration, USA (pending final confirmation)	Use of Circular RNAs as a Basis for Recombinant Protein Production Niall Barron, Director, National Institute for Cellular Biotechnology, Ireland
11:15	Scale-down cell culture models for process characterization in vaccine manufacturing Ilse Remmers, Scientist USP, Janssen Vaccines & Prevention, The Netherlands	Depth Filtration Vs. Single Use Centrifugation for Developing a 2nd Generation Commercial Manufacturing Process Daniel Fleischanderl, Head, Upstream Process Development, Shire, USA	Continuous Processes for Glyco-Optimized or Difficult-to-Express Proteins Vicky Goralczyk, Ph.D., Director, Cell Line and Bioprocess Development, Glycotope GmbH, Germany	Industry 4.0: Status and Application of Predictive Modelling in New Bioprocess Development Alexander Wiedenmann, Associate Director Protein Science and Lab Head, Boehringer Ingelheim, Germany	Scale-down Cell Culture Models for Process Characterization In Vaccine Manufacturing Ilse Remmers, Scientist USP, Janssen Vaccines & Prevention, The Netherlands	Industry 4.0: Status and Application of Predictive Modelling in New Bioprocess Development Alexander Wiedenmann, Associate Director Protein Science and Lab Head, Boehringer Ingelheim, Germany	Testing Strategies for Adventitious Agents: Impact of NGS Introduction Laurent Mallet, Global Head, Analytical Sciences, Sanofi Pasteur, France	Engineering Strategies to Suppress Viral Particle Release from CHO Cells Nicolas Mermoud, Ph.D., Professor, Director, Institute of Biotechnology, University of Lausanne, Switzerland

DAY THREE – THURSDAY 4TH APRIL 2019

	Cell Culture and Upstream Process Development	Downstream Processing	Continuous Processing	Bioprocess Analytics and Control Strategies	Vaccines	Industry 4.0	Viral Safety	Cell Line Development & Engineering
11:45	Spotlight Presentation A Representative from AGC	Spotlight Presentation A Representative from GE Healthcare	Spotlight Presentation A Representative from PALL	Spotlight Presentation	Spotlight Presentation A Representative from Sartorius	Spotlight Presentation	Spotlight Presentation A Representative from Charles River	Spotlight Presentation A Representative from Polyplus Spotlight Presentation A Representative from Selexis
12:15	<i>Lunch In The Exhibition Hall and Live Labs</i>							
13:30	Small Scale Bioprocess Optimization Using Soft Sensors Rüdiger Maschke, Research Scientist, Zurich University of Applied Sciences, Switzerland	Protein A Comparability and a Path to Dual Sourcing Aled Charles, R&D Manager, Purification Process Sciences, MedImmune	Building a Fully Integrated Continuous Bioprocessing cGMP Plant: Promises It Holds and Lessons Learned from It Samir Varma, General Manager, Head of Manufacturing, Enzene Biosciences, USA	Analytics And Real Time Product Release – Regulatory Perspective Santosh Nanda, Interdisciplinary Scientist, CBER/FDA, USA (Pending final confirmation)	Analytics And Real Time Product Release – Regulatory Perspective Santosh Nanda, Interdisciplinary Scientist, CBER/FDA, USA (Pending final confirmation)	Analytics And Real Time Product Release – Regulatory Perspective Santosh Nanda, Interdisciplinary Scientist, CBER/FDA, USA (Pending final confirmation)	Rapid Methods for Adventitious Virus Detection and Sterility Assurance: How can we achieve broad adoption Cristina Barbirato, Senior Scientist, Merck MSD, BPOG, Italy	Designing an Artificial Golgi Reactor as an Alternative to Cell Line Engineering Elli Makrydaki, Graduate Student, Dept of Chemical Engineering, Imperial College London
14:00	Spotlight Presentation A Representative from BD	Spotlight Presentation A Representative from Bio-Rad	PAT Assisted Control Strategy for Continuous Downstream Processing Margit Holzer, Ph.D., Scientific Director, Ulysse Consult S.a.r.L, Luxembourg	PAT Assisted Control Strategy for Continuous Downstream Processing Margit Holzer, Ph.D., Scientific Director, Ulysse Consult S.a.r.L, Luxembourg	Spotlight Presentation A Representative from Bio-Rad	Self-Learning Design of Experiments for Bioprocess Platforms Barbara Pretzner, PhD Candidate, TU Wein, Austria	Next-Generation Sequencing vs Traditional Methods: Considerations and Proof of Concept Data for the Development of a Next-Generation Sequencing Method for Adventitious Virus Detection Maria M. Bednar, Scientist I, AT Virology, Biogen, USA	Characterizing Clone Performance: A Union of Structure and Sequencing Steven Huhn, Senior Scientist, Merck, USA
14:30	Automation and Digitalization in Upstream Process Development: Embedding Advanced Microscale Bioreactors (Ambr) In An Efficient Sample And Data Workflow Timo Frensing, Senior Scientist, Large Molecule Research, Roche Innovation Center Munich, Germany	High Throughput Process Development Tools for Optimizing a Commercial Manufacturing Process Dominik Mittergradnegger, Head Downstream Process Development, Shire, USA	How to Incorporate Advanced Analytics in Downstream Processing – To Shorten Timelines and Enable Continuous Processing Fabian Steinebach, Ph.D., Manufacturing Scientist, Biogen, Switzerland	How to Incorporate Advanced Analytics in Downstream Processing – To Shorten Timelines and Enable Continuous Processing Fabian Steinebach, Ph.D., Manufacturing Scientist, Biogen, Switzerland	PANEL DISCUSSION: Analytics in Vaccine Development	Automation and Digitalization in Upstream Process Development: Embedding Advanced Microscale Bioreactors (Ambr) In An Efficient Sample And Data Workflow Timo Frensing, Senior Scientist, Large Molecule Research, Roche Innovation Center Munich, Germany	Viral Segregation Strategy for New Facility Designs Bonnie Schum, Engineer II, Global Biologics MSAT Department, Genentech, USA	Putting The Horse Before The Cart: Designing Gene Expression Constructs For CHO Cell Engineering Adam Brown, Lecturer of DNA Engineering, University of Sheffield, UK

DAY THREE – THURSDAY 4TH APRIL 2019

	Cell Culture and Upstream Process Development	Downstream Processing	Continuous Processing	Bioprocess Analytics and Control Strategies	Vaccines	Industry 4.0	Viral Safety	Cell Line Development & Engineering
15:00	Spotlight Presentation	Chromasette®: A Stackable Chromatography Cassette Enabling Disposable, Next-Generation Bioprocessing Guido Ströhlein, PhD, MBA, Global Director Technology and Development, JSR Micro NV	Spotlight Presentation A Representative from Chromatan	Big Data to Smart Data - Digitizing the Biotechnology Industry with BioPhorum Viktor Sandner, Data Scientist, Fujifilm Diosynth Biotechnologies	Spotlight Presentation A Representative from Expres2ion Bio Spotlight Presentation	Big Data to Smart Data - Digitizing the Biotechnology Industry with BioPhorum Viktor Sandner, Data Scientist, Fujifilm Diosynth Biotechnologies	Spotlight Presentation A Representative from SGS	Spotlight Presentation A Representative from Sartorius
15:30	Afternoon Coffee and Poster Tour 2							
16:15	Automation, Scale Down Models and High Throughput Process Development Niklas Zink, Scientist, Upstream Development, CSL Behring, Germany	Development of a Novel Affinity Resin for Capture of Recombinant Botulinum Toxins Michael Cornish, DSP Technical Specialist 2, Ipsen Biopharm Limited, United Kingdom	Enabling Industry 4.0 - Data Management and Analysis for Automated and Digitalized Bioprocessing Michael Sokolov, Ph.D., Scientist and Lecturer, ETH Zurich, Switzerland	Enabling Industry 4.0 - Data Management and Analysis for Automated and Digitalized Bioprocessing Michael Sokolov, Ph.D., Scientist and Lecturer, ETH Zurich, Switzerland	Implementation of Membrane Chromatography for Adenovirus Downstream Process Intensification Helge Abrecht, Expert Scientist, Cell & Viral Drug Substance, GSK Vaccines, Belgium	Enabling Industry 4.0 - Data Management and Analysis for Automated and Digitalized Bioprocessing Michael Sokolov, Ph.D., Scientist and Lecturer, ETH Zurich, Switzerland	Circulation of HEV in Europe – implications for blood / plasma product safety Maria Farcet, Manager, Pathogen Safety, Shire, Vienna	The Relevance Of Cell Size In A CHO Fed Batch Process: Metabolic And Transcriptomic Characterization Dirk E. Martens, Associate Professor, Bioprocess Engineering, Wageningen
16:45	Transcriptome Analysis For The Scale-Down Of A CHO Cell Fed-Batch Process Jochem Van Der Veen, Scientist, Upstream Process Development, Synthon Biopharmaceuticals BV, The Netherlands	Miniaturization and Parallelization for Downstream Purification of Microbial Expressed Proteins Cécile Brocard, Head, Downstream Development, Boehringer Ingelheim, Austria	Viral Clearance Testing in a Continuous Manufacturing Process Konstantin Zöller, Fellow, Scientific leader, Gene Therapy, Pilot Scale Manufacturing, Viral Safety, Novartis, Switzerland	End of Track	End of Track	End of Track	Viral Clearance Testing in a Continuous Manufacturing Process Konstantin Zöller, Fellow, Scientific leader, Gene Therapy, Pilot Scale Manufacturing, Viral Safety, Novartis, Switzerland	Panel Discussion: Integrating New Engineering and Cell Line Development Technologies into Established Workflows
17:15	End of BioProcess International Europe							

DAY FOUR – POST-CONFERENCE WORKSHOPS – FRIDAY 5TH APRIL 2019

8:00	<i>Registration</i>	
	Monitoring and Control Strategy for Batch and Continuous Bioprocesses	Microbial Manufacturing
8:30	Chairperson's Opening Remarks Margit Holzer , Scientific Director, Ulysse Consult , <i>Luxembourg</i>	Chairperson's Opening Remarks
8:35	• Definitions • Regulatory background • Overview of Bioprocess Controls for USP and DSP – What & Why & When to measure & control • Important requirements on process monitoring & control loops – from sampling, measuring, visualization, software, equipment and feed-back or feed-forward controls • Measuring points, frequency, data treatment and storage • Control hierarchies • Routine operation, cleaning, calibration, maintenance • Main differences between batch and continuous bioprocess control • Case studies • Perfusion monitoring & control strategy • Mab DSP monitoring & control strategy Margit Holzer , Scientific Director, Ulysse Consult , <i>Luxembourg</i>	This multi speaker symposium will focus on the latest developments and application of microbial based production (yeast and E. coli). Some of the topics to be addressed through case study examples include: • New Technologies for Primary Recovery and Cell Harvesting • Downstream Processing in Microbial Production • Automation, Robotics and High Throughput Process Development • Developing a Roadmap to Perform Effective Scale Up in Microbial Manufacturing • Developing and Validating Process Monitoring and Control Technologies for Robust Monitoring of Microbial Production • Upstream Processing - Optimising Yield, Expression and Strain Development • Adapting New Technologies and Equipment for Large Scale Microbial Production <i>Workshop Speakers:</i> Overcoming Scale-Up Challenges Through Effective Bioreactor Characterisation and the Use of Innovative Scale Down Model (SDM) Approaches Richard Davies, Associate Director, Upstream Process Sciences, UCB, <i>UK</i> Evaluating the Robustness of Industrial Scale Bioprocesses: Combining PAT and Scale-Down Bioreactors Prof. Dr. Peter Neubauer, Laboratory of Bioprocess Engineering, Department of Biotechnology, Technische Universität Berlin (TU Berlin), <i>Germany</i> The Time has Come to Bring QbD to Inclusion Body Processing Oliver Spadiut, Group Leader Integrated Bioprocess Development, ICEBE, TU Wien, <i>Austria</i> Adapting New Technologies and Implementation of Single Use Systems Ying Gao, Product Development Specialist, Porton Biopharma Ltd, <i>UK</i>
12:30	<i>Lunch and Networking</i>	
13:30	Site Visit to Siemens, Living Lab Process Industries In Vienna <i>*Both site visits are limited to 20 people. Places will be offered on a first come basis</i>	Site Visit to Boehringer Ingelheim, Regional Center, Vienna <i>*Both site visits are limited to 20 people. Places will be offered on a first come basis</i>
18:00	<i>Return from Site Visit</i>	<i>Return from Site Visit</i>

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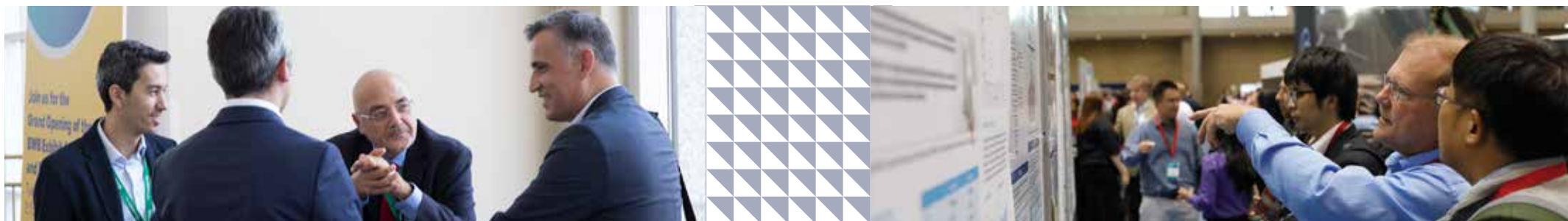
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