

BioProduction

5 -7 November 2019 • Messe Frankfurt • Frankfurt, Germany

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INCREASE PRODUCTIVITY AND QUALITY TO ACCELERATE YOUR BIOLOGICS AND NOVEL MOLECULES TOWARDS COMMERCIAL SUCCESS



#BIOPRODUCTION

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EXCITING NEWS FOR BIOPRODUCTION 2019!

New this year, BioProduction will be co-located as part of CPhI worldwide, the world's largest pharmaceutical exhibition uniting over 45,000 pharma professionals from around the globe and more than 2,500 international exhibitors.

This exciting co-location provides amazing networking opportunities to connect with thousands of scientists, engineers and technology leaders working across the entire spectrum of biopharmaceutical development and production.

The core value of BioProduction remains unchanged and will continue to deliver you with the science, technologies and contacts you need to accelerate your biologics and novel molecules towards commercial success. Register your team today to lock in the lowest rate.

Kind Regards,



Catherine Marshall
Conference Director
Informa Connect



Barry Walsh
Conference Director
Informa Connect

LEADING BIOMANUFACTURING EXPERTS SHARE SCIENTIFIC INSIGHTS



Judy Chou
Bayer, USA



Daniela Ottini
AbbVie, Ireland



Jeff Odum
Sanofi, USA



Georg Klima
Boehringer Ingelheim, Austria

INNOVATIVE SCIENCE ACROSS THE ENTIRE BIOPRODUCTION SPECTRUM

One registration fee provides you access to 150+ practical case studies and new data presentations across 5 streams, presented by global mammalian and microbial experts working across upstream, downstream and manufacturing facility design.

Upstream Processing & Cell Culture

Optimise speed, titres and quality through process intensification, media development, real time monitoring and application of machine learning and process modelling.

Smart Factories, Manufacturing Strategies & Industry 4.0

Applying digital technologies, AI, and machine learning to create smarter facilities with the flexibility to efficiently produce the next wave of biotherapeutics.

Downstream Processing

Utilizing novel approaches and technologies to enable efficient next generation downstream processes that overcome production challenges of emerging modalities.

Microbial Manufacturing

Adapt manufacturing strategies for next generation biologics through the application of yeast and E. coli expression systems

Bioanalytical & Formulation

Enhance bioanalytical development and achieve a high quality product using optimal analytical strategies and formulation whilst reducing timelines.



CONFERENCE AT-A-GLANCE

TUESDAY 5 NOVEMBER 2019

13:50-15:00	Opening Plenary Session				
	CELL LINE DEVELOPMENT & ENGINEERING	UPSTREAM PROCESSING	DOWNSTREAM PROCESSING	SMART FACTORIES, MANUFACTURING STRATEGIES & INDUSTRY 4.0	BIOANALYTICS & FORMULATION
15:30-17:30	Cell Line Development & Engineering	Process Intensification and Continuous Upstream Processing	Next Generation Downstream Processes for New Modalities	Process Efficiency and Optimization	Meeting Regulatory Requirements, Keeping Consistency High & Costs Low

WEDNESDAY 6 NOVEMBER 2019

09:45-10:50	Opening Plenary Session				
	MICROBIAL MANUFACTURING	UPSTREAM PROCESSING	DOWNSTREAM PROCESSING	SMART FACTORIES, MANUFACTURING STRATEGIES & INDUSTRY 4.0	BIOANALYTICS & FORMULATION
11:30-13:00	Latest Techniques for Extraction, Secretion and Primary Recovery	Increasing Productivity, Speed, Titres and Quality in Upstream Process Development	Overcoming Downstream Challenges for Integrated & Continuous Processing	Single Use Systems: Automation, Quality and Integration in Commercial Manufacturing	Determine Product Success with Characterisation
13:00-14:20	Luncheon & Live Labs				
14:20-17:30	Debottlenecking Microbial Downstream Processing: Disruptive Technologies Advances in Process Control, In-Process Testing and Integration of Data Science Scale Up and Tech Transfer Strategies	Increasing Productivity, Speed, Titres and Quality in Upstream Process Development Upstream Process Development for Novel Modalities and Difficult to Express Proteins	Overcoming Downstream Challenges for Integrated & Continuous Processing	Next Generation Facility & Modality Manufacturing Strategies	Determine Product Success with Characterisation

THURSDAY 7 NOVEMBER 2019

09:45-10:50	Opening Plenary Session				
	MICROBIAL MANUFACTURING	UPSTREAM PROCESSING	DOWNSTREAM PROCESSING	SMART FACTORIES, MANUFACTURING STRATEGIES & INDUSTRY 4.0	BIOANALYTICS & FORMULATION
11:20-12:50	Miniaturisation, Automation, Robotics and High Throughput Process Development	Cell Culture Process Controls, Novel Sensors and Real-Time Monitoring Methods	Using Process Understanding and Knowledge to Streamline Downstream Development	Digital Transformation and Bioprocessing 4.0 - The Path to Smart Manufacturing	Employing Analytics to Better Determine Formulation Strategies
12:50-14:00	Luncheon & Live Labs				
14:00-17:00	Miniaturisation, Automation, Robotics and High Throughput Process Development Advancements in Manufacturing New Modalities: Establishing Platform Knowledge, Toolboxes and Application of Microbial Hosts Strategies to Shift Microbial Manufacturing to Continuous Upstream Process Development	Digitalisation, Machine Learning, Artificial Intelligence and Digital Twins Process Modelling and Integration of Advanced Analytics	Process Understanding and Knowledge - High Throughput Technologies and Modeling Process Understanding and Knowledge - Approaches to Improve Quality Assurance and Control	Digital Transformation and Bioprocessing 4.0 - The Path to Smart Manufacturing Modeling, Data Mining & Interpretation	Employing Analytics to Better Determine Formulation Strategies

TUESDAY 5 NOVEMBER 2019

13:00	Registration				
13:50	Chairperson's Opening Remarks				
	OPENING PLENARY SESSION				
14:00	KEYNOTE PRESENTATION: Today's Challenges and Opportunities in Biomanufacturing Judy Chou, Senior Vice President & Global Head of Biotech; Site Head of Bayer Berkeley CA USA, Bayer Pharmaceuticals				
14:30	KEYNOTE PRESENTATION A Representative from GE Healthcare				
15:00	Afternoon Coffee Break				
	CELL LINE DEVELOPMENT & ENGINEERING	UPSTREAM PROCESSING	DOWNSTREAM PROCESSING	SMART FACTORIES, MANUFACTURING STRATEGIES & INDUSTRY 4.0	BIOANALYTICS & FORMULATION
	Cell Line Development & Engineering	Process Intensification and Continuous Upstream Processing	Next Generation Downstream Processes for New Modalities	Process Efficiency and Optimization	Meeting Regulatory Requirements, Keeping Consistency High & Costs Low
15:30	High Speed Cell Line Development for Short Timelines to IND Thomas Jostock, PhD, Science and Technology Lead / Principal Fellow, Novartis, Switzerland	Process Intensification: Intensifying Perfusion Processes for Continuous Manufacturing Daniel Fleischanderl, Head of Upstream Process Development/ Associated Director, Takeda, Austria	New Paradigm in ADC Polishing Romas Skudas, Ph.D., Senior Manager, Merck KGaA, Germany	Learnings and Challenges in Industrialization of Late Stage Biopharmaceuticals Amir Goudarzi, Head Process Engineering Biologics Pilot Plant, UCB Pharma, Belgium	KEYNOTE: Deploying Appropriate Spending on Analytical Testing To Avoid Wasting Resources Gerald Gellermann, Senior Fellow, Novartis Biologics, Analytical Development and Characterisation, Switzerland
16:00	Novel Approaches and Technology Implementation to Demonstrate Assurance of Clonality	Comparison of Alternative Perfusion Systems for Intensified (N-1) Inoculum Generation Steven Ruddock, Senior Research and Development Manager, BioPharmaceutical Development, Astra Zeneca, UK	Development and Implementation of a Harmonized Purification Platform for a Modern, Diverse Pipeline Florian Capito, Ph.D., R&D Biologics Development, Purification Development, Sanofi-Aventis Deutschland GmbH	Driving Continuous Improvement with Large Scale Manufacturing Ken Green, Ph.D., DS Operations, Samsung Biologics, South Korea	Analytics To Reduce Timelines Lorène Bernasconi, Analytical Development Lab Manager, Vovimmune, SA, Switzerland
16:30	Bispecific Molecule Formats and Concepts for Cell Line Development Kerstin Assfalg, Scientific Expert Cell Line Development, Boehringer Ingelheim Pharma GmbH & Co. KG	Media Development Combined with Frozen Process Intermediates for Intensified Seed Train Expansion Luis Fernando Ayala Solares, Scientist Perfusion Systems, Merck KGaA, Germany	Two-Step Purification Process for H1N1 Virus Using Ion Exchange Resins Wei Zhang, Ph.D., Associate Staff Scientist, Bioprocessing Institute of Singapore	Industrialization Aspects of Membrane Affinity Technology Krunal Mehta, Ph.D., Senior Scientist, Amgen (pending approval)	Risk Assessments Based On Immunogenicity Assays Harry Yang, Senior Director, MedImmune
17:00	Spotlight Presentation A Representative from Horizon Discovery	Building Quality and Consistency into Bioproduction Media and Supplements	Spotlight Presentation A Representative from Pall Life Sciences	Design Considerations Towards an Intensified Single-Use Facility Gerben Zijlstra, Global Technology Consultant, Continuous & Intensified Biomanufacturing, Sartorius Stedim Biotech	Spotlight Presentation If you are interested in giving this presentation, please contact: luke.pickering@knect365.com
17:30	End of Day One				

WEDNESDAY 6 NOVEMBER 2019

09:30	Registration and Opening of CPhI Worldwide Exhibition Halls				
09:45	Chairperson's Opening Remarks				
	OPENING PLENARY SESSION				
09:50	KEYNOTE PRESENTATION: Next Generation Bioprocessing Technologies, Facility Design and Products to Improve Process Productivity and Increase Capacity Daniela Ottini, VP, Manufacturing Operations Biologics, AbbVie, Ireland				
10:20	KEYNOTE PRESENTATION: Delivering High-Quality Therapeutics to Patients Faster Through Effective Data Management Unjolie Bhanot, Solution Owner (Biologics Development), IDBS				
10:50	Morning Coffee Break and Networking				
	MICROBIAL MANUFACTURING	UPSTREAM PROCESSING	DOWNSTREAM PROCESSING	SMART FACTORIES, MANUFACTURING STRATEGIES & INDUSTRY 4.0	BIOANALYTICS & FORMULATION
		Increasing Productivity, Speed, Titres and Quality in Upstream Process Development	Overcoming Downstream Challenges for Integrated & Continuous Processing	Single Use Systems: Automation, Quality and Integration in Commercial Manufacturing	Determine Product Success with Characterisation
11:30	KEYNOTE PRESENTATION: Digitalisation and Novel Strategies for Biopharmaceutical Development & Production Georg Klima, Executive Director Process Science Austria, Boehringer Ingelheim, Austria Latest Techniques for Extraction, Secretion and Primary Recovery	Moving Beyond Chemically Defined: Development Strategies to A Functionally Defined Media Fabian Stiefel, Associate Director in Cell Culture Bioprocess Development, Boehringer Ingelheim Pharma GmbH & Co. KG, Germany	Developing a Fully Automated and Integrated Continuous Downstream Process Stuart Jamieson, Ph.D., Principal Scientist, Biologics, CPI, United Kingdom	Next Gen Biomanufacturing for Expanding the Biopharmaceutical Portfolio Nripen Singh, Ph.D., Associate Director, MS&T Downstream, Bristol-Myers Squibb	How Identification of PTMs Can Drive Improvement of Product Quality? Hans-Rainer Voelger, Senior Scientist, Protein Analytics, Roche
12:00	A Novel E. Coli Strain Shows Controllable Cell Leakiness Jens Kastenhofer, PhD Candidate, Integrated Bioprocess Development, TU Wien, Austria	Development of a Scale Down Model for a mAB Process Characterisation Sebastian Scholz, Head of Laboratory Upstream Process Development, Sanofi	Non-Protein A Purification Platform for Continuous Processing Anamika Tiwari, Ph.D., Research Scholar, Chemical Engineering, Indian Institute of Technology, India	Building Strategic Plans for Single Use Technologies to Insure Ramp-Up to Full Commercial Routine Operations Bruno Tricoire, Head of Tech Transfers and leader of the Sanofi Single Use Network, Sanofi Pasteur	Analytical Control Strategy For Cell Therapy Products Dirk Haubert, Analytical Project Leader, Novartis
12:30	Spotlight Presentation A Representative from Sartorius	VAYU Sense Intelligent Controller - Machine Learning Based Fermentation Optimisation Service Dalit Weinstein-Fischer, CTO, VAYU Sense	Spotlight Presentation A Representative from JSR & KBI	Spotlight Presentation A Representative from GE	Integrated Solutions for Early Stage Biologics Discovery Dagmar Zunner, Field Application Scientist, Molecular Devices, FortéBio
13:00	Luncheon & Live Labs				

WEDNESDAY 6 NOVEMBER 2019

	MICROBIAL MANUFACTURING	UPSTREAM PROCESSING	DOWNSTREAM PROCESSING	SMART FACTORIES, MANUFACTURING STRATEGIES & INDUSTRY 4.0	BIOANALYTICS & FORMULATION
	Debottlenecking Microbial Downstream Processing: Disruptive Technologies	Increasing Productivity, Speed, Titres and Quality in Upstream Process Development	Overcoming Downstream Challenges for Integrated & Continuous Processing	Next Generation Facility & Modality Manufacturing Strategies	Determine Product Success with Characterisation
14:20	PANEL DISCUSSION: Debottlenecking Microbial Downstream Processing: Disruptive Technologies	Increasing the Efficiency by An Interactive Experimental Cycle Martin Jordan, Senior Scientist, Merck Biopharma	Integrated Continuous Countercurrent Processing of mAbs – Batch Processing Made Continuous Ard Tijsterman, MSc., Chief Executive Officer, Biosana Pharma BV	Flexible Manufacturing Strategies to Support DART® Molecules and Monoclonal Antibodies Thomas M. Spitznagel, Sr. Vice President, BioPharmaceutical Development and Manufacturing, MacroGenics, Inc.	New MS-based Analytical Techniques For The In-Depth Characterization of Biopharmaceuticals Elena Dominguez Vega, Postdoctoral Researcher, Leiden University
14:50		Challenges and Impacting Factors During Scale Down Model Establishment Fabian Bindel, Lab Head in Upstream Process Development, Sanofi	Latest Advances and Future Applications for Continuous Precipitation Processes Todd Przybycien, Professor, Biomedical Engineering and Chemical Engineering, RPI	Techno-Economic Analysis of Emerging Vaccine Platform and Production Technologies: How can We Produce Vaccines Faster and Cheaper? Zoltan Kis, Ph.D., Post-Doctoral Research Associate, Department of Chemical Engineering, Imperial College London, United Kingdom	MS-based Strategies for Un-targeted and Targeted Monitoring of HCPs for Process Development Udo Roth, Scientist, Sanofi
15:20	High Product Yield and Tight Control of Protein Expression in E. Coli Sagrario Arias Rivas, Program Manager & Scientific Liaison, Batavia Biosciences, Netherlands	Spotlight Presentation: Upstream Viral Risk Mitigation Strategies for High Titre Biologics Manufacturing If you are interested in giving this presentation, please contact: luke.pickering@knect365.com	Manufacturing Considerations for Virus Filtration Processes Using Planova™ BioEX Mathithas Kandasamy, Senior Product Manager & Cellulose Chromatography Specialist, Asahi Kasei Bioprocess Europe	Spotlight Presentation If you are interested in giving this presentation, please contact: luke.pickering@knect365.com	Spotlight Presentation If you are interested in giving this presentation, please contact: luke.pickering@knect365.com
15:50	<i>Afternoon Coffee Break</i>				
	Advances in Process Control, In-Process Testing and Integration of Data Science	Increasing Productivity, Speed, Titres and Quality in Upstream Process Development	Overcoming Downstream Challenges for Integrated & Continuous Processing	Next Generation Facility & Modality Manufacturing Strategies	Determine Product Success with Characterisation
16:30	Developing and Validating Process Monitoring and Control Technologies for Robust Monitoring of Microbial Production	Integrating Synthetic Biology Into Upstream Process Development Adam Brown, Lecturer in DNA Engineering, University of Sheffield, UK	Continuous Protein A Chromatography - from Lab Scale to GMP Production Ozan Ötes, Process Development Engineer, DSP Development Lab, Sanofi-Aventis Germany	Flexible Workforce: Response to Headcount Reduction and Changing Production Plans Benedikt Schöpke, Ph.D., Associate Director, Manufacturing Operations, Roche Diagnostics GmbH, Germany	Product Characterization of Vaccines Maarten Mensink, Scientist, Product Characterization, Janssen Pharmaceuticals
	Scale Up and Tech Transfer Strategies	Upstream Process Development for Novel Modalities and Difficult to Express Proteins			
17:00	Recent Examples In Outsourced Microbial Process Development & Scale-Up Elise Mous, Director Business Development, Capua BioServices	Upstream Process Development for Novel Modalities and Difficult to Express Proteins	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	Challenges and Opportunities in the Development of a Messenger RNA Manufacturing Process Peter Wojciechowski, Head Drug Substance Process Development, Moderna Therapeutics	PANEL DISCUSSION: Working Relationships between Formulation, HCPs and Immunogenicity of Biologics Harry Yang, Senior Director, Medimmune, USA
17:30	<i>End of Day Two and Evening Networking Reception</i>				

THURSDAY 7 NOVEMBER 2019

09:30

Registration and Opening of CPhI Worldwide Exhibition Halls

09:45

Chairperson's Opening Remarks

OPENING PLENARY SESSION

09:50

KEYNOTE PRESENTATION: Next Generation Biomanufacturing Facility Design and Optimisation

Jeff Odum, Global Head of Design, Technology & Standards Biologics Engineering, Sanofi, USA

10:20

KEYNOTE PRESENTATION: Evolution Of Raw Material Developments and Regulatory Standards – From Monoclonal Drugs to Cell & Gene Therapies

Ger Brophy, Executive Vice President, Biopharma Production, Avantor

10:50

Morning Coffee Break and Networking

MICROBIAL MANUFACTURING

UPSTREAM PROCESSING

DOWNSTREAM PROCESSING

SMART FACTORIES, MANUFACTURING STRATEGIES & INDUSTRY 4.0

BIOANALYTICS & FORMULATION

Miniaturisation, Automation,
Robotics and High Throughput
Process Development

Cell Culture Process Controls,
Novel Sensors and Real-Time
Monitoring Methods

Using Process Understanding
and Knowledge to Streamline
Downstream Development

Digital Transformation and
Bioprocessing 4.0 - The Path to
Smart Manufacturing

Employing Analytics to Better
Determine Formulation Strategies

11:20

Implementation of a Fully Automated Microbial Cultivation Platform for Smart Process Design

Sandra Abad, Associate Director Upstream Development, Biopharma Process Science Austria, Boehringer Ingelheim RCV GmbH & Co KG

Monitoring the Scale-Up of A Biopharmaceutical Cell Culture Process Using Raman Spectroscopy At 2000 L Scale In A GMP Environment

Tim Overkleef, Specialist New Technologies at Operations, Janssen Biologics

Utilizing Knowledge to Drive Downstream Process Development

Luka Jeromel, Ph.D., Senior Scientist, Downstream Process Development, Novartis, Switzerland (pending approval)

Biopharma 4.0 Alliance for Digital Innovation in Operations

Killian O'Driscoll, Director of Projects, NIBRT, Ireland

Chemical and Physical Protein Attributes that Influence the Stability of a Formulation

Jennifer McManus, Professor, Maynooth University

11:50

Developing High Throughput Workflows and Optimising Scale Down Models in Microbial Production
Geoff Brown, Principal Scientist, UCB, UK

Advanced Process Monitoring & Controls: Novel Methods to Ensure pH Comparability Across Sites And Scales

Christian Klinger, Senior Scientist / Manager MSAT Pilot Plant, Roche Diagnostics GmbH, Germany

Towards a Digital Twin Application in Downstream Development for Smooth and Efficient BLAs

Gang Wang, Ph.D., Scientist, Late Stage Process Development, Boehringer Ingelheim, Germany

Automation and Digitalization in Upstream Process Development: Embedding Advanced Microscale Bioreactors (ambr) in an Efficient Sample and Data Workflow

Alina Schneider, Senior Scientist, Large Molecule Research, Roche Pharma Research and Early Development, Roche Diagnostics GmbH, Germany

Orthogonal Approaches to Formulation Development
Rajiv Panwar, Principal Scientist, Magenta Therapeutics

12:20

Spotlight Presentation

A Representative from Biotechpharma

Spotlight Presentation: Integration of Novel Sensor Technologies for Monitoring Product Quality and Cell Culture Processing

If you are interested in giving this presentation, please contact: luke.pickering@knect365.com

A Challenge with Single-Use Technology: Protecting Bulk Drug Substance (DS) during Cold Chain Handling, Storage, and Transport

Joe Cintavey, Product Specialist, W. L. Gore & Associates

Spotlight Presentation

A Representative from Avantor

Spotlight Presentation

A Representative from Intertek

12:50

Luncheon & Live Labs

THURSDAY 7 NOVEMBER 2019

	MICROBIAL MANUFACTURING	UPSTREAM PROCESSING	DOWNSTREAM PROCESSING	SMART FACTORIES, MANUFACTURING STRATEGIES & INDUSTRY 4.0	BIOANALYTICS & FORMULATION
	Miniaturisation, Automation, Robotics and High Throughput Process Development	Digitalisation, Machine Learning, Artificial Intelligence and Digital Twins	Process Understanding and Knowledge - High Throughput Technologies and Modeling	Digital Transformation and Bioprocessing 4.0 - The Path to Smart Manufacturing	Employing Analytics to Better Determine Formulation Strategies
14:00	Faster Strain Phenotyping and Bioprocess Development in Less Time - Lessons from the Second Half of the Chessboard Marco Oldiges, Head of Bioprocesses and Bioanalytical Group, Research Centre Jülich – Institute of Bio- and Geosciences IBG-1:Biotechnology	Artificial Intelligence for Process Development Moritz von Stosch, Senior Manager, Process Systems Biology and Engineering Center of Excellence, Technical R&D, GSK Vaccines, Belgium	Reduced Scale Model for Viral Vaccines Process Characterization Beckley Kungah Nfor, Ph.D., Scientist, Janssen Vaccines and Prevention B.V.	Digitalization in Downstream Processing - Realizing Digital Twin Applications Based on Mechanistic Chromatography Models Simon Kluters, Lab Head, Downstream, Boehringer Ingelheim	Investigating Developability & Formulation of Biologics Shahid Uddin, Director of Drug Product, Formulation & Stability
14:30	Implementation of High-Throughput Technology in Downstream Processing - A Case Study from GSK Vaccines Vincenzo Nardi-Dei, Expert Scientist, GSK Vaccines Advancements in Manufacturing New Modalities: Establishing Platform Knowledge, Toolboxes and Application of Microbial Hosts	Application of Digitalisation, Machine Learning and Artificial Intelligence in Upstream Process Development Marc Pompiati, Senior Scientist, Roche Innovation Center Munich, Germany	From Mechanistic to Empirical and Back: Current Advancements in Chromatography Modeling Thiemo Huuk, Ph.D., Managing Director, Karlsruhe Institute of Technology, Germany	Modeling, Data Mining & Interpretation Biopharmaceutical Process Models in the Digital Age - How to Make Value Out of Data Michael Sokolov, PhD, Scientist and Lecturer, ETH Zurich, COO DataHow, Switzerland	Protein-Excipient Interactions Evaluated via NMR in Polysorbate Formulations: Influence on Antimicrobial Efficacy and Potential Study Approach Riccardo Torosantucci, Section Head, Formulation & Process Development, Sanofi
15:00	Microbial-Based Solutions for Cost-Efficient GMP Production of Recombinant Proteins and Live Microbial Products Nicole Peuker, Head USP Development, Wacker Biotech GmbH, Germany	Process Modelling and Integration of Advanced Analytics ambr15 High Throughput Model Development for Perfusion Sofie Goetschalckx, Managing Scientist Cell Culture & Microbiology MSAT, Sanofi Belgium	An Alternative to Resin Chromatography Through Single-Use, Anion Exchange Chromatography Technology Designed for Downstream Purification Sophie Muczenski, Specialist Application Engineer, 3M	Spotlight Presentation A Representative from ILC Dover	Spotlight Presentation If you are interested in giving this presentation, please contact: luke.pickering@knect365.com
15:30	Afternoon Coffee Break				
	Strategies to Shift Microbial Manufacturing to Continuous		Process Understanding and Knowledge - Approaches to Improve Quality Assurance and Control	Modeling, Data Mining & Interpretation	Employing Analytics to Better Determine Formulation Strategies
16:00	Strategies for Happy Cells in Induced Continuous Upstream Processes Christoph Herwig, Professor, Head Biochemical Engineering, Institute of Chemical Engineering, TU Wien, Austria Increasing Expression Levels and Upstream Process Development	Making Large Scale Processes Transparent – The Application of CFD and Classical Engineering Approaches to Mitigate Risk During Cell Culture Process Transfer Thomas Wucherpfennig, Scientist, Cell Culture Development, Boehringer Ingelheim Pharma GmbH & Co. KG, Germany	Control of Protein Glycosylation in a Continuous Bioreactor Process Rustin Shenkman, Ph.D., Senior Development Engineer, BDS Process Development, Shire (pending approval)	Accelerating Biomanufacturing by Modelling Jochen Strube, Ph.D., Director, Institute for Separation and Process Technology, Clausthal University of Technology	Challenges in the Analysis of High Concentration Proteins and Characterization of Subvisible (Proteinaceous / non-proteinaceous) Particles in Biopharmaceutical Formulations Zahir Akhunzada, Research Scientist, Bristol Myers Squibb
16:30	Overcoming Manufacturing Challenges through Fine Tuning Expression Levels in Microbial Systems	All Shapes and Sizes - Scaling Bioreactors using a Novel Multiphasic Computational Fluid Dynamics Approach James Scully, Principal Process Engineer – Computational Sciences, Regeneron, Ireland	Regulatory Insights in Host Cell Protein Control Erika Friedl, Ph.D., Quality Expert, Paul-Ehrlich-Institute, Germany	A Risk-Based Process Scale-Up Study Using Computer Simulations and Advanced Statistics Till Briskot, Research Engineer, Karlsruhe Institute of Technology	Regulatory Insights in Host Cell Protein Control Erika Friedl, Quality Expert, Paul-Ehrlich-Institute, Germany
17:00	End of Bioproduction 2019				

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RATES	Register by 16 August	Standard Rate
Vendor Main Conference Pass (5-7 November)	£1,999	£2,199
Pharma/Biotech Main Conference Pass (5-7 November)	£1,599*	£1,999*
Academic Main Conference Pass (5-7 November)	£549**	£649**
ADD ON OPTIONS		
Vendor Poster Presentation Space	£400	
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*Pharma/Biotech rates are only available to organisations that have active therapeutics in the development pipeline

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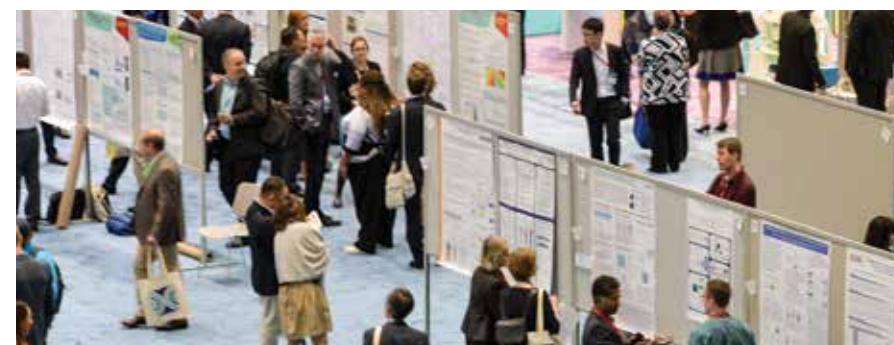
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Highlight your company's exciting new research by presenting a scientific poster, which will be displayed in the exhibition during the event. To secure your poster space, please select the 'Poster Presentation' option during registration, and submit your poster abstract online at <https://get.knect365.com/bioproduction/poster/> by 5 October 2019.

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Due to the co-location with CPhI worldwide (45,000 attendees), we anticipate hotel rooms rates to be quite high. Therefore, we encourage our attendees to register and book your hotel room early to maximise savings. Book your team's hotel accommodations today at

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