

Cell Banking & Characterization

Chaired By:

Fang Tian, PhD

American Type Culture Collection (ATCC)

Linda Fröderberg Roth, PhD

AstraZeneca R&D

Haruhiko Murata, MD, PhD

FDA CBER

FDA CBER

10:00 am - 10:30 am

Advances in Bioprocess Development

Chaired By:

Swapnil Bhargava, PhD

Seattle Genetics, Inc.

Daisie Ogawa

Boehringer Ingelheim Corporation

Raw Materials Science & Control

Chaired By:

David Kolwyck

Biogen

Kevin P. Kent, PhD

Boehringer Ingelheim Animal Health

Contaminant Control

Chaired By:

Jeri Ann Boose, PhD

Eurofins Lancaster Laboratories, Inc.

Raymond Nims, PhD

RMC Pharmaceutical Solutions, Inc.

SUNDAY • NOVEMBER 3, 2019

4:00 pm - 7:00 pm Welcome Reception and Registration in the Foyer, Fourth Floor

MONDAY • NOVEMBER 4, 2019

Dogistration and Droplefact in the Fover Fourth Flor

/:00 am — 8:00 am	Registration and Breakfast in the Foyer, Fourth Floor					
8:00 am – 8:30 am	Meeting Overview in Salon A, Fourth Floor					
	Cell Banking & Characterization Salon B, Fourth Floor	Advances in Bioprocess Development Salon C, Fourth Floor	Raw Materials Science & Control Salon F, Fourth Floor	Contaminant Control Salon A, Fourth Floor		
8:30 am – 9:15 am	High-Speed and High-Throughput Image Cytometry Assays to Investigate CRISPR/Cas9-Mediated Site-Specific Gene Expression, Cell Cycle, Apoptosis, and Reactive Oxygen Species in CHO Cells Jean Qiu, PhD Nexcelom Bioscience LLC	CHO Cell Culture Process Optimization at Low Glucose Concentrations for mAB Production Rohan Patel MedImmune, A member of the AstraZeneca Group	Analytical Insights from Raw Material Testing of Cell Culture Media Components Elizabeth C. Dodson Thermo Fisher Scientific	Surface Decontamination: Removal or Inactivation? Spray, Wipe, or Vapor? S. Steve Zhou, PhD MicroBioTest, div. of Microbac Laboratories, Inc.		
9:15 am — 10:00 am	Facilitating the Introduction of New Vaccines: Addressing DNA Oncogenicity Concerns with Novel Cell Substrates Keith Peden, PhD FDA CRER	Feeding TCA Cycle Intermediates Improves Lactate Consumption and Antibody Production in CHO Cell Cultures Xiaolin Zhang, PhD Merck & Co., Inc.	Implementation of an Integrated Approach for Fingerprinting Cell Culture Media Kathryn Aron, PhD Bristol-Myers Squibb Company	Best Practices for Planning and Conducting Extractable and Leachable Studies Charles E. Ducker, PhD Eurofins Lancaster Laboratories, Inc.		

Morning Break in the Exhibit Area

The Waterside Conference (continued): MONDAY - NOVEMBER 4, 2019							
	Cell Banking & Characterization Salon B, Fourth Floor	Advances in Bioprocess Development Salon C, Fourth Floor	Raw Materials Science & Control Salon F, Fourth Floor	Contaminant Control Salon A, Fourth Floor			
10:30 am — 11:15 am	A Nature Inspired DMSO-, Protein-, and Serum-Free Chemically- Defined Biopreservation Solution, the New Horizon of Precision in Cell Manufacturing and Processing Xiaoxi Wei, PhD X-Therma Inc.	Potency Assay Basics and Application to Process Development Jyoti Velayudhan, PhD Seattle Genetics, Inc.	From Chemically to Functionally Defined: A Development Strategy to Reduce Raw Material Introduced Process Variability in Cell Culture Media Matthias Brunner, PhD Boehringer Ingelheim GmbH	Detection of Viral Contamination in Cell Culture by Targeted Amplicon Sequencing Using an Automated Next-Generation Sequencing Workflow with Simplified Data Analysis Elena Bolchakova Thermo Fisher Scientific			
11:15 am — 12:00 noon	Gene Editing to Improve Upstream and Downstream Production of HIV Vaccines Phillip W. Berman, PhD University of California, Santa Cruz	High-Throughput Screening of High-Producing CHO Cell Lines for Biomanufacturing of Biologics Simon Joubert, PhD National Research Council Canada (NRC)	New Approaches to Advancing a Raw Material Variability Strategy Stefan Yohe, PhD Genentech, a Member of the Roche Group	Background NGS Data for Sample Matrix and Reference Control Standards Using Nanopore Sequencing Serge Monpoeho, PhD Regeneron Pharmaceuticals, Inc.			
12:00 noon – 1:30 pm	Lunch in the Exhibit Area (Poster Session from 1:00 – 1:30 pm) Sponsored by Wyatt Technology Corporation						
1:30 pm – 2:15 pm	Development of an Allelic Ladder for Mouse Cell Line Authentication Jamie Almeida National Institute of Standards & Technology (NIST)	Use of Stable Pools for Drug Substance Production to Support Non-Clinical Studies to Accelerate the Timeline — A Case Study Li Zhang Amgen Inc.	Complex Raw Material and Spent Cell Media Analyses to Support Bioprocess Development and Troubleshooting Activities Frederic Girard, Phd Eurofins Spinnovation Analytical	Robust Parvovirus (MVM) Clearance Using Anion Exchange Membrane Adsorbers Sherri Dolan Sartorius Stedim North America Inc.			
2:15 pm – 3:00 pm	Regulatory Considerations for Characterizing Cell Substrates Anissa Cheung FDA CBER	Seed Train Intensification with High Density Cell Banks and N-1 Perfusion Jessica Maier Boehringer Ingelheim Corporation	Analysis of Cell Media Degradation and Variations With a New At-Line Analyzer Glenn A. Harris, PhD 908 Devices Inc.				
3:00 pm – 3:30 pm	Afternoon Break in the Exhibit Area						
3:30 pm — 4:15 pm	Precision Genome Engineering of Mammalian Host Cell Lines for Enhanced Viral Production Elizabeth Turner Gillies, PhD American Type Culture Collection (ATCC)	Technology Workshop Cellaca™ MX: A Novel Instrument for High-Throughput, High- Speed Cell Counting, Concentration, and Viability Jean Qiu, PhD Nexcelom Bioscience LLC	Technology Workshop Managing Change Control Using a System Risk Structure (SRS)- Based Quality Risk Management (QRM) Exercise Mark F. Witcher, PhD Brevitas Consulting Inc.	Technology Workshop Bridging the Gap: A Biopharmaceutical Processing Workforce Development Continuum Ronald G. Kander, PhD Thomas Jefferson University			
5:00 pm – 7:00 pm	Reception in the Exhibit Area						
		TUESDAY • NOV	/EMBER 5, 2019				
7:30 am — 8:30 am	Breakfast in the Exhibit Area						
8:30 am — 9:15 am	Legacy Challenges of the Modern Biobank Donna M. Altamuro Coriell Institute for Medical Research	Get Off the Critical Path: Long-Term Cell Banking Strategies and Working with Fast Timelines James Lambropoulos Biogen	Industry-Wide Benchmarking on Standardization of Trace Elements in Cell Culture Media Balasubramanian Ramanathan, PhD Janssen Pharmaceuticals, Inc.	Update on Validation Considerations for Rapid Mycoplasma Detection Using qPCR: Regulatory Queries and Responses Michael Brewer Thermo Fisher Scientific			
9:15 am — 10:00 am	Nanowarming of Thin and Thick Walled Arteries in 30–50 mL Volumes — The First Step Towards Organ Cryopreservation Kelvin GM Brockbank, PhD Tissue Testing Technologies LLC	Utilizing High-Throughput Stable Transfections to Eliminate Transient Transfections for Sequence Variant Analysis Pauline Smidt Just Biotherapeutics, Inc.	A Quality by Design Approach to Assess Critical Raw Materials Harika Vemula, PhD Merck KGaA	Facility Segregation for Downstream Processing of Plasma- Derived and Recombinant Products Michael Burdick, PhD CSL Behring			
10:00 am — 10:30 am	Morning Break in the Exhibit Area						

The Waterside Conference (continued): TUESDAY • NOVEMBER 5, 2019

	Cell Banking & Characterization Salon B, Fourth Floor	Advances in Bioprocess Development Salon C, Fourth Floor	Raw Materials Science & Control Salon F, Fourth Floor	Contaminant Control Salon A, Fourth Floor		
10:30 am — 11:15 am	The Zeitgeist of Our Time: Reagent Quality is the Cornerstone of Research Excellence Sonia Houghton Cryosphere Services	Developing and Validating Manufacturing Processes for 21st Century Biopharmaceutical Products Mark F. Witcher, PhD Brevitas Consulting Inc.	Reference Materials for Viral Gene Vectors Keith L. Carson ISBioTech	AAV Gene Therapy for Tay-Sachs Disease: Lessons Learned from Preclinical to Clinical Vector Production for an Expanded Access Clinical Trial Miguel Sena Esteves University of Massachusetts Medical School		
11:15 am — 12:00 noon	Imposter Cell Lines — A Continuing Threat to the Validity of Biomedical Research Christopher Korch, PhD University of Colorado School of Medicine		Elemental Metal Variance in Cell Culture Raw Materials: Analytical Method Design and Application Chris Grinnell Biogen	Viral Clearance and Aggregate Polish for Clinical Monoclonal Antibodies Using Hydrophobic Interaction Chromatography John J. Li, PhD Thermo Fisher Scientific		
12:00 noon — 6:00 pm	Free Afternoon with Recommended Group Activities: Guided Bike Tour of the Elizabeth River Trail • Guided Historical Walking Tour • Glass Blowing Workshop at the Chrysler Glass Studio • River Cruise on the Victory Rover • Admission to Nauticus and the Battleship Wisconsin					
6:00 pm – 9:00 pm	Speakeasy Jazz Banquet at the Historic Martin Mansion Sponsored by Pall Biotech					
	WEDNESDAY • NOVEMBER 6, 2019					
7:30 am — 8:30 am		Breakfast in t	he Exhibit Area			
8:30 am – 9:15 am	Best Practices and International Standards for Cell Banking Fang Tian, PhD American Type Culture Collection (ATCC)	Ensuring Bioreactor Scale-Down Models are Representative of Clinical and Commercial-Scale with Respect to Misincorporations John Bushey Seattle Genetics, Inc.	Innovative Molecules to Simplify Fed-Batch Processes and Ensure Batch-to-Batch Consistency Janike Ehret Merck KGaA	Scientific Considerations for the Analysis of Host Cell Proteins John Smith, PhD and Jacob Serfass, PhD Eurofins Lancaster Laboratories, Inc.		
9:15 am — 10:00 am	Next-Generation Strategies for Enhanced Cryopreservation Outcome John M. Baust, PhD CPSI Biotech	Investigating Atypical Cell Culture Performance and Charge Variant Profile of a Monoclonal Antibody from a Large-Scale Mammalian Cell Culture Process Jeffrey Ly Merck & Co., Inc.	Application of Data Analytics to Better Understand and Control Raw Material Variation Susan Burke, PhD Amgen Inc.	Beyond LAL: The rFC and MAT Assays Allen L. Burgenson Lonza Walkersville, Inc.		
10:00 am — 10:30 am		Morning Break	in the Exhibit Area			
10:30 am — 11:15 am	Multiscale Technologies for Enhancing Cryopreservation Xiaoming "Shawn" He, PhD University of Maryland	Continuous Manufacturing from Perfusion to Capture Step Mike Ford Biogen	Impact of Raw Material Variability on Gene Therapy Modalities Aaron C. Mack, PhD Biogen	Atypical False Positive Observed During In Vitro Virus Assay for MAb Adventitious Virus Screening Serge Monpoeho, PhD Regeneron Pharmaceuticals, Inc.		
11:15 am — 12:00 noon	Biobanking Pluripotent Stem Cells for Research, Diagnostics, and Therapy Glyn N. Stacey International Stem Cell Banking Initiative (ISCBI)		Raw Material Variability in Hydrolysates — Room For Improvement? Chaya M. Kataru, PhD Kerry Bio-Science	Efficacy of Microbicides for Inactivation of Ebola-Makona Virus in an Organic Load Raymond Nims, PhD RMC Pharmaceutical Solutions, Inc.		
12:00 noon — 1:30 pm		Lunch in the Exhibit Area (Poster Session from 1:00 – 1:30 pm)				
1:30 pm — 2:15 pm	Cell Banking — A Requirement in Pharmaceutical Research Linda Fröderberg Roth, PhD AstraZeneca R&D					
2:15 pm – 3:00 pm	Utility of Basement Membrane Extract in the Evaluation of Tumorigenicity Associated with Vaccine Cell Substrates Haruhiko Murata, MD, PhD FDA CBER					
3:00 pm – 3:30 pm	Afternoon Break in the Foyer, Fourth Floor					
3:30 pm – 4:15 pm	Poster Finalist Presentations, Discussion, and Award in Salon B, Fourth Floor					
4:15 pm	Meeting Adjourns					

All of the meals, events, and activities shown in the program are included with your registration fee.