

Hybrid Conference In-Person: College Park Marriott Hotel & Conference Center College Park, Maryland

**Day 1** | Tuesday, May 14

ACTICES

20,

ASSOCIATIO

All times are in Eastern Time Slides not available for distribution are highlighted in RED

8:00 Check In for In-Person Attendees

#### Session 1A: Regulatory Perspective

(All Attendees Welcome) Session Chair: Alexey Khrenov, CMC Reviewer, FDA Location: Vessey Ballroom

- 9:00 Welcome and Logistics
- 9:15 Session Introduction and Audience Survey
- 9:30 Keynote Speaker HCPs Then and Now: What Has Changed, What Remains the Same Nadine Ritter, President, Global Biotech Experts
- 10:15 Morning Break 🎬
- 10:45 A Comprehensive Guidance to Assess Clinical Safety Risks Upon Identification of Individual HCPs, Incorporating Regulatory Considerations and Industry Experience Fenggiang Wang, Global Change Facilitator, Merck and Co. Inc., and Ying Zhang, Director, Sarepta Therapeutics
- 11:15 HCP Control Strategies and Regulatory Requirements *Erika Friedl, Senior Quality Expert, Paul-Ehrlich-Institut*
- 11:45 Q&A Panel Discussion
- 12:15 Lunch
- 12:45 Diamond Exhibitor Hosted Luncheon Talk: Cygnus Technologies Past, Present, and Future of HCP Analytics: Making the Case for Using Advanced Technologies and Methods to Monitor and Control HCP Eric Bishop, Vice President, Research & Development

#### **Session 1B: ELISA Development**

(All Attendees Welcome) Session Chair: Catherine Shoemaker-Ramsey, Associate Director of Analytical Development, Biogen Location: Vessey Ballroom

- 1:45 HEK293 Total Host Cell Protein ELISA Development to Support AAV Gene Therapy Programs *Jianming Kang, Senior Scientist, Regeneron*
- 2:15 Choice of Animal for HCP Antibody Generation and Different ELISA Formats *Midori Greenwood-Goodwin, Principal Scientist, Genentech*
- 2:45 Individual Immunoassay Development to Detect High Risk Host-Cell Protein in Protein Therapeutic Bharathi Govindarajan, Associate Director, Sanofi
- 3:15 Q&A Panel Discussion
- 3:45 Afternoon Break

#### **Session 1C: HCP and Product Stability**

(All Attendees Welcome) Session Chair: Ned Mozier, Retired, Pfizer Location: Vessey Ballroom

- **4:15** Assessing and Mitigating Particle Risks in Drug Products: A Prospective Approach to Identifying and Characterizing Polysorbate-Degrading HCPs *Inn Yuk, Senior Director, Genentech*
- 4:45 Developing a High-Sensitivity Method for Detection and Quantification of Host Cell Proteins in Biopharmaceuticals by Mass Spectrometry: A Company Perspective on an Industry-Wide Challenge Marius Felix, Post-Doc Boehringer Ingelheim Pharma GmbH
- 5:15 Q&A Panel Discussion
- 5:45 Platinum Exhibitor Introduction *TotalLab*
- 6:00 Conference Day 1 Adjourns
- 6:15 TotalLab Hosted Welcome Networking Reception

# Host Cell Protein Conference



May 14-16, 2024

Hybrid Conference In-Person: College Park Marriott Hotel & Conference Center College Park, Maryland

# Day 2 | Wednesday, May 15

#### Session 2A: Bioprocessing

(All Attendees Welcome) Session Chair: Denise Krawitz, Principal Consultant, CMC Paradigms LLC Location: Vessey Ballroom

- 9:00 Session Introduction and Audience Survey
- 9:15 Talk To Be Announced Speaker To Be Announced
- **9:45** Q&A
- 10:00 Morning Break 📛
- 10:30 Host Cell Protein (HCP) Removal in Biomanufacturing Operation by Flow-Through Affinity Chromatography Stefano Menegatti, Associate Professor, NC State University
- 11:00 Applying UHPLC-HRAM MS/MS2 Method to Assess Host Cell Protein Clearance during the Purification Process Development of Therapeutic mAbs *Reiko Kiyonami, Senior Product Applications Specialist, Thermo Fisher Scientific*
- 11:30 Lunch || Location: 2nd Floor (2110/2111/2112)
- 1:00 What You Can Learn from HCP Analysis of 500 Projects Using LC-MS *Victor Chrone, Bioinformatics Scientist, Alphalyse A/S*
- 1:30 Q&A Panel Discussion

All times are in Eastern Time Slides not available for distribution are highlighted in RED

#### Session 2B: HCP Analysis

(All Attendees Welcome) Session Chair: Alexey Khrenov, CMC Reviewer, FDA Location: Vessey Ballroom

- 2:00 USP Resources to Support Host Cell Protein Analysis by Mass Spectrometry *Niomi Peckham, Director, Pipeline Development, United States Pharmacopeia*
- 2:30 Strategy to Harmonize the Quantitation and Reporting of MS-based HCP Results for Process and Method Development Understanding Across Projects and Their Long Lifecycles Brian Gau, Sr. Principal Scientist, Pfizer
- 3:00 Q&A Panel Discussion
- 3:30 Afternoon Break

#### **Session 2C: HCP Challenges**

(All Attendees Welcome) Session Chair: Catherine Shoemaker-Ramsey, Associate Director of Analytical Development, Biogen Location: Vessey Ballroom

- **4:00** From Identification of a Potentially Critical HCP to IMPD and Beyond: Analytical Perspective *Petr Obrdlik, Associate Director, Novartis*
- 4:30 Navigating the Challenges in Evaluation of Residual Host Cell Proteins in Lentiviral Vectors Shilpa Suravajhala, Senior Scientist, bluebird bio, Inc.
- 5:00 Control Strategy for Lentivirus Vectorderived HCPs Impurity in CAR-T Final Drug Product *Roman Drews, Head of Regulatory Affairs, Arcellx, Inc.*
- 5:30 Q&A Panel Discussion
- 6:00 Conference Day 2 Adjourns

### **Diamond** Exhibitor



part of Maravai LifeSciences

## Platinum Exhibitor -



# Host Cell Protein Conference

# BEBPA 301-4 305-55 SEDILDVB

#### All times are in Eastern Time Slides not available for distribution are highlighted in RED

May 14-16, 2024

**Hotel & Conference Center** 

College Park, Maryland

In-Person: College Park Marriott

**Hybrid Conference** 

# Day 3 | Thursday, May 16

- 9:00 In-Person Interest Groups
- 10:10 Morning Break 🍟
- **10:40** In-Person Interest Groups
- 11:40 Lunch Location: 2nd Floor (2110/2111/2112)

#### Session 3A: Mass Spectrometry

(All Attendees Welcome) Session Chair: Ying Zhang, Director, Sarepta Therapeutics Location: Vessey Ballroom

- **1:00** Session Introduction and Audience Survey
- 1:15 HCP Profiling of mAbs and AAV Gene Therapy Vectors using Data Independent LC-MS/MS on Orbitrap Astral MS Jonathan Bones, Principal Investigator and Director, NIBRT
- 1:45 Analysis of Host-Cell Proteins in In-Process Samples by Next-Generation Proteomics Combined with Targeted Absolute Quantitation Sabrina Liberatori, R&D Manager, Omics and Informatics, LONZA
- 2:15 Host Cell Proteome Dynamics: Identification, Quantitation by Mass Spectrometry Nandakumar Sundaramoorthy, Director, Stelis Biopharma
- 2:45 Q&A Panel Discussion
- 3:15 Afternoon Break 👘

#### **Session 3B: Regulatory Discussion**

(All Attendees Welcome) Session Chair: Alexey Khrenov, CMC Reviewer, FDA and Ying Zhang, Director, Sarepta Therapeutics Location: Vessey Ballroom

- **3:45** Wide Ranging Q&A with our Regulatory Participants
- 4:45 Closing Comments & Summary
- 5:00 Conference Concludes

#### **In-Person Interest Groups**

(In-Person Attendees Only)

#### Interest Group 1: USP 1132.1

*Leaders:* Fengqiang Wang, Merck & Co., Ying Zhang, Sarepta Therapeutics and Ned Mozier, Retired, Pfizer *Location:* Meeting Room 1105

The USP <1132.1> interest group will provide an overview of the special considerations on the use of LC-MS/MS methods for HCP identification and quantitation and cover best practices as well as the orthogonality between LC-MS and ELISA methods and how to interpret the differences observed among the two methods. Multiple case studies will be provided to drive an interactive conversation about use of LC-MS at different phases of biopharmaceutical development.

#### Interest Group 2: ELISA Development

*Leaders:* Catherine Shoemaker-Ramsey, Associate Director, Analytical Development, Biogen

- Location: Meeting Room 1101/1102
- 9:00 Introduction and Survey
- 9:10 SureKit<sup>®</sup> Stabilized Host Cell Protein Assay Kits: A User-Friendly Alternative to Traditional HCP ELISAs and Frozen Reagent Storage *Mary Retzlaff, Chief Scientific Officer, Upkara, Inc*
- 9:30 Long-term HCP Antibody Stability Analysis Xing Wang, President, Array Bridge Inc.
- 9:50 Process-Specific Calibrators in a Generic Host Cell Protein ELISA Andrew Hamilton, Senior Scientist Cytiva
- 10:10 Break
- 10:40 Enhancing Efficiency and Flexibility in Host Cell Protein ELISA Through End-to-End Automation Using Hamilton Systems Daniela Olszova, Research Scientist, Gilead Sciences Inc.
- 11:00 Q&A Panel Discussion

# Host Cell Protein Conference

## May 14-16, 2024

**Hybrid Conference** In-Person: College Park Marriott **Hotel & Conference Center College Park, Maryland** 

## Posters

ASSOCIAL

20,

OPHARMACEUTICAL

The TotalHCP Project: Building a More Comprehensive Understanding of HCPs Using Software

ENERG

Steven Dodd, Head of Sales and Business Development, TotalLab Ltd.

SECTICES

LC-MS for Improving Decision Making and Mitigating Risk in Process Development Henry Fisher, R&D Scientist, Labcorp

Comprehensive Assessment of Immunogenicity Risk of Host Cell Proteins in Biologics Using in silico and in-vitro Methods Kirk Haltaufderhyde, Scientist, EpiVax Inc.

MS Quantification of Lipases in Biosimilars and **Process Changes** Jared Isaac, Associate Director, Cygnus **Technologies** 

Improved Analytical Testing of HCP Impurities with an Automated Immunoassay Platform Ellen Lee, Field Application Scientist, Gyros Protein Technologies

Characterization and Comparison of Host Cell Protein Profiles Derived from Two Host Cell Lines Guojie Mao, Principal Scientist, Lonza

All times are in Fastern Time Slides not available for distribution are highlighted in RED

Evaluation of Antibody Affinity Extraction and Native Digestion as Sample Preparation Methods for LC-MS Detection of HCPs in Drug Substance Stephen Stahlschmidt, Lab Technician II, Cygnus Technologies

Development of a Specific HCP-Assay for the Evolving Chicken Embryo Fibroblast (CEF) **Expression System** 

Thorsten Strahl, GmbH Supervisor Protein and Olaf Stamm, Technical Business Development Director, Charles River Laboratories Germany GmbH

A Case Study on Development of a Platform Process-Specific CHO HCP ELISA Mahima Tank, Senior Scientist, Takeda

Pharmaceuticals

Evaluation of Search Engines for HCP Analysis by Mass Spectrometry Kevin Van Cott, Associate Professor, University of Nebraska

Custom Automated CHO HCP ELISA-Like Technology for Routine Sample Testing McKenna Vettori, Senior Scientist, GSK

Our Busines

# **Gold** Exhibitors









**Silver** Exhibitors











