

Cell Line Development & Engineering

June 12-14, 2018
Park Central Hotel,
San Francisco, CA

THE DEFINITIVE EVENT REVOLUTIONIZING CELL LINE DEVELOPMENT THROUGH DISRUPTIVE TECHNIQUES AND INNOVATIVE SCIENCE

Practical solutions to reduce development timelines, increase efficiencies, improve product quality, and realize greater productivity from new and established cell lines

Keynote Presenters



Martina Baumann, PhD
Researcher
ACIB - Austrian Centre of
Industrial Biotechnology



Mara Pavel-Dinu
Senior Scientist
Stanford University



Elizabeth Harker Scheideman, PhD
Vaccine Production Program
VRC/NIAID/NIH



David James
Professor of Bioprocess Engineering,
Chemical and Biological Engineering,
University of Sheffield



Pam Hawley-Nelson
Associate Director & Development,
Head of Cell Biology in Process Cell Culture,
MedImmune

Co-located with
**Next Generation
Protein Therapeutics &
Bioconjugates Summit**

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#CELLLINE





Preliminary Agenda

Tuesday, June 12th, 2018

7:00 *Breakfast & Registration*

8:00 **Chairman's Remarks**

Developments in Host Cell Engineering to Improve Quality & Growth

- 8:15 **Two Cytoplasmic Ubiquitin E3 Ligases and an ER Protease Mediate ER-associated Degradation of Unfolded Antibody Heavy Chains**  
Shahram Misaghi, Senior Scientist, Genentech
- 8:45 **Enhancement of Cell Line Productivity by Cell Engineering, Media Additives and Vector Design**  
Boaz Tirosh, PhD, Professor of Pharmacology, Head of lab of Stress Signaling, The School of Pharmacy, The Hebrew University of Jerusalem
- 9:15 **Late Breaking Presentation**
Alan Dickson, Professor of Biotechnology, School of Chemical Engineering & Analytical Sciences, University of Manchester
- 9:45 *Networking Refreshment Break in Poster & Exhibit Hall*

Applications in Genome Editing in Cell Line Development

- 10:30 **CRISPR/Cas9 Platform Development for Drug Target Discovery and Validation** 
Benjamin Haley, Ph.D., Senior Scientist, Department of Molecular Biology, Genentech, Inc.
- 11:00 **Engineering CHO Cells with Enhanced Traits with Multiplex Genome Editing**  
Nathan Lewis, Ph.D., Assistant Professor, Department of Pediatrics, University of California, San Diego
- 11:30 **Improving Biopharmaceutical Production of CHO Cells using Targeted Genome Engineering Tools** 
Kevin Kellner, M. Sc., National Institute for Cellular Biotechnology, Dublin City University
- 12:00 **SPOTLIGHT PRESENTATION: An All-in-one System for Single Cell Printing and Whole Well Imaging in Cell Line Development**  
Ian Taylor, Ph.D., Director, Solentim
- 12:30 *Luncheon in Luncheon & Exhibition Hall*
- 1:45 **Advanced Technologies for Reconstitution of Multi-Protein Complexes**
Arnaud Poterszman, Ph.D., Research Director, IGBMC (CNRS/INSERM/UdS)
- 2:15 **Late Breaking Presentation**
- 2:45 **SPOTLIGHT PRESENTATION: Novel Transposase Tools for Cell-Line Engineering** 
Ferenc Boldog, Director, ATUM (formerly DNA2.0)
- 3:15 *Networking Refreshment Break*

Plenary & Keynotes

- 4:00 **New Parts and Systems for CHO Cell Synthetic Biology**
David James, Ph.D., Professor of Bioprocess Engineering, Chemical and Biological Engineering, University of Sheffield
- 4:30 **Implemented Automation Cloning Processes and the Regulatory Implications**
Pam Hawley-Nelson, Medimmune
- 5:00 **Genomic Stability of CHO – Karyotype Variance of Host Cell Lines, Recombinant or Selected Cell Pools and Subclones** 
Martina Baumann, Ph.D., Researcher, ACIB - Austrian Centre of Industrial Biotechnology
- 5:30 *Networking Reception*

Wednesday, June 13th, 2018

7:00 *Registration and Coffee*

Demonstrating and Questioning the Importance of Clonality

- 8:00 **Opening Remarks**
- 8:15 **Late Breaking Presentation**
Karin Anderson, Ph.D., Research Fellow, Pfizer BioTherapeutics Pharmaceutical Sciences
- 8:45 **LIVCA and Cell Banking Characterization**
Benson Li, Associate Principal Scientist, Merck
- 9:15 **Rethinking Clonality Using Modeling Approaches**
Jennitte Stevens, Ph.D., Director, Cell Line Development, Amgen Inc.
- 9:45 *Refreshment Break*
- 10:30 **Limitations of Subcloning as a Tool to Characterize Homogeneity of a Cell Line and CHO Cell Genome Fluidity**
John Scarecelli, Ph.D., Principal Scientist, BioProcess Research and Development, Cell Line Development, Pfizer
- 11:00 **Single Cell Cloning: Development, Application and Characterization of a Fluorescent Assisted Single Cell Cloning Protocol** 
John A. Follit, Cell Line Development, ImmunoGen, Inc.

Preliminary Agenda

Wednesday, June 13th, 2018 (continued)

Acceleration of Early Development

- 11:30 **BESTcell: Fast Cell Line Development for CHO Clones With High-Yield Protein Production Using Euchromatin-Containing BAC Expression Vectors** **CASE STUDY**
Anton Bauer, PhD MBA, COO, The Antibody Lab GmbH
- 12:00 **SPOTLIGHT PRESENTATION: Glycans Before Lunch: Rapid N-Glycan Sample Preparation Workflows for Liquid Chromatography and Capillary Electrophoresis Platforms** **PROzyme** Advancing Glycosciences
John Yan, Applications Scientist, ProZyme
- 12:30 *Lunch & Exhibit Hall*

Acceleration of Early Development Continued

- 1:45 **Reducing Timelines Through Single Cell Analysis and Predictive Modeling to Enable Rapid Decision Making**
Cai Guo, Scientist, Cell Line Development, Amgen Inc.
- 2:15 **Novel Technologies Enable to Push the Cell Line Development Process Close to the Biological Speed Limit**
David Ausländer, Ph.D., Principal Scientist, Cell Line Development; Novartis, Switzerland

Cell Line Consideration for Bioprocessing

- 2:45 **What Tools are Necessary for a Complete Transient Protein Production Toolbox?**
Richard Altman, MS, Scientist, Protein Technologies, Amgen
- 3:15 *Refreshment Break*
- 3:45 **Late Breaking Presentation**
James Lambropoulos, Biogen

Cell Line & Host Cell Engineering Technologies

- 4:15 **Effect of RNA Epigenetics on Recombinant Protein Production** **NEW DATA**
Niall Barron, Professor, Irish National Institute for Bioprocessing Research and Training
- 4:45 **SPOTLIGHT PRESENTATION**
- 5:15 *Networking Reception*

Thursday, June 14th, 2018

- 7:00 *Registration and Coffee*
8:00 **Opening Remarks**

Opening Keynotes

- 8:00 **Genome Editing of Stem Cells** **NEW DATA**
Mara Pavel-Dinu, Ph.D., Senior Scientist, Stanford University
- 8:30 **Improvements in Clone Screening and Production for Monoclonal Antibodies in CHO-DG44** **NEW DATA**
Elizabeth Harker Scheideman, Ph.D., Vaccine Production Program, VRC/NIAID/NIH
- 9:00 **SPOTLIGHT PRESENTATION**
- 9:30 *Networking Refreshment Break*

Cell Line & Host Cell Engineering Technologies Continued...

- 10:00 **Late Breaking Presentation** **NEW DATA**
Eric Lee, Biogen
- 10:30 **Proteomic and Phosphoproteomic Analysis of CHO Cell Productivity** **NEW DATA**
Susan Sharfstein, Ph.D., Professor of Nanobioscience, SUNY Polytechnic Institute, College of Nanoscale Science and Engineering
- 11:00 **SPOTLIGHT PRESENTATION**

High Throughput Platforms for Cell Line Development

- 11:30 **Cumate-inducible CHO Platform for Stable Pool and Stable Clone Generation**
Yves Durocher, Ph.D., Section Head, Mammalian Cell Expression - NRC Human Health Therapeutics Research Center, National Research Council Canada
- 12:00 **Automated Cell Line Development to Increase Efficiency** **NEW DATA**
David Shaw, Senior Scientist, Early Stage Cell Culture, Genentech
- 12:30 *Luncheon in Poster & Exhibit Hall*
- 1:30 **High Stringency Selection of High Producer CHO Cells using a Metabolic Selection Marker** **NEW DATA**
Mark Trautwein, Expression Technologies, Bayer
- 2:00 **Approaches to Increasing Cell Line Development Throughput** **CASE STUDY** **NEW DATA**
Rob Ballinger, Development Associate III, Early Stage Process Development, Alexion Pharmaceuticals, Inc.
- 2:30 **SPOTLIGHT PRESENTATION**
- 3:00 *Networking Break*

Omics In Cell Line

- 3:30 **Late Breaking Presentation**
Mark Smales, Professor of Industrial Biotechnology, University of Kent (*invited*)
- 4:00 **Knowledge Based Multi-Omics Integration And Systems Analysis of CHO Cells For Next Generation Cell Line Development**
Dong Yup Lee, PH.D. Assistant Professor/Senior Scientist, Chemical and Biomolecular Engineering, National University of Engineering
- 4:30 **Late Breaking Presentation**

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