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Journal Articles


Production of Erythrocytes from Directly Isolated or Delta1 Notch Ligand Expanded CD34+ Hematopoietic Progenitor Cells: Process Characterization, Monitoring and Implications for Manufacture. Cytotherapy, 2013, 15(9), 1106-1117.

High-Throughput Screening of Multiple Protein Complexes. American Laboratory Online, 2013, July 04.


Chhatre S, 2013
Reducing the Cost of Manufacturing mAb Based Therapeutics using Automated Microscale Bioreactors. Pharm Tech Japan, 2013.

Glaser V, 2012

Hambor JE, 2012


Conference Presentations

Developing an Effective Scale Down, High Throughput Approach for Bioprocess Development.

Lange I, 2014.
Microbioreactor for Efficient Process Development with Specific Product Quality.
Cell Line Development and Engineering, Vienna, Austria, 10-14 February 2014.

Driving Cell Line Engineering for Identification of Superior Cell and Product Quality.
Cell Line Development and Engineering, Vienna, Austria, 10-14 February 2014.

Hussain AI, 2014.
Evaluation of Clonepix Based 293 Cell Line Development Platform for Vaccine Development.
Cell Line Development and Engineering, Vienna, Austria, 10-14 February 2014.

Scale-Up And Optimisation of a Transient Transfection Platform for Novel Virus-Like Particle and Nanoparticle Vaccines.
Cell Line Development and Engineering, Vienna, Austria, 10-14 February 2014.

ambr™ & ambr250™ - Proven Bioreactor Systemsfor Screening Andoptimization in Cell Culture and Fermentation.
Cell Line Development and Engineering, Vienna, Austria, 10-14 February 2014.

Physical Characterisation of the Microbioreactor ‘ambr‘ and Implications for animal and Stem Cell Culture.
Scale-up and Manufacturing of Cell-Based Therapies III, San Diego, USA, 5-9 January 2014.

Development of a Bioreactor Process for the Production of NK-92 Cells for Allogeneic Immunotherapies.
Scale-Up and Manufacturing of Cell-Based Therapies III, San Diego, USA, 5-9 January 2014.

A Simplified Microbioreactor Culture Model to Mimic Perfusion.

Lange I, 2013.

Challenges in Cell line Development for NBEs and Biosimilars.
Cell Line Development and Engineering, La Jolla, USA, 20-22 June 2013.

Ramez S, 2013.
High Throughput Bioreactor Mimetic in Early and Late Stage Process Development.
245th ACS National Meeting & Exposition, New Orleans, USA, 7-11 April 2013.

Kaufmann H, 2013.
Evolving strategies for Successful Development of Biosimilar Manufacturing Processes.
Bioprocess International European Conference and Exhibition, Dusseldorf, Germany, 17-18 April 2013.

Werner RG, 2013.
Guiding Principles in Process Development: Manufacturability and Economy.
Bioprocess International European Conference and Exhibition, Dusseldorf, Germany, 17-18 April 2013.

Dean G, 2013.
Improving Predictability: Smarter Cell Line Development.
Bioprocess International European Conference and Exhibition, Dusseldorf, Germany, 17-18 April 2013.

Early Process Development Integrating Chemically Defined Supplements and Feeds.
Bioprocess International European Conference and Exhibition, Dusseldorf, Germany, 17-18 April 2013.

AMBR: An Advanced Tool for Automated Optimization of Cell Culture for Biotherapeutics.
Bioprocess International European Conference and Exhibition, Dusseldorf, Germany, 17-18 April 2013.

Improving Control and Reducing Bioprocess Variability Early in Development.
Bioprocess International European Conference and Exhibition, Dusseldorf, Germany, 17-18 April 2013.

Engineering an Expression Platform for Specific Product Quality.
Cell Culture World Congress, Munich, Germany, 26-28 February 2013.

Cell Culture World Congress, Munich, Germany, 26-28 February 2013.

Early Process Development Integrating Chemically Defined Supplements and Feeds.
Cell Culture World Congress, Munich, Germany, 26-28 February 2013.

Kaufmann H, 2013.
Implementing Flexible, Fully Disposable Up- and Downstream Manufacturing.
Cell Culture World Congress, Munich, Germany, 26-28 February 2013.

Poulsen BR, 2013.
Cell Culture World Congress, Munich, Germany, 26-28 February 2013.

The Physical Characterisation of a Microscale Parallel Bioreactor Platform, ambr™, and the Culture of an Industrial CHO Cell Line Expressing an IgG.
Cell Culture World Congress, Munich, Germany, 26-28 February 2013.

Understanding the Strategies for Delivering Consistent Operational Excellence.
Cell Culture World Congress, Munich, Germany, 26-28 February 2013.

A Fully Automated Approach to Cell Line Development.

Automation in Cell Line Development and Early Integration of Process Development Aspects in Clone Screening and Selection.

Simplifying a Cell Culture Platform Process Using Automated Micro-Scale Bioreactors.
PEPTALK, Palm Springs, USA, 21-23 January 2013.

Shi S, 2013.
A High-Throughput Automated Platform for the Development of Manufacturing Cell Lines for Protein Therapeutics.
PEPTALK, Palm Springs, USA, 21-23 January 2013.
Automation to Increase Quality in Cell Line Selection.
ESACT UK 23rd Annual Meeting, Loughborough, UK, 9–10 January 2013

Perspectives on Cell Culture for Biopharmaceutical Development.
ESACT UK 23rd Annual Meeting, Loughborough, UK, 9–10 January 2013

Evaluating Use of Micro Scale Mammalian Cell Culture in Process Development.
Micro Scale Bioprocess Development, Stevenage, UK, 14 November 2012

Tolstrup AB, 2012.
Bioprocessing Summit, Boston, USA, 20–23 August 2012.

Fully-Automated Approach to Cell Line Development.
The Bioprocessing Summit, Boston, USA, 20–23 August 2012.

Speed and Flexibility – Key to Success in Biopharmaceutical Process Development and Clinical Supply.

Bioprocessing Summit, Boston, USA, 20–23 August 2012.

From Micro to Small Scale Fermentation – Combining Cell Line and Process Development.
Bioprocessing Summit, Boston, USA, 20–23 August 2012.

Biorreactor Scaling Up and Down: How to Perform Successful Process Development.
Bioprocessing Summit, Boston, USA, 20–23 August 2012.

Characterisation of an Automated Bioreactor with CHO Clone Ranking, Process Optimisation and DoE.


Using the ambr™ System as a Clone Screening Tool. Cell Line Development and Engineering, San Francisco, USA, 6–8 June 2012.


Glen K, 2012
An Optimisation Tool (ambr) for Defining the Critical to Quality Production Parameters and Their Specifications for Large Scale Production of Erythrocytes from Human Cord Blood Derived Hematopoietic Stem Cells. Scale-Up and Manufacturing of Cell-Based Therapies, San Diego, USA, 11–13 January 2012.

Moore R, 2012

Automation in Cell Line Development to Select Suitable Clones for Manufacturing of Biopharmaceuticals.

Using a Scale Down Automated Micro-Bioreactor System for Manufacturing Cell Line Selection.

Mason M, 2012.
Automating the Process Development Workflow

Scaling Down Bioreactor Process Development: Comparison of Micro-bioreactor and Bench Scale Solutions.
ELRIG High Throughput Bioprocess Development, Warrington, UK, 22 June 2011.

Zoro B, 2011.
ambr Snapshot: Overview, Applications and Field Data.
ELRIG High Throughput Bioprocess Development, Warrington, UK, 22 June 2011.

Lewis G, 2011.
Scale Down Approaches to CHO Clone Selection and Process Development Facilitating High-Level mAb Expression.

The Development of a 24/48 Vessel Automated Micro–Scale Bioreactor and Comparison to Bench-Scale Bioreactors.

Scale Down Approaches to Facilitate CHO Clone Development for High-Level mAb Expression.

The Development of a 24/48 Vessel Automated Micro–Scale Bioreactor and Comparison to Bench-Scale Bioreactors.

The Development of a 24/48 Vessel Automated Micro–Scale Bioreactor and Comparison to Bench-Scale Bioreactors.

Scale Down Approaches to Facilitate CHO Clone Development for High-Level mAb Expression.

Faster, Cheaper, Better; How Novel Approaches are Helping Develop Biotherapeutics for Tomorrow.
Modern Challenges in Therapeutic Protein Production, Welwyn Garden City, UK, 11 June 2010.
**Swihart JM, Bure K, Drake R, 2013**

Novel Platform Technologies for Scaled Down Process Development and Optimisation for Regenerative Medicine

World Conference on Regenerative Medicine, Leipzig, Germany, 23-25 October 2013

**Le Reverend G, Malphettes L, Delouvroy F, 2013.**

Evaluation of the Advanced Micro-Scale Bioreactor (AMBR™) as a High Throughput Tool for Culture Process Development.

ESACT 23rd Annual, Lille, France, 23-26 June 2013.


ESACT 23rd Annual, Lille, France, 23-26 June 2013.

**Mayer-Bartschmid M, Clarkson M, Zoro B, Groth M, Schubel A, 2013.**

New Improved Automation of the ambr™ Microbioreactor Implemented in a Clone Selection Workflow.

ESACT 23rd Annual, Lille, France, 23-26 June 2013.


ESACT 23rd Annual, Lille, France, 23-26 June 2013.


State of the Art Media Development and Implementation to Enable Higher Titer in Mammalian Biopharmaceutical Processes.

ESACT 23rd Annual, Lille, France, 23-26 June 2013.


Developing a Scalable, High Performance Bio-Production Process in Minimal Time.

ESACT 23rd Annual, Lille, France, 23-26 June 2013.

**Mason M, Higgins L, Dimitriadou E, Haines A, Alam I, Crowley J, 2013.**


ESACT 23rd Annual, Lille, France, 23-26 June 2013.

**Chaturvedi K, O’Brien T, Granciicione E, Berudo C, Brooks JW, 2013**

Application of Multiple Culture Systems for Selection of Scalable Chemically Defined Supplements and Production Processes.

Cell Line Development and Engineering, La Jolla, USA, 20-22 June 2013.

**Chen P, Ojifinni I, Zheng G, Singh M, 2013**

Bioprocess Development and Titer Optimization with Use of High Throughput AMBR Micro-Bioreactor System.

Cell Line Development and Engineering, La Jolla, USA, 20-22 June 2013.

**Chaillet M, Garzoniti F, You-Rose S, Zoro B, Berger I, 2013**

MultiBac Expression System: Comparison of Growth and Multiprotein Production in Shake Flask and Automated Miniature Bioreactor (ambr™) Cultures.

ISBiotech, Rosslyn, USA, 11-15 March 2013.

**Gutshall L, Jirka J, Collie G, Morse B, 2013**

Application of the TAP Advanced Microbioreactor System to HEK293 Transient Protein Expression.

PEPTALK, Palm Springs, USA, 21-23 January 2013.

**Poposki J, Martin S, Dolnikova J, Majors B, Chiang G, 2012**

High-Throughput Cell Line Development Using Early Screening Methods and Product Quality Assessment.

Cell Line Development and Engineering, San Francisco, USA, 6-8 June 2012.


Advanced Microscale Bioreactor, ambr™, for the Rapid Screening of Biopharmaceutical Producing Cell Lines.

Cell Culture Engineering XIII, Scottsdale, USA, 22-27 April 2012.

**Carpio M, Patel S, 2012.**

Evaluation of the Advanced Microscale Bioreactor (ambr™) System for Use in Production Cell Line Development.

Cell Culture Engineering XIII, Scottsdale, USA, 22-27 April 2012.

**Zupke C, 2012.**

Evaluation of the ambr™ Micro Reactor System.

Cell Culture Engineering XIII, Scottsdale, USA, 22-27 April 2012.

**Tait AS, 2012.**


Cell Culture Engineering XIII, Scottsdale, USA, 22-27 April 2012.

**Carpio A, Patel, 2011.**

Evaluation of the Advanced Microscale Bioreactor (ambr™ System for Use in Production Cell Line Development.

Bioprocess Summit, Boston, USA, 22-25 August 2011.

**Yau SY, Lee K, Zoro B, 2011.**

Steady State and Dynamic Control Performance of the ambr™ Automated Micro Bioreactor System in a CHO Cell Batch Culture.

Bioprocess International, Nice, France, 6-7 April 2011.

**Moses S, Manahan M, Ling WL, 2011.**


PEPTALK, San Diego, USA, 10-14 January 2011.

**Lugg R, Lewis G, Hatton D, 2010.**

A New Advanced Microscale Bioreactor Technology for Cell Line and Process Development.
