

5th Laupheim Biotech Days and Young Scientist Cell Culture Biotechnology Retreat

20th and 21st September 2018, Laupheim, Germany

Poster presentations

Topic: Cell line development

Controlled integration site mapping by NGS-based targeted locus amplification and regular PCR

Katharina Koether, Isabel Proneth, Janet Köhler, Jadranka Koehn
Rentschler Biopharma SE, Laupheim Germany

CRISPR/CAS9 mediated knockout of microRNAs for precise cell line engineering

Nadja Raab¹, Kerstin Alt², Sven Mathias¹, René Handrick¹, Vaibhav Jadhav³, Kerstin Otte¹
¹ University of applied Sciences Biberach, Biberach, Germany
² Genetikum, Neu-Ulm, Germany
³ BOKU, Vienna, Germany

Generation of recombinant CHO TurboCell™ lines for the production of PASylated human DNase I

Serge M. Stamm⁴, Michaela Gebauer⁵, Roland Wagner⁴, Arne Skerra^{5,6}
⁴ Rentschler Biopharma SE, Laupheim, Germany
⁵ XL-protein GmbH, Freising, Germany
⁶ Technische Universität München, Freising, Germany

TurboCell™ line development: 10 weeks from DNA to Top4 clone decision

Britta Reichenbächer, Brigitte Anic, Stefanie Oeding, Jadranka Koehn
Rentschler Biopharma SE, Laupheim, Germany

Topic: Upstream processing

Analysis of product quality attributes by MIR spectroscopy

Anne Steinkämper⁷, Ralf Masuch⁸, Kurt Russ⁷
⁷ Rentschler Biopharma SE, Laupheim, Germany
⁸ Micro-biolytics GmbH, Esslingen, Germany

High cell density cryopreservation for upstream process intensification using frozen seed train intermediates

Mona Bausch, Caroline Ströder, Jochen B. Sieck
Merck System R&D, Merck Life Science, Darmstadt

High-density cell banking for intensified seed trains

Marvin Kadisch, Lisa Weißer, Kurt Russ
Rentschler Biopharma SE, Laupheim, Germany

In vivo quantification of mitochondrial shuttle activities via 13C flux analysis in mAb producing CHO cells

Lisa Junghans, Attila Teleki, Andy Wiranata Wijaya, Max Becker, Michael Schweikert, Ralf Takors
University of Stuttgart, Stuttgart, Germany

Moving from a fed-batch process to perfusion mode using a semi-continuous approach in shake flasks and an automated small scale bioreactor

Sabrina Janoschek⁹, Markus Schulze⁹, Gerben Zijlstra¹⁰, Gerhard Greller⁹, Jens Matuszczyk⁹
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Single-use or multi-use – how proper does it work in small-scale?

Stefan Wieschalka¹¹, Janine Seidemann¹¹, Anja Schäfer¹¹, Stefan R. Schmidt¹²
¹¹ Rentschler Biopharma SE
¹² BioAtrium AG, Visp, Switzerland

Topic: Downstream processing**Impurity precipitation for mAb capture optimization**

Silke Bastian, Coralie Tanzer, Anja Trapp, Jadranka Koehn
Rentschler Biopharma SE, Laupheim, Germany

Scale-up of an affinity chromatography to 1000 L manufacturing scale using Space-Time Optimized Resin and Yield (STORY) approach

Marlene Holder, Thilo Grob, Alexander Faude, Anja Trapp, Markus Blender, Thomas Ziglasch
Rentschler Biopharma SE, Laupheim, Germany

Take full advantage of caprylic acid-induced impurity precipitation in MAb purification

Anja Trapp, Natalie Hörold, Sabine Faust, Alexander Faude
Rentschler Biopharma SE, Laupheim, Germany

Taking advantage of the virus inactivating effect in caprylic acid-based impurity precipitation for downstream processes

Sabine Faust, Natalie Hörold, Sven Schubert, Anja Trapp, Alexander Faude
Rentschler Biopharma SE, Laupheim Germany

Virus clearance by salt-tolerant anion exchange chromatography in flow-through mode

Verena Vollmar¹³, Sabine Faust¹³, Anja Trapp¹³, Egbert Müller¹⁴, Benjamin Zeitler¹⁵, Alexander Faude¹³

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