

Forum BioTech - BioPharma

August 15, 2019, 9:00 – 16:30

Max-Delbrück-Centrum für Molekulare Medizin

Kommunikationzentrum, Robert-Rössle-Str. 10, 13125 Berlin

Join our free scientific networking forum and discuss with us the future trends in Biotech and Biopharma. Benefit from a comprehensive day covering innovations in R&D, manufacturing and analytics of biopharmaceuticals. Selected experts from Biotech and Biopharma business units represent our premier brands Thermo Scientific, Applied Biosystems, Invitrogen and Fisher Scientific.

Agenda

09:00-09:30	Registration	
09:30-09:50	Welcome and Introduction	Matthias Saner
09:50-10:15	Keynote – Trends in Biotech	Matthias Bach, BIO Deutschland
10:15-12:00	Part I: Cell Engineering & Analysis	
	Cutting edge tools for mammalian cell engineering	Arnd Dankesreiter
	Cell protection in your incubator, Cell Locker	Rainer Harzenetter
	Prime Flow – using flow cytometry to detect your RNA	Julian Kwoczek
	3D Cell Culture Models: Developing better techniques for culture and analysis	Katja Hufschmid
	Interactive Panel discussion	ALL
12:00-13:00	Networking Lunch	

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Agenda

13:00-14:30 Part II: Biopharmaceutical Development

Biopharmaceutical purification - Overcoming challenges in downstream processing of new molecule formats Gregor Richter

Multi Attribute Method for advanced biopharmaceutical development Marc Günder

Biopharmaceutical characterization: Peptide Mapping, Intact Proteins, Glycan Analysis, Antibody Drug Conjugates, Host Cell Proteins Alexander Ley

Rapid Mycoplasma testing for ATMPs Andreas Dorn

Interactive Panel discussion ALL

14:30-15:00 Networking Break

15:00-16:00 Part III: Lab Automation & Digitalization

The evolution of lab automation Dieter Wagner

Sample prep in lab automation Andreas Koch

Platform for Science™ within Digital Science Alec Westley

Interactive Panel discussion ALL

16:00 Wrap-up Matthias Saner

16:15 Open Networking

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Speaker – Aug 15, 2019	Title / Division
Matthias Saner	Director Corporate Accounts, Thermo Fisher Scientific
Matthias Bach	Projektmanager Marketing, BIO Deutschland
Part I: Cell Engineering & Analysis	
Arnd Dankesreiter	Sr. Technical Sales Specialist, Bioscience Division
Rainer Harzenetter	Teamleader Product Sales, Laboratory Product Division
Julian Kwoczek	Product Specialist, Bioscience Division
Katja Hufschmid	Sr. Technical Sales Specialist, Bioscience Division
Part II: Biopharmaceutical Development	
Gregor Richter	Sr. Sales Representative, Bioproduction Division
Marc Gunder	Expert Sales Support EMEA Biopharma, Chromatography and Mass Spectroscopy Division
Alexander Ley	Commercial Development Manager EMEA Life Science, Chromatography and Mass Spectroscopy Division
Andreas Dorn	Sr. Technical Sales Specialist Pharma Analytics, Bioproduction Division
Part III: Lab Automation & Digitalization	
Dieter Wagner	Product Manager, Chromatography and Mass Spectroscopy Division
Andreas Koch	Product Specialist, Bioscience Division
Alec Westley	Sr. Manager, Digital Science

Abstracts: Forum BioTech - BioPharma

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Part I: Cell Engineering & Analysis

Cutting edge tools for mammalian cell engineering:

Arnd Dankesreiter, Sr. Product Manager, Bioscience Division

The ability to target and cut a user-defined genomic locus is a long sought goal with the potential to enable genome engineering and genetic regulation of diverse cell types. The CRISPR/Cas9 system has made major impact over the past years in the field of genome editing. GeneArt® CRISPR solutions offer a simple-to-use tool for this application, and are completed by the GeneArt® TALENs solutions to allow efficient Knock out and Knock in of any genomic locus, as well as functional genetic screening.

Cell protection in your incubator – Cell Locker

Rainer Harzenetter, Teamleader Product Sales, Laboratory Product Division

The Thermo Scientific™ Cell Locker™ System provides security for your most sensitive cells through the use of protected chambers. Up to six autoclavable polycarbonate chambers divide the CO₂ incubator allowing you to isolate individual cell types or projects to help prevent cross contamination.

PrimeFlow - using flow cytometry to detect your RNA

Julian Kwoczek, Product Specialist, Bioscience Division

Using flow cytometry, lineages as well as the rarest cell populations can be detected by using numbers of different antibodies. Nevertheless, for some targets, availability of antibodies is limited and therefore can be still a challenge. With the unique PrimeFlow™ RNA assay, nucleotides e.g. viral RNA in infected cells can be detected, and even kinetic studies can be performed.

3D Cell Culture Models: Developing better techniques for culture and analysis

Katja Hufschmid, Sr. Technical Sales Specialist, Bioscience Division

3D culturing is a new and rapidly developing field of research. The talk is to provide an overview what 3D cell culture is about, which opportunities this technology provides but also which challenges some researchers (including our own R&D teams) are facing plus some options to come around them. This presentation also provides an overview over components which are suitable for 3D culturing already right now.



Part II: Biopharmaceutical Development

Biopharmaceutical purification - Overcoming challenges in downstream processing of new molecule formats.

Gregor Richter, Sr. Bioproduction Sales Representative, Bioproduction Division

Overcoming challenges in downstream processing of new molecule formats. Removing product and process related impurities with innovative, tunable affinity chromatography sorbents and high performance polishing resins.

Multi Attribute Method for advanced biopharmaceutical development

Marc Gunder, Expert Sales Support EMEA Biopharma, Chromatography and Mass Spectroscopy Division

As an element of regulated good manufacturing process, the determination and monitoring of critical quality attributes (CQAs) for a biotherapeutic compound, including monoclonal antibodies, is essential for lot release and acceptance with regulatory agencies¹. Typically, a battery of separation techniques including HILIC, SEC, CEX, and rp-HPLC are used in conjunction with UV spectroscopy, NMR, and even with blotting techniques like ELISA to comprehensively measure these attributes and assess purity. The multi-attribute method, developed by Rich Rogers at Amgen, depends upon accurate mass and high resolution mass spectrometry to provide an additional dimension of separation that yields most of the same information in a single method and with greater specificity for important attributes providing a deeper knowledge of the product.

Biopharmaceutical characterization: Peptide Mapping, Intact Proteins, Glycan Analysis, Antibody Drug Conjugates, Host Cell Proteins

Alexander Ley, Commercial Development Manager EMEA Life Science, Chromatography and Mass Spectroscopy Division

Biopharmaceutical drug products can require many different orthogonal analyses, to ensure they are safe and fit for purpose. This talk discusses the key analytical methods in use today and their application in the biopharmaceutical drug development pipeline.

Rapid Mycoplasma Testing for ATMPs

Andreas Dorn, Sr. Technical Sales Specialist Pharma Analytics, Bioproduction

It is a regulatory requirement to check ATMPs for adventitious agents such as Mycoplasma. Since the 28 day PTC test is not feasible to use the need for a rapid test is evident. Here we present possible solutions to implement this assay and give guidance for regulatory approval.



Part III: Lab Automation & Digitalization

The evolution of lab automation

Dieter Wagner, Product Manager, Chromatography and Mass Spectroscopy Division

In the past, implementing laboratory automation was often a long and expensive process that required the researchers and scientists involved to possess a high level of automation expertise. As a result, the use of automation was limited to laboratories performing very high-throughput applications, the solutions were lacking flexibility, and the return on investment frequently did not live up to expectations. In this presentation we will look at how recent advancements in laboratory automation have addressed these limitations by delivering solutions that are versatile, reconfigurable, and that allow for much easier deployment and operation. We'll review the tools themselves, as well as examples of how they are delivering ROI for customers performing a variety of workflows.

Sample prep in lab automation

Andreas Koch, Product Specialist, Bioscience Division

The flexibility of the Thermo Scientific™ KingFisher System in terms of sample type and sample preparation with magnetic beads in respect of integration into an automation workflow.

Platform for Science™ within Digital Science

Alec Westley, Sr. Manager, Digital Science

The discovery of a life transforming therapy requires the generation of large sums of data. Making sense of this data and determining what is vital to support a novel discovery is time consuming and requires collaboration. Thermo Scientific™ Platform for Science™ software utilizes powerful data visualization tools and provides collaboration and integration capabilities to drive scientific research.

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