

## Forum BioTech - BioPharma

September 19, 2019, 10:00 – 17:00

Technologiepark Heidelberg, Im Neuenheimer Feld 582, 69120 Heidelberg

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

### Agenda

10:00-10:30	Registration	
10:30-10:45	Welcome and Introduction	Matthias Saner
10:45-11:00	Biotech at the Technologiepark Heidelberg	André Domin Technologiepark HD
11:00-11:45	<b>Part I: Let us talk about Money - Financing, Leasing, Renting</b>	
	Extend your resources, elevate your sciences with Thermo Fisher Financial Services	Ralf Kern, Manuela Habeker
	Interactive panel discussion on financing, leasing, renting	ALL
11:45-13:00	<b>Part II: Biopharmaceutical Development</b>	
	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
	Interactive Panel discussion	ALL
13:00-13:30	Networking Lunch	



## Agenda

### 13:30-15:30 Part III: Cell Engineering & Analysis

Cutting edge tools for mammalian cell engineering Arnd Dankesreiter

Cell protection in your incubator Rainer Harzenetter

3D Models: Developing better techniques for culture and analysis Tim Wessel

3D cell culture analysis Gerhard Zimmermann

Multiplex qPCR solutions with TaqMan – Benefits and challenges Baldur Eberle

Direct RNA detection by flow cytometry, microscopy and multiplexing Marion Gruber

Interactive Panel discussion ALL

15:30-15:45 Networking Break

### 15:45-17:00 Part IV: Lab Automation & Digitalization

Future of lab automation Dieter Wagner

Sample prep in lab automation Andreas Koch

Platform for Science™ within Digital Science Alec Westley

Interactive Panel discussion ALL

17:00 Wrap-up and open networking

## Register at

[eu.fishersci.com/go/forumbiotech](http://eu.fishersci.com/go/forumbiotech) OR  
[thermofisher.com/forumbiotech](http://thermofisher.com/forumbiotech)

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Speaker – Sept 19, 2019	Title / Division
Matthias Saner	Director Corporate Accounts, Thermo Fisher Scientific
André Domin	CEO Technologiepark Heidelberg
<b>Part I: Let us talk about money – financing, leasing, renting</b>	
Ralf Kern	Regional Leasing Manager DACH, Thermo Fisher Financial Services
Manuela Habeker	Evosciences Leasing GmbH
<b>Part II: Biopharmaceutical Development</b>	
Gregor Richter	Sr. Sales Representative, Bioproduction Division
Marc Günder	Expert Sales Support EMEA Biopharma Chromatography and Mass Spectroscopy Division
Alexander Ley	Commercial Development Manager EMEA Life Science Chromatography and Mass Spectroscopy Division
<b>Part III: Cell Engineering &amp; Analysis</b>	
Arnd Dankesreiter	Sr. Technical Sales Specialist, Bioscience Division
Rainer Harzenetter	Teamleader Product Sales, Laboratory Product Division
Tim Wessel	Sr. Technical Sales Specialist, Bioscience Division
Gerhard Zimmermann	Technical Sales Specialist, Bioscience Division
Baldur Eberle	Sr. Technical Sales Specialist, Bioscience Division
Marion Gruber	Technical Sales Specialist, Bioscience Division
<b>Part IV: Lab Automation &amp; Digitalization</b>	
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: Let us talk about money – financing, leasing, renting**

*Extend your resources, elevate your sciences with Thermo Fisher Financial Services*

*Ralf Kern, Regional Leasing Manager DACH, Thermo Fisher Financial Services*

*Manuela Habeker, Evosciences Leasing GmbH*

*We will talk about what Thermo Fisher Financial Services can offer for you to extend your resources with immediate use of the equipment, fixed payments, preservation of capital budget, special program for biotech and start up companies as well as creative payment solutions, upgrade options and how to generate positive cash flow.*

### **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 Günder, 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 agencies<sup>1</sup>. 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 characterisation: Peptide Mapping, Intact Proteins, Glycan Analysis, Antibody Drug Conjugates, Host Cell Proteins*

*Alexander Ley, Commercial Development Manager EMEA Life Science, Chromatography and Mass Spectroscopy Div.*

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.



## Part II: 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 CO<sub>2</sub> incubator allowing you to isolate individual cell types or projects to help prevent cross contamination.

### ***3D Models: Developing better techniques for culture and analysis***

***Tim Wessel***, 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.

### ***3D cell culture analysis***

***Gerhard Zimmermann***, Technical Sales Specialist, Bioscience Division

This presentation will give an overview about the imaging and analysis of 3D Spheroids and Organoids. How you can improve the image quality. Which Reagents are available to study the 3D cultured cells and which new Systems can make your live easier in your research and deliver reliable results.

### ***Multiplex qPCR solutions with TaqMan***

***Baldur Eberle***, Sr. Technical Sales Specialist, Bioscience Division

Multiplex qPCR Solutions with Applied Biosystems™ TaqMan™

- Benefits and Challenges
- Instrument requirements and reagents needed
- When to decide to Multiplex or keep singleplex

### ***Direct RNA detection by flow cytometry, microscopy and multiplexing***

***Marion Gruber***, Technical Sales Specialist, Bioscience Division

This seminar will teach you about mRNA in-situ technology on different application platforms like flowcytometry, microscopy, Luminex using branchDNA technology.

## **Part IV: 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 Fisher™ Platform for Science™ software utilizes powerful data visualization tools and provides collaboration and integration capabilities to drive scientific research.

**Register at**

[eu.fishersci.com/go/forumbiotech](http://eu.fishersci.com/go/forumbiotech) OR  
[thermofisher.com/forumbiotech](http://thermofisher.com/forumbiotech)