

Tuesday, 11 Oct.

Applications Pharma, Diagnostics, Biomedicine

10:00 - 10:15 **Biotechnologie in der Republik Kirgistan - aktueller Stand und Ausblick**
Hall 9 ***Current state of Biotech science in Kyrgyz Republic and its perspective***
Stand F69
English

Prof. Almaz Aldashev, Institute of Molecular Biology and Medicine, Bishkek, Kyrgyzstan

Session "Biotechnology in Eastern Europe & Central Asia": Deminishing but still alive scientific potential of Kyrgyz Republic with good perspectives of collaboration in the field of Biotech: herbs, pathogens, vaccines.

Organizer: Deutsches Zentrum für Luft- und Raumfahrt e. V.

Agricultural Applications

10:20 - 10:35 **Anwendungschancen für biotechnische Instrumente zur Weizenoptimierung in Zentralasien**
Hall 9 ***Opportunities for the application of biotechnological tools in wheat improvement in Central Asia***
Stand F69
English

Dr. Ram C. Sharma, International Center for Agricultural Research in the Dry Areas (ICARDA), Regional Program for Central Asia and the Caucasus (CAC), Tashkent, Uzbekistan

Session "Biotechnology in Eastern Europe & Central Asia": Wheat is linked to food security in Central Asia. To improve efficiency of the wheat improvement programs in the region, collaboration with the International Agricultural Research Centers and advanced laboratories on the use of biotechnology is imperative.

Organizer: DLR Deutsches Zentrum für Luft- und Raumfahrt e. V.

Agricultural Applications

10:40 - 10:55 **Biosaline bodenschonende Landwirtschaft auf Grenzertragsböden**
Hall 9 ***Biosaline conservation agriculture on marginal lands***
Stand F69
English

Dr. Kristina Toderich, International Center for Biosaline Agriculture, sub-office Central Asia & Caucasus

Session "Biotechnology in Eastern Europe & Central Asia": How to combine profitable agricultural production through diversification of agro-ecosystems and create institutional arrangements to increase community participation in arid biosaline conservation agriculture on marginal lands.

Organizer: DLR Deutsches Zentrum für Luft- und Raumfahrt e. V.

Agricultural Applications

11:00 - 11:15 **Biotechnische Effizienz für Züchtung und Pflanzengenetische Ressourcen in Kasachstan**
Hall 9 ***Biotechnology efficiency for breeding and plant genetic resources in Kazakhstan***
Stand F69
English

Prof. Muratbek Karabayev, CIMMYT (International Maize and Wheat Improvement Center)

Session "Biotechnology in Eastern Europe & Central Asia": In Kazakhstan there is still an untapped capacity for improving plant productivity. The most crucial tasks today is to increase yields of agricultural crops through development of new varieties based on the advanced biotechnologies and PGR mobilisation.

Organizer: DLR Deutsches Zentrum für Luft- und Raumfahrt e. V.

Agricultural Applications

11:20 - 11:35 **Kartoffel-Biotechnologie in Zentralasien und dem Südkaukasus**
Hall 9 **Potato Biotechnology in Central Asia and Southern Caucasus**
Stand F69
English Dr. Carlo Carli, CIP - International Potato Centre, Liaison Office Tashkent/Uzbekistan

Session "Biotechnology in Eastern Europe & Central Asia": While Central Asia accounts for one of the highest potato consumption rates worldwide, related research has been neglected after the independence. A spotlight on chances and challenges of international biotechnology cooperation.

Organizer: DLR Deutsches Zentrum für Luft- und Raumfahrt e. V.

Applications Pharma, Diagnostics, Biomedicine

11:40 - 11:55 **Biotechnologie in Turkmenistan**
Hall 9 **Biotechnology in Turkmenistan**
Stand F69
English Dr. Gozel Hojayeveva, UNFPA (United Nations Population Fund)

Session "Biotechnology in Eastern Europe & Central Asia": Biotech in Turkmenistan: Development of bioengineering - Resolution for biology, medicine, agriculture and other spheres with the application of BT methods - Practical implementation of effective scientific research.

Organizer: DLR Deutsches Zentrum für Luft- und Raumfahrt e. V.

Life Science Spotlight

12:00 - 14:00
Hall 9
Stand F69 **New methods of protein analysis**
English
German

Every day between 12 noon and 2:00 p.m., The Life Science Research Group will be spotlighting particular life science themes such as "New methods of protein analysis" (11.10), "Stem Cells" (12.10.) and "Forensic" (13.10).

Organizer: Life Science Research Unternehmen

Industrial Biotechnology Applications

14:15 - 14:30 **Enzymes complex for highly efficient saccharification of lignocellulosic**
Hall 9 **feedstocks**
Stand F69 **Enzymes complex for highly efficient saccharification of lignocellulosic**
English **feedstocks**

Dr. Arkady Sinitsyn, Moscow State University, Institute of Biochemistry

Session "Biotechnology in Eastern Europe & Central Asia": Lignocellulosic biomass (LCB) is cheap and renewable feedstocks for production of useful products and fuel. The basis of biocatalytic conversion of LCB into useful products appears to be enzymatic hydrolysis of polysaccharides.

Organizer: DLR Deutsches Zentrum für Luft- und Raumfahrt e. V.

Biotech Services

14:34 - 14:50 **Rumäniens Kooperation mit den Ländern Osteuropas und Zentralasiens**
Hall 9 **Romanian cooperation with countries from Eastern Europe and Central Asia**
Stand F69
English Prof. Vasile Lungu, Department of European Integration and International Cooperation at the National Authority

Session "Biotechnology in Eastern Europe & Central Asia": An outlook on EU - Third Country biotechnology cooperation from the Romanian point of view.

Organizer: DLR Deutsches Zentrum für Luft- und Raumfahrt e. V.

Bioprocess Engineering

15:00 - 15:25

Hall 9

Stand F69

German

Alleinstellungsmerkmale in der Prozesschromatographie
Unique Features in Process Chromatography

Knut Thiele, Pall GmbH

Moderne Chromatographie soll eine effiziente und wirtschaftliche Wertstoffaufreinigung ohne Ausbeuteverluste ermöglichen. HyperCel Sorbentien (IEX und Mixed-Mode) und Mustang Membranadsorber in Verbindung mit innovativer Chromatographie-Hardware (PKP-Systeme und Resolute FM Säulen) unterstützen den Anwender in der Prozessentwicklung und Produktion.

Organizer: Pall GmbH

Biotech Services

15:30 - 15:55

Hall 9

Stand F69

English

Next Generation Sequencing – Neue Möglichkeiten in der Hochdurchsatz-Sequenzierung
Next Generation Sequencing – New Possibilities in High Throughput Sequencing

Dr. Gerald Nyakatura, LGC Genomics GmbH

We will introduce LGC Genomics' sequencing portfolio, give a short overview of next generation technologies and will provide an in-depth overview of LGC Genomics' capabilities in next generation sequencing, with particular reference to the 454 GS FLX+ and the Illumina HiSeq2000 platforms.

Organizer: LGC Genomics GmbH

Applications Pharma, Diagnostics, Biomedicine

16:00 - 16:25

Hall 9

Stand F69

English

iBox macro and microscopic in vivo fluorescent imaging: From UV to NIR
iBox macro and microscopic in vivo fluorescent imaging: From UV to NIR

Dr. Sean Gallagher, UVP, LLC/Ultra-Violet Products Ltd.

With the new addition of the UVP iBox® Explorer microscope, tracking individual fluorescent tumor cells, groups of cells, tissues, tissue margins and nascent metastases in vivo is straightforward. Combined with the original iBox® Scientia, designed for whole animal and plant imaging, the systems offer imaging wavelengths from UV to NIR.

Organizer: Ultra-Violet Products Ltd.

Applications Pharma, Diagnostics, Biomedicine

16:30 - 16:55

Hall 9

Stand F69

English

Gene Signatures - Eine Brücke in die Klinik
Gene Signatures - A bridge to the Clinic

Dr. Jim White, NanoString Technologies

The nCounter from Nanostring Technologies counts nucleic acid biomarkers directly without RT or PCR. This enables accurate, reproducible gene expression analysis from difficult clinical samples such as FFPE tissue. Opening a new era, in the exploration and validation of gene signatures in molecular pathology. Come hear how.

Organizer: NanoString

Wednesday, 12 Oct.

Bioanalytics

09:30 - 09:55

Hall 9

Stand F69

German

**Wasser in der Chromatographie - nur ein Verbrauchsmaterial?
Water for chromatography - just a consumable?**

Dipl.-Biol. Stefan Harnisch, Merck Millipore GmbH

Wie beeinflußt die Qualität des eingesetzten Reinstwassers die Ergebnisse chromatographischer Methoden? Beispiele für die Auswirkungen von Spuren-Kontaminationen im Wasser und neue Methoden, diese applikationsspezifisch zu vermeiden.

Organizer: Merck Millipore GmbH

Bioanalytics

10:00 - 10:25

Hall 9

Stand F69

English

**Geschwindigkeit und Genauigkeit leicht gemacht: Medium Analyse und Kontrolle
Speed and Accuracy Made Simple: Nutrient Analysis and Control**

David Barclay, YSI Incorporated

YSI introduce the new YSI2900 Biochemistry Analyser for cell culture. Using existing high cell count resistant design, now has expanded automation to 96 samples, smaller samples, enhanced data handling, user friendly touch screen+ergonomic design. Means to improve accuracy/precision, cut analysis time by 50% and future capability will be presented.

Organizer: KREIENBAUM Wissenschaftliche Meßsysteme e. K.

Industrielle Biotechnologie

10:30 - 10:55

Hall 9

Stand F69

English

**An Internal Control for monitoring DNA and RNA extraction and PCR inhibition in Real-Time PCR assay.
An Internal Control for monitoring DNA and RNA extraction and PCR inhibition in Real-Time PCR assay.**

Steve Hawkins PhD, Senior Global Product Manager, Boline GmbH

QPCR is important in diagnostics, but is dependent on template and inhibitors. Normally control DNA is spike in to monitor inhibition, but this does not show extraction quality. We have created controls that allow sample and control to be extracted together, showing the effectiveness of the extraction and inhibition reducing possible false-negative.

Organizer: Boline GmbH

Applications Pharma, Diagnostics, Biomedicine

11:00 - 11:25

Hall 9

Stand F69

German

**Die richtige Wahl für einwandfreie Versuchsergebnisse: Wie Pipettenspitzen, Gefäße und Mikrotiterplatten Experimente beeinflussen können
The right choice for improved assay results: How tips, tubes and plates can affect your experiments**

Dr. Daniel Wehrhahn, Eppendorf AG

Kunststoffmaterialien sind aus unserem täglichen Leben kaum noch wegzudenken. Im molekularbiologischen und biochemischen Labor werden Einmalgefäße aus Kunststoff in beinahe jeder Anwendung eingesetzt. In letzter Zeit häufen sich wissenschaftlichen Berichte über die Beeinflussung von Messergebnissen durch bestimmte auswaschbare Additive, die einige Hersteller von Kunststoffverbrauchsartikeln während der Herstellung zusetzen. Sensitive enzymatische assays und Standardversuche wie DNA Messungen sind betroffen. Der Vortrag gibt einen Überblick über neue wissenschaftliche Daten und zeigt einen möglichen Weg, wie Hersteller und Wissenschaftler Probleme vermeiden können.

Organizer: Eppendorf AG

Bioprocess Engineering

11:30 - 11:55

**Hall 9
Stand F69
German**

**State-of-the-Art Einwegmischtechnologien
State-of-the-Art Single-Use Mixing Technologies**

Mona Steurethaler, Pall GmbH

Die Arzneimittelherstellung erfordert den Einsatz leistungsstarker Mischsysteme. Als neueste Ergänzung seines Portfolios für Einweganwendungen stellt Pall den neuen Allegro 3D Einwegmischer vor, der ein breites Spektrum an einfachen und komplexen Mischeranwendungen abdeckt, darunter die Medien- und Puffervorbereitung und die finale Formulierung.

Organizer: Pall GmbH

Life Science Spotlight

12:00 – 13:45

**Hall 9
Stand F69
English
German**

Stem Cells

Every day between 12 noon and 2:00 p.m., The Life Science Research Group will be spotlighting particular life science themes such as "New methods of protein analysis" (11.10), "Stem Cells" (12.10.) and "Forensic" (13.10).

Organizer: Life Science Research Unternehmen

Biotech Services

13:50 - 14:15

**Hall 9
Stand F69
English**

**How to protect your IP?
How to protect your IP?**

Dr. Bettina Hermann, Vereenigde

Intellectual property rights (IPRs) become more and more important for companies to protect their intellectual properties, in particular inventions. IPRs comprise patents, utility models, trademarks and design models, which represent intangible assets of a company. The presentation provides an overview over the IPRs and ideas on the filing strategy.

Organizer: Vereenigde

Bioanalytics

14:15 - 15:10

**Hall 9
Stand F69
English**

**Innovative Zellanalyse: Zytometrie im Pipettenformat
Workshop und bahnbrechende Neuigkeiten von Merck Millipore
Breakthroughs in Cellular Analysis: Portable Cytometry for Cell Profiling
Workshop and Special Announcement From Merck Millipore**

Dr. Grace Johnston, Merck Millipore

Biological samples are often comprised of heterogeneous cell mixtures. This complexity is resolved using large bench top platforms. The Scepter Handheld Cytometer offers quick qualitative assessment of population frequencies and overall health status. Up front knowledge of such key parameters ensures greater relevance in experimental design.

Organizer: Millipore GmbH

Applications Pharma, Diagnostics, Biomedicine

15:15 - 15:40

**Hall 9
Stand F69
English**

**Voll-automatisches NAT-System: 'geneLEAD and geneTYPiST'
Fully-automated sample to answer system for NAT 'geneLEAD and
geneTYPiST'**

Tetsuya Ueda, PhD, Precision System Science Co., Ltd; Universal Bio Research Co., Ltd.

PSS developed two platforms which are fully-automated and -integrated instruments for nucleic acid amplification tests (NAT) processing all steps for NATs. With the Ease-of-Use and robust platforms design these fully-automated and integrated systems show excellent performances for highly accurate NATs in the molecular diagnostic testing.

Organizer: PSS Europe GmbH

Applications Pharma, Diagnostics, Biomedicine

15:45 - 16:10 **The simplest method of preliminary diagnosis**
Hall 9 *The simplest method of preliminary diagnosis*
Stand F69
English Jan Stoj, DINO-96

BioMarker - DINO96 - instant preliminary diagnosis. The simplest method of preliminary diagnosis (breast or lung cancer) worldwide! It does not require any equipment, can be used even in the most adverse conditions, without any medical background. All that it takes is DINO-96 in powder or liquid and some local water or oil.

Organizer: DINO-96

Industrial Biotechnology Applications

16:15 - 16:40 **Chromatographiemedien für die Aufreinigung von Antikörpern**
Hall 9 *High Capacity Liquid Chromatography Media for Antibody Purification*
Stand F69
English Regina Römling, Tosoh Bioscience GmbH

TOYOPEARL Bioprocess resins are rigid polymethacrylate based chromatography media, designed for the purification of biopolymers from lab-scale to industrial scale. Advanced ligand and particle technologies enabled a remarkable increase of IgG binding capacity of protein A affinity, ion exchange and HIC resins.

Organizer: TOSOH BIOSCIENCE GmbH

Bioanalytics

16:45 - 17:10 **Neue Entwicklungen auf dem Gebiet der Life Science Analytik mit SPRI und Fluoreszenzspektroskopie**
Hall 9 *New developments in Life Science with SPRI and Fluorescence Spectroscopy*
Stand F69
English Dr. Elodie LY-MORIN, Frank Birke

An important role plays for biological samples the SPRI Technique. This method is label free and gives a lot of information on a big number of samples. In combination with Mass Spectroscopy new information are available.

The fluorescence spectroscopy can give in combination with microscopy new information too.

Organizer: HORIBA Jobin Yvon GmbH

Thursday, 13 Oct.

Applications Pharma, Diagnostics, Biomedicine

10:00 - 10:25 **CytoCapture - Kultivierung und Einzel-Analyse nicht adhärenter Zellen und Zell-Spherioide**
Hall 9 *CytoCapture - Enabling single cell analysis of non-adherent cells and cellular spheroids*
Stand F69
English Dr. Benedikt Busse, zell-kontakt GmbH

A brand new technology platform for microscopy and manipulation of non adherent cells, cellular spheroids and 3D-constructs of adherent cells will be introduced. Functionalised microcavities within microscopy labware allow user friendly high resolution microscopy, cultivation and analysis with excellent control of cell location and orientation.

Organizer: zell-kontakt GmbH

Bioprocess Engineering

10:30 - 10:55 **Steriltechnik-Rohrverbindungen, Behälterschnittstellen, Meßtechnik-ohne Elastomere, metallisch dichtend**
Hall 9 *Steriltechnik-Rohrverbindungen, Behälterschnittstellen, Meßtechnik-ohne Elastomere, metallisch dichtend*
Stand F69
German Harry L. Jost, NEUMO GmbH + Co. KG

ConnectS® ist eine Aseptikverbindung, die völlig ohne Elastomere auskommt. ConnectS® gewährleistet, unter Ausnutzung der elastischen Eigenschaften von Edelstahl, die Funktionalität und erzielt, bei hoher Betriebssicherheit, hervorragende bakteriologische Ergebnisse. Ein weltweit einzigartiges, patentiertes Produkt für die Steriltechnik, Chemie u.v.m

Organizer: NEUMO GmbH + Co. KG

Bioprocess Engineering

11:00 - 11:25

Hall 9

Stand F69

German

**GMP-gerechte Herstellung von WFI und kundenspezifischen Pufferlösungen
abgefüllt in Pall Allegro Biocontainer**
*GMP compliant Production of WFI and Customer-specific Buffer Solutions
filled into Pall Allegro Biocontainers*

Leila Kahlisch, hameln pharmaceuticals gmbh; Mona Steurethaler, Pall GmbH

Hameln Pharma bietet seit Anfang des Jahres die GMP-gerechte Herstellung von WFI und kundenspezifischen Pufferlösungen als Serviceleistung an. Diese können dank ihrer hohen Qualität für die biotechnologische API-Entwicklung und Produktion (downstream) eingesetzt werden. Die Bereitstellung erfolgt in Pall Allegro 2D und 3D Biocontainern.

Organizer: Pall GmbH

Bioprocess Engineering

11:30 - 11:55

Hall 9

Stand F69

German

**Produktivitätssteigerung durch multiparallele Stammentwicklung unter
Prozessbedingungen**
*Increased Productivity due to Multiparallel Clone Screening under Process
Conditions*

Rainer Marzahl, Pall GmbH

Aufwendige Kultivierungsmethoden in Labor-Bioreaktoren limitierten bisher die Möglichkeit der multiparallelen Stammentwicklung unter Prozessbedingungen. Der Vortrag beschreibt eine neuartige Technologie zur gleichzeitigen Durchführung von 24 Fermentationen, wobei pH, pO₂ und Temperatur jeweils individuell geregelt werden.

Organizer: Pall GmbH

Life Science Spotlight

12:00 - 14:00

Hall 9

Stand F69

English

German

Forensic

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Organizer: Life Science Research Unternehmen

Bioanalytics

14:15 - 14:40

Hall 9

Stand F69

English

Optische Messtechnik in der Biotech-Industrie
Optical Sensing in the Biotech Industry

Dr. David Creasey, Ocean Optics

With over 15 years experience, Ocean Optics has the application knowhow and spectrometer and optical sensing portfolio to provide both bench top R&D laboratory and full sub-system OEM solutions for the biotechnology market. This presentation provides an insight into our capabilities and our many success stories.

Organizer: Ocean Optics Germany GmbH

Applications Pharma, Diagnostics, Biomedicine

14:45 - 15:50
Hall 9
Stand F69
English

Vielseitig einsetzbare Methoden für Molekularbiologische Workflows von Thermo Scientific
Versatile tools for molecular biology workflows from Thermo Scientific

Arja Lamberg, Market and Product Line Manager, KingFisher Products; Maiju Kylliäinen, Product Manager, PCR Reagents

Most molecular biology workflows start with nucleic acid purification and continue with the amplification of target sequences using PCR. Thermo Scientific instruments and consumables provide a full range of intuitive tools for different parts of this workflow. For nucleic acid purification, KingFisher magnetic particle processors utilize KingFisher DNA/RNA purification kits to provide automated, high speed and high quality isolation of nucleic acids from a variety of sample types. Multiskan GO and Nanodrop spectrophotometers are handy tools for DNA/RNA quality and quantity measurements. For target sequence amplification, the Thermo Scientific PCR product line offers a complete solution of reagents, instruments and plastics. One of the latest innovations is the Thermo Scientific Direct PCR approach, enabling DNA amplification directly from various sample materials such as plants, animal/human tissues and even from blood, without DNA purification. Direct PCR allows significant cost savings and minimal hands-on time, and relies on Thermo Scientific Phusion and Phire DNA Polymerases. These robust enzymes utilize fusion protein technology where a dsDNA binding domain is attached to the polymerase, enhancing their performance in PCR in many ways. One such enhancement is the increased inhibitor tolerance of Phusion® and Phire®, and this feature plays a key role in the Direct PCR approach. In addition, the high processivity of these enzymes allows fast cycling times. When used in combination with a Thermo Scientific Piko Thermal Cycler and Ultra Thin Wall Plastics, PCR protocols can be completed in as little as 30 minutes.

Organizer: Thermo Scientific

Applications Pharma, Diagnostics, Biomedicine

15:45 - 16:10
Hall 9
Stand F69
English

Effiziente Produktion hoher Volumina von Hybridomazellen und Transfektionsapplikationen mit Elektroporation
Efficient large volume production of hybridoma + cell transfection applications using electroporation

Robin E. Butler, BTX Harvard Apparatus

Efficient Large Volume Hybridoma Production and Cell Transfection using BTX Electroporation Systems

Interest in gene therapy and immunotherapy applications has significantly increased over the last ten years. The focus of such interest has been to develop treatments for specific cancer and autoimmune diseases that are otherwise non-responsive to traditional therapies. The potential to treat these diseases via gene and immunotherapy applications necessitates the availability of electroporation and electrofusion systems capable of scaling up to large volume production without sacrificing the quality achieved on the small scale.

BTX now offers the AgilePulse MAX and the Hybrimune System for efficient large-volume Hybridoma production and cell transfection. These systems are cost effective and provide consistent gene delivery into cells and efficient large volume electrofusion capabilities for the development of monoclonal antibodies.

To address the need for large volume cell transfection, the AgilePulse Max Electroporation System can scale up from cuvettes to BTX-signature 6 ml chambers using a specialized BTX low conductance media which ensures efficient uptake of gene delivery into mammalian cells.

The Hybrimune Electrofusion System is capable of producing monoclonal antibodies yielding 10 fold higher fusion rates over standard chemical methods. Hybridoma production is facilitated via electrofusion to efficiently fuse immune cells in large volumes up to 9 mls using the Hybrimune system and a specially-designed Cytofusion buffer. The potential of gene and immuno-therapy applications to provide treatment of diseases requires BTX large volume electroporation technology for the cost effective solution to high efficiency transfection or electrofusion.

Organizer: VWR International GmbH

Bioanalytics

16:15 - 16:40

Hall 9

Stand F69

English

SNAP-tag/CLIP-tag Technologie: Ideal für das Imaging von dynamischen Prozessen in der Zelle!

SNAP-tag/CLIP- Technology: Multiplex Tagging Tools for the Study of Protein Dynamics in Living Cell

Dr. Carsten Lanwert, New England Biolabs GmbH

SNAP-tag/CLIP-tag are unique self-labeling protein tags with a variety of fluorescent substrates and excellent tools for imaging intracellular and cell surface proteins in living and fixed cells. These tags can be used for super-resolution microscopy, time-resolved dual labeling, highly efficient covalent pull-downs and other biochemical assays.

Organizer: New England Biolabs GmbH

Bioanalytics

16:45 - 17:10

Hall 9

Stand F69

English

PTMScan Technologie: Werkzeuge für Pathway Profiling, Biomarker Discovery & Target Identification

PTMScan Technology: Tools for Pathway Profiling, Biomarker Discovery & Target Identification

Dr. John-David Herlihy, Cell Signaling Technology Inc.

PTMScan™ Services employ proprietary methodologies for antibody-based peptide enrichment from digested cell extracts or tissue combined with tandem mass spectrometry for proteome wide quantitative profiling and detection of post-translational modifications (PTMs), including phosphorylation, ubiquitination, and acetylation. *PTMScan™ Services employ proprietary methodologies for antibody-based peptide enrichment from digested cell extracts or tissue combined with tandem mass spectrometry for proteome wide quantitative profiling and detection of post-translational modifications (PTMs), including phosphorylation, ubiquitination, and acetylation.*

Organizer: New England Biolabs GmbH