



- Bio-Based Economy
- Bio-IT World Europe
- Bio@venture
- Biomanufacturing Symposium
- bone-tec
- Innovation Forum
- Life Science Spotlight
- Molecular Food Analysis
- Partnering
- PEGS Europe
- Science to Market

Conference Program



Hannover, 6–8 October 2009

Veranstaltungen BIOTECHNICA 2009

Auch in diesem Jahr werden parallel zu Ausstellung und Partnering über 500 hochkarätige Redner aus aller Welt auf ausgewählten Konferenzen im Convention Center sowie auf verschiedenen Foren in den Hallen 8 und 9 über vielversprechende Geschäftsmodelle, neueste Forschungsergebnisse und erfolgreiche Anwendungen in Industrie und Wissenschaft referieren. Das BIOTECHNICA Konferenzprogramm wurde in diesem Jahr neu geordnet, weiterentwickelt und auf neue Schwerpunkte fokussiert. Die Konferenzen sind in folgende Hauptkategorien eingeteilt: **(a)** Die biotechnologischen Anwendungsbereiche Medical (Therapeutics, Diagnostics, Biomanufacturing), Industrial & Environmental (Biocatalysis, BioProcessing, BioRefinery, Bio-based Products), AgriFood Biotechnology (Plant und Breeding Biotechnology, Food/Feed Processing), **(b)** Biotechnik mit Enabling Technologies (Bioanalytics, Research & Development Technologies, Lab Equipment, Lab Supply) und **(c)** Interdisciplinary Technologies (z. B. Systems Biology, Bioinformatics, Nano-Biotechnology), **(d)** Business Services & Politics sowie **(e)** Bio-based Economy.

Wenn z.B. Knowledge Transfer oder Business Development Gründe für Ihren Besuch auf der BIOTECHNICA sind, dann werden Sie hierzu in unserem Konferenzprogramm zahlreiche interessante Vorträge, Präsentationen und Diskussionen finden.

Besonders hinweisen möchten wir auf eine Reihe neuer vielversprechender Veranstaltungen, wie z. B. PEGS Europe – Protein Engineering Summit, Bio-IT World Europe (Informatik in Biotechnologie und Pharma), bone-tec (Kongress zur modernen Knochenregeneration), Molecular Food Analysis –The Future (Allergene in Lebensmitteln, gentechnisch veränderte Lebensmittel sowie Real Time PCR), Bio-Based Economy Conference (Renewable Resources, Biorefineries, Bioeconomics sowie interdisziplinäre Anwendungen), Bio@Venture Conference (Finanzierung) oder das Roche-Forum „Vom Geno- zum Phänotyp: Innovative Ansätze für die Gen- und Zellforschung“. Erfolgreiche Konferenzen und Symposien, wie die EAPB Conference – Science to Market, das Biomanufacturing Symposium und BMBF-Projektforum Biotechnologie, auf dem bereits zum dritten Mal Forscher, Forschungseinrichtungen und Firmen geförderte Innovationen und Ergebnisse zeigen, werden fortgeführt.

Darüber hinaus finden Sie eine Reihe weiterer hochinteressanter Vorträge in den Foren der Hallen 8 und 9: z. B. im Life Science Spotlight mit den Themen Stem Cells, Advanced Methods in PCR, Optimized Protein Expression und Methods in Molecular Diagnostics. In den BIOTECHNICA INNOVATION FOREN präsentieren wieder eine Reihe von Unternehmen und Forschungseinrichtungen neueste Entwicklungen und Produkte.

www.biotechnica.de/veranstaltungen

Events at BIOTECHNICA 2009

Parallel to the BIOTECHNICA exhibition and partnering platform, this year's event again features over 500 high-caliber speakers from across the globe, appearing at selected conferences in the Convention Center as well as in a series of forums in halls 8 and 9 to present their promising business models, latest research findings and successful applications in industry and science.

The BIOTECHNICA Conference Program has been further developed and revised this year to focus on the following main categories: **(a)** the Biotech Application Areas of Medical (Therapeutics, Diagnostics, BioManufacturing), Industrial & Environmental (BioCatalysis, BioProcessing, BioRefinery, Bio-based Products) and AgriFood Biotechnology (Plant and Breeding Biotechnology, Food/Feed Processing); **(b)** Biotechnology based on Enabling Technologies (Bioanalytics, Reserach & Development Technologies, Lab Equipment, Lab Supply); **(c)** Interdisciplinary Technologies (including Systems Biology, Bioinformatics, Nano-Biotechnology); **(d)** Business Services & Politics; and **(e)** the Bio-based Economy. If Knowledge Transfer or Business Development is one of the reasons for your visit to BIOTECHNICA, you will certainly find numerous interesting talks, presentations and discussions in our Conference Program there.

We would especially like to emphasize a series of exciting new events, including PEGS Europe – the Protein Engineering Summit, Bio-IT World Europe (Informatics in Biotechnology and Pharmaceuticals), bone-tec (Conference on Modern Bone Regeneration), Molecular Food Analysis: The Future (allergens in food, genetically modified food and real-time PCR), Bio-Based Economy Conference (Renewable Resources, Biorefineries, Bioeconomics and Interdisciplinary Applications), Bio@Venture Conference (Financing) and the Roche Forum “From genotype to phenotype: Innovative approaches to genetic and cell research.” Successful conferences and symposia, like the EAPB Conference: Science to Market, the Biomanufacturing Symposium and the 3rd BMBF Biotech Project Forum, featuring researchers, research institutions and companies presenting their subsidized innovations and findings, are being continued. In addition you'll find a range of fascinating presentations in the forums staged in halls 8 and 9 – for example at the Life Science Spotlight, featuring the topic of Stem Cells, Advanced Methods in PCR, Optimized Protein Expression and Methods in Molecular Diagnostics. And at the BIOTECHNICA INNOVATION FORUMS you can take in a range of companies and research institutions presenting their latest developments and products.

www.biotechnica.de/events

Topic	Program	Where?	Organizer	Tuesday, 6 October 2009	Wednesday, 7 October 2009	Thursday, 8 October 2009
MEDICAL BIOTECHNOLOGY						
THERAPEUTICS						
bone-tec	CC	Institute Indente				
PEGS Europe - Protein Engineering Summit	CC	Cambridge Healthtech Institute (CHI)		Lunch		
2nd EAPB Conference - Science to Market	CC	European Association of Pharma Biotechnology (EAPB)		Lunch		
Stem Cells	Hall 9	Life Science Research (LSR)				
DIAGNOSTICS						
Advanced Methods in PCR	Hall 9	Life Science Research (LSR)				
Optimized Protein Expression	Hall 9	Life Science Research (LSR)				
Methods in Molecular Diagnostics	Hall 9	Life Science Research (LSR)				
BIOMANUFACTURING	2nd Biom manufacturing Symposium	CC	Capgemini, Deutsche Messe			
AGRIFOOD BIOTECHNOLOGY						
FOOD ANALYTICS	Molecular Food Analysis - The Future	CC	BEHR'S Verlag, Deutsche Messe, Life Science Research			
INDUSTRIAL / ENVIRONMENTAL BIOTECHNOLOGY						
BIO-BASED ECONOMY	Bio-Based Economy Conference 2009 (Renewable resources, Biorefineries, Bioeconomics)	CC	Capgemini, Deutsche Messe	Lunch		
INTERDISCIPLINARY TECHNOLOGIES						
BIO-INFORMATICS	Bio-IT World EUROPE	CC	Cambridge Healthtech Institute (CHI)	Lunch		
ENABLING TECHNOLOGIES						
PEGS – Next Generation Technology for Protein Engineering	CC	Cambridge Healthtech Institute (CHI)		Lunch		
Optimized Protein Expression	Hall 9	Life Science Research (LSR)				
Advanced Methods in PCR	Hall 9	Life Science Research (LSR)				
Micro Total Analysis Systems	CC	IMM Institut für Mikrotechnik Mainz				
From Cell to Genome Function	CC	Roche Diagnostics GmbH				
BUSINESS DEVELOPMENT						
FINANCING LIFE SCIENCES	1st Bio@Venture Conference	CC	Investitions- und Förderbank Niedersachsen, Deutsche Messe, Landesinitiative Life Sciences Niedersachsen, Enterprise Europe Network Niedersachsen, Bioventure Consulting	Lunch		
Special Events						
BMBF-Projektforum Biotechnologie	Hall 9	Bundesministerium für Bildung und Forschung				
BIOTECHNICA PARTNERING	Hall 9	Deutsche Messe AG, EBD Group				
BIOTECHNICA Innovation Forum	Hall 8 + 9	Deutsche Messe AG				
Indo-German Workshop	CC	Life Science Niedersachsen, BioRegion				
9. Biomasse Workshop	CC	Stadtwerke Halle GmbH in Kooperation mit weinberg campus e.V.				
Verleihung des 3. Innovationspreises der BioRegionen in Deutschland	Hall 9	Arbeitskreis der BioRegionen				
Erfolge und Chancen in der BioMedizintechnik	Hall 9	BIOPRO Baden-Württemberg				
The KAPPA-Health EU Project	Hall 9	Steinbeis-Europa-Zentrum				
Exzellenz an allen Fronten – Arbeit der Cluster B.-Württemberg	Hall 9	BIOPRO Baden-Württemberg				
Neue Impulse für die Bioenergie	Hall 9	BIOPRO Baden-Württemberg				
Career Development & Training						
Perspektiven für Lebensmittelwissenschaftler	Hall 9	BIOPRO Baden-Württemberg				
Verleihung des BIOTECHNICA Studienpreises	Hall 9	VIBO e.V., Roche Diagnostics GmbH				
job vector career day	Hall 8	job vector				

more information: www.biotechnica.de/events

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MEDICAL BIOTECHNOLOGY

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DIAGNOSTICS

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Optimized Protein Expression – Life Science Spotlight (08.10.2009) – details on page 28	
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ENABLING TECHNOLOGIES

PEGS –Next Generation Technology for Protein Engineering (06.–08.10.2009) – details on pages 74–84
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Therapeutics

bone-tec 2009 – International Bone-Tissue-Engineering Congress Convention Center (CC), Saal/room 3 08.10.2009–11.10.2009

Dieser Kongress bringt führende Wissenschaftler der Welt auf dem Sektor der Modernen Knochenregeneration inkl. Knorpel, Sehnen und Bänder zusammen. Es werden aktuelle und richtungsweisende Forschungsergebnisse präsentiert. In eigenen Symposien berichten etablierte Forschergruppen über ihre Arbeit. Darüber hinaus dient der Kongress der Förderung der Kooperation, dem Ausbauen von Netzwerken und der Planung zukünftiger Projekte.

This congress joins leading scientists from all over the world in modern bone regeneration including cartilage, tendons and ligaments. Latest and progressive research results will be presented. Established research teams will report on their work. In addition the congress should initiate cooperation, expand networks and create the planning of future projects.

Veranstalter/
Organizer Institute Indente
Ellernstr. 23, D-30175 Hannover

Sprache/
Language Englisch/English

Teilnahme/
Participation Participation fee (incl. V.A.T.) and entrance ticket to the BIOTECHNICA on October 8, 2009:
550,00 EUR (Non-Member)
520,00 EUR (Member of Scientific Partner Organisation)
275,00 EUR (PHD, Master Student, Student)
65,00 EUR (Congress dinner).

Registration required via Institute Indente online at www.bone-tec.com.

Kontakt/
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E-mail: info@indente.de

Donnerstag/ Thursday, 08.10.2009, 12:00–19:00 Uhr/hrs

12:00 **Opening registration desk**

Symposium 1: Why: Spontaneous Induction of Bone Formation by Different Biomaterials?

Moderation: Prof. Dr. Ugo Ripamonti / Dr. Manolis Heliotis

Why: Spontaneous Induction of Bone Formation by Different Biomaterials?

Prof. Dr. Ugo Ripamonti, University of Witwatersrand, Johannesburg, South Africa

More Bioactive None-Stoichiometric Hydroxyapatite with Silicon Substitution

Alieh Aminian, Amirkabir University of Technology, Tehran Polytechnic, Iran

Influence of RGD-Polycaprolactone Films on Preosteoblast Responses

Olivier Drevelle, Université de Sherbrooke, Dept. of Chemical Engineering and Biotechnological Engineering, Canada

Biomechanical and Histological Study of Bone Response Titanium Implants Topographically Modified by Laser Nd-YAG, with and without Coated Hydroxyapatite, in Rabbit Tibia

Karin E. Sisti, UFMS-Brazil, Campo Grande-MS, Brazil

Coffee Break // Poster Presentation

Symposium 2: Production and Use of Growth Factors in Bone Tissue Engineering

Moderation: Prof. Dr. Dr. Martijn van Griensven / Dr. Birgit Weyand

BMP Receptors: Molecular Recognition and Drug Design

Prof. Dr. Walter Sebald, University of Würzburg, Theodor-Boveri-Institute, Germany

From Nano to Micro Technology: Engineering Delivery System for Bone Tissue Regeneration

Prof. Dr. Marcelle Machluf, Technion - Israel Institute of Technology, Faculty of Biotechnology and Food Engineering, Haifa, Israel

Induction and Detection of Osteogenic Differentiation in Vitro

Dipl.-Chem. Georg Feichtinger, LBI for experimental and clinical traumatology, Vienna, Austria

Coffee Break // Poster Presentation

Bone Morphogenetic Proteins for Alveolar Bone Tissue Engineering – Biological Observations

Prof. Dr.Dr.Dr. Ulf Wikesjö, Medical College of Georgia, Laboratory for Applied Periodontal and Craniofacial Regeneration, Augusta, USA

Effects of a Peptide Derived from BMP-9 on Preosteoblasts and Preadipocytes Differentiation

Eric Bergeron, Université de Sherbrooke, Dept. of Chemical and Biotechnological Engineering, Canada

Prolonged Smad2/3 Signaling Decreases Functional Activity of Primary Human Osteoblasts

Sabrina Ehnert, TU Munich, Klinikum rechts der Isar, Dept. of Traumatology, Germany

The Role of the Bone Morphogenetic Proteins 2 and 7 in Cartilage Repair

Dr. Hagen Schmal, University of Freiburg Medical Center, Dept. of Orthopaedic Surgery, Germany

Production of a Modified rhBMP-2 with a High-Affinity Collagen Binding Domain to Improve Bone Formation in Vivo

Dr. Rick Visser, University of Malaga, Spain

A BMP Enhancing Guided Bone Regeneration Membrane: The Bench to the Clinic

Dr. Franz Weber, University Hospital Zurich, Dept. of Bioengineering, Clinic for Maxillofacial Surgery, Switzerland

Poster Presentation

Opening Ceremony

Freitag/ Friday, 09.10.2009, 09:00–19:00 Uhr/hrs

08:00 **Opening registration desk**

Main Programme

Skeletal Stem Cells: Phenotype, Biology and Environmental Niches Informing Bone Tissue Regeneration

Prof. Richard OC Oreffo, University of Southampton, Institute of Developmental Sciences, UK

Delivery Technology of Growth Factor in Bone Tissue Engineering

Prof. Yasuhiko Tabata, Kyoto University Japan, Dept. of Biomaterials, Field of Tissue Engineering, Japan

Extracorporeal Shock Wave Stimulation of Osteoprogenitor Cells

Prof. Dr. Myron Spector, Harvard Medical School, Orthopaedic Surgery, Boston, USA

Coffee Break // Poster Presentation

New Strategies for Musculoskeletal Repair

Prof. Dr. Molly M. Stevens, Imperial College, Institute of Biomedical Engineering, London, UK

11:15–11:45	Development of Endothelial Progenitor Cells (EPC) -Selective Scaffolds for Tissue Engineering Prof. Dr. Swee-Hin Teoh, National University of Singapore, Mechanical Engineering Department, Singapore	17:45–18:00	Development of a Functional Nanofibrous Membrane Using Biomolecules for Bone Tissue Engineering Andrea Renzing, University of Kiel, Dept. of Oral and Maxillofacial Surgery, Germany
11:45–12:15	Autologous Growth Factors and Biomaterial Antibiotic Loaded Carriers in Difficult Trauma Cases Dr. Ulf-Joachim Gerlach, BUK Hamburg, Septic Bone and Joint Surgery, Germany	18:00–18:15	Influence of Poly(L-Lactic Acid) Nanofibers and BMP-2 Containing Poly(L-Lactic Acid) Nanofibers on Growth and Osteogenic Differentiation of Human Mesenchymal Stem Cells Dr. Markus Schofer, University Hospital of Marburg, Dept. of Orthopaedics, Germany
12:15–13:15	Lunch // Poster Presentation	18:15–18:30	Fabrication and Characterization of Three Dimensional Scaffolds of Bioceramic-Polymer Composite via Microstereolithography Technique Marina Talib, University of Warwick, School of Engineering, Coventry, UK
	Symposium 3: Recent Developments in Biomaterials and Bioreactors for Bone Tissue Engineering	18:30–18:45	Synthetic Fibrin-Like Matrix for Bone Tissue Engineering Dr. Franz Weber, University Hospital Zurich, Dept. of Bioengineering, Clinic for Maxillofacial Surgery, Switzerland
Moderation:	Assoc. Prof. Dr. Cornelia Kasper / Dr. Frank Witte	18:45–19:00	Free-Form Fabrication of Biopolymeric Scaffolds for Osteochondral Segment Regeneration Matteo Centola, University Campus Bio-Medico of Rome, Chemistry and Biomaterials Laboratory, CIR, Italy
13:15–13:45	Bone Engineering Concepts – Preclinical Animal Models and Their Translation into the Clinical Arena Prof. Dr. Dietmar Hutmacher, Queensland University of Technology, Brisbane, Australia		
13:45–14:15	Progress in the Development of Nanostructured Bioactive Scaffolds for Bone Tissue Engineering Prof. Dr. Aldo Boccaccini, Imperial College London, UK, University of Erlangen-Nuremberg, Germany		
14:15–14:30	Vascularized Scaffolds for Bone Tissue Engineering Prof. Dr. Heike Mertsching, Fraunhofer Institute, Stuttgart, Germany		
14:30–14:45	Therapeutic Cell Therapy and Tissue Engineering: New Magnetic Strategies for Growth Control and Delivery Prof. Dr. Alicia El Haj, University of Keele, Institute of Science and Technology in Medicine, UK		
14:45–15:00	An in Vitro Bone Organ Model Using Human Progenitor Cell Populations Dr. Adam Papadimitropoulos, University Hospital Basel, Switzerland		
15:00–15:15	Magnesium Corrosion: a New Challenge for Temporary Biomaterials Dr. Frank Witte, Hannover Medical School, Dept. of Orthopaedic Surgery, Germany		
15:15–15:30	Effect of Controlled Shear Stress on Three-Dimensional Cell Growth, Cell Differentiation and Matrix Deposition for Bone Substitutes in a Laminar Flow Bioreactor Dr. Birgit Weyand, Hannover Medical School, Germany		
15:30–15:45	NanoCT for 3D-Analysis of Biomaterials with Submicrometer Resolution Dipl.-Phys. Frank Sieker, GE Sensing & Inspection Technologies, phoenix x-ray, Wunstorf, Germany		
15:45–16:00	Effects of Mechanical Stimulation Concerning the Osteogenic Differentiation of Primary Stem Cells Stephanie Böhm, Leibniz University, Hannover, Germany		
16:30–16:45	Bone Activity of MgCa-Implants and Fluoride-Coated MgCa in Comparison to Titanium Dr. Nina Angrisani, University of Veterinary Medicine, Small Animal Clinic, Hannover, Germany		
16:45–17:00	The Effect of Sodium Doping in Calcium Polyphosphate Substrate for Tissue Engineering Dr. Marc Grynpas, University of Toronto; Samuel Lunenfeld Research Institute, Mount Sinai Hospital, Canada		
17:00–17:15	In Vitro Biocompatibility and Osteogenicity of Porous Polyester Copolymer Scaffolds for Bone Tissue Engineering Shaza Idris, University of Bergen, Dept. of Clinical Dentistry, Faculty of Medicine and Dentistry, Norway		
17:15–17:30	Alginate/CaCO₃ Composite Biomaterials Magnus Oldørøy, Norwegian University of Science and Technology, Dept. of Physics, Trondheim, Norway		
17:30–17:45	Bioresorbable Bioactive Matrix for Bone Regeneration Gianni Pertici, Insubrian Biomedical Industries SA, Mezzovico, Switzerland	17:45–18:00	Development of a Vascularised Bone Graft by Application of BMP-2 in PLDLLA-TCP-PCL HP™ Hydrogel Composite Scaffolds Along with Artery-Venous (AV) Loop Dr. Subha Narayan Rath, University Hospital Erlangen, Germany

18:00–18:30	Repair of Critical Size Defects in Rat Calvaria Using BMP-2 Loaded PLLA Nanofibre Scaffolds Philip Peter Rößler, University Hospital Giessen and Marburg, Location Marburg, Dept. of Orthopaedics and Rheumatology, Germany	14:30–14:45	Mesenchymal Stem Cell Integrin Expression and Cell Adhesion to Adsorbed Proteins Staffan Dåmark, University of Bergen, Dept. of Clinical Dentistry, Faculty of Medicine and Dentistry, Norway; Fibre and Polymer Technology, Royal Institute of Technology, Stockholm, Sweden
18:15–18:30	Enhanced Osteoblastic Differentiation of Mesenchymal Stem Cells Seeded in RGD Functionalized PLLA Scaffolds and Cultured in a Perfusion Bioreactor Ass. Prof. Dr. Vassilios Sikavitsas, University of Oklahoma Norman, Chemical, Biological and Materials Engineering, USA	14:45–15:00	Implications of Heterotopic Chondrocyte Co-Cultures in Matrix Guided Cartilage Repair Karym El Sayed, Charité-University of Medicine Berlin, Dept. of Trauma and Reconstructive Surgery, Germany
18:30–18:45	New Bone Tissue Engineered System with Advanced Prior-To-Implantation Degradation Joanna Wójtowicz, Medical University of Warsaw, Dept. of Biophysics and Human Physiology, Poland	15:00–15:15	Synthesis of Biphasic Calcium Phosphate Bioceramic Using Microwave Irradiation for Bone Substitute Applications Arghavan Farzadi, Amirkabir University of Technology, Tehran Polytechnic, Iran
18:45–19:00	Evaluation of De Novo Bone Formation in a Goat Model Using an Injectable Cross-Linkable Pluronic® F127 Modified Hydrogel in Combination with Autologous Mesenchymal Stem Cells Prof. Lieven Vlaminck, Ghent University, Depart. of Surgery and Anaesthesiology of Domestic Animals, Faculty of Veterinary Medicine, Belgium	15:30–15:45	Osteogenic Differentiation in Rabbit BMSCs by rAAV-2 Carrying hBMP-2 Gene Transduction Dr. Jin Ke, University of Hong Kong, Faculty of Dentistry, Hong Kong China

Samstag/Saturday, 10.10.2009, 09:00–17:00 Uhr/hrs

08:00	Opening registration desk	16:00–16:15	Lost in Translation - on the Heterogeneity of Mesenchymal Stem Cells Axel Krinner, University of Leipzig, Interdisciplinary Center for Bioinformatics, Germany
Main Programme			
09:00–09:30	Strategic Directions in Tissue Engineering Prof. MD Peter C. Johnson, Headway LifeScience Resources, Raleigh NC, Scintellix, LLC, Raleigh NC, USA	16:15–16:30	Stem Cell Plasticity at the Single Cell Level in 3D Microenvironments Dr. Markus Rottmar, Empa, Swiss Federal Laboratories for Materials Testing and Research, Laboratory for Materials-Biology Interactions, St. Gallen, Switzerland
09:30–10:00	Pre-Clinical Efficacy of Bone Inducing Ceramics Prof. Dr. Joost D. de Bruijn, Queen Mary University of London, UK, Progentix Orthobiology BV, Bilthoven, The Netherlands	16:30–16:45	Poly-lactide/Hydroxyapatite Electrospun Scaffold for Osteochondral Regeneration Dr. Christiano Spadaccio, University Campus Bio-Medico of Rome, Center of Integrated Research, Italy
10:00–10:30	Cellular Self-Assembly Phenomena: Relevance for Bone Tissue Engineering Prof. Dr. C. James Kirkpatrick, Johannes Gutenberg University, Institute of Pathology, Mainz, Germany	16:45–17:00	Tendon Tissue Engineering: Two Three-Dimensional Culture Systems in Direct Comparison to Monolayer and Native Tendon Christiane Stoll, Charité-University of Medicine, Dept. of Trauma and Reconstructive Surgery, Berlin, Germany
10:30–10:45	Coffee Break // Poster Presentation	17:00–17:15	In Vitro Supplementation of Lyophilized Bone Allografts by Mesenchymal Stem Cells Dr. Zsombor Lacza, Semmelweis University, Budapest, Hungary
10:45–11:15	Vertical Bone Tissue Engineering – a Special Challenge Dr. Karl-Heinz Schuckert, Institute Indente, Hannover, Germany	Convention Center (CC), Saal/room 15/16:	
11:15–11:45	Animal Models for Osteo- and Chondro-Engineering Prof. Dr. Dr. Martijn van Griensven, Prof. Dr. Dr., Ludwig Boltzmann Institute for Experimental and Clinical Traumatology, Vienna, Austria	Symposium 6: Tissue Engineering in Craniofacial Reconstruction	
11:45–12:15	The Value of Laboratory Studies in the Evaluation of Bone Healing Ass. Prof. Dr. Gerald Zimmermann, University of Heidelberg, Theresienkrankenhaus Mannheim, Germany	13:15–13:45	Moderation: Dr. Sanjukta Deb / Prof. Dr. Ashraf Ayoub The Use of BMP for Oro-Facial Reconstruction, Are We There Yet? Prof. Dr. Ashraf Ayoub, Glasgow University, Dept. of Oral and Maxillofacial Surgery, UK
12:15–13:15	Lunch // Poster Presentation	13:45–14:15	Reconstruction of the Facial Skeleton: Clinical Problems and Limitations Dr. George Paolinelis, King's College London, Dept. of Biomaterials, UK
Symposium 4: Fundamental Response of Cells to Matrix and Applied Stresses		14:15–14:30	Surgical Techniques to Compensate for Alveolar Bone Loss During Dental Implant Placement Dr. Subir Banerji, King's College London, Dental Institute, Dept. of Primary Dental Care, UK
Moderation:	Dr. Ralf Kemkemer / Dr. Florian Rehfeldt	14:30–14:45	MSCA-1: Predictor of the Mineralization Potential of Jaw Periosteal Cells Dr. Dorothea Alexander, University Hospital Tübingen, Department of Oral and Maxillofacial Surgery, Germany
13:15–13:45	Matrix Rigidity Optimizes the Polarization of Stem Cells Dr. Florian Rehfeldt, Georg-August-University Göttingen, Germany	14:45–15:00	A Novel Trend for Usage of Autologous Bone Marrow Stromal Cells Harvested from Maxillary Tuberosity by a New Modified Bone Marrow Aspiration/Biopsy Needle for Jaw Bone Regeneration Dr. Aly Eltarawy, Ministry of Health, Alexandria, Egypt
13:45–14:15	The Role of the Cytoskeleton in the Cellular Mechanoresponse Dr. Ralf Kemkener, Max Planck Institute für Metals Research, Stuttgart, Germany		
14:15–14:30	Integration of Highly Dense Collagenous Matrices Seeded with MSCs to Tissue Engineer a Biphasic Osteochondral Construct Mariea Brady, University Hospital Schleswig-Holstein, Clinic of Oral and Maxillofacial Surgery, Kiel, Germany		

15:00–15:15 **Octacalcium Phosphate (OCP) Collagen Composites Enhances Bone Regeneration in a Dog Alveolar Cleft Model**
Prof. Shinji Kamakura, Tohoku University, Graduate School of Biomedical Engineering, Japan

Coffee Break // Poster Presentation

Symposium 7: Clinical Applications

Moderation: Dr. Stefan Jopp / Dr. Gerald Zimmermann

15:30–15:45 **Atrophic Nonunion Fracture Treated by Percutaneous Injection of Preosteoblast Cells: Pilot Study**

Dr. Henry VanCauwenberge, University Hospital Sart-Tilman, Dept. of Orthopaedic, Belgium

15:45–16:00 **Drug Loading and Release Control by a Microporous Hydroxyapatite Elaborated through Colloidal Processing**

Dr. Roxana Chotard-Ghodsnia, CNRS- University of Limoges- ENSCI, UMR 6638, France

16:00–16:15 **Treatment of Coxarthrosis with MADU Method**

Dr. Dusanka Mandic, Madu Clinic, Belgrade, Serbia

16:15–16:30 **In Vivo Autologous Stem Cells Production in Human Bone Marrow Suitable for Bone Surgery**

Pierre Philippart, IRIS South Public Hospitals Brussels, Maxillo Facial Surgery Dept., Belgium

16:30–16:45 **Porous Calcium Phosphate Pellets as Ibuprofen Drug Delivery Systems**

Dr. Marylene Viana, Université de Limoges, CNRS, SPCTS, UMR 6638, France

16:45–17:00 **Contribution of INDUCTOS® to the Rapid Bone Building and Fracture Repair: Results in 40 Patients with Critical-Size Bone Defects**

Dr. Henry VanCauwenberge, University Hospital Sart-Tilman, Dept. of Orthopaedic, Belgium

Sonntag/Sunday, 11.10.2009, 09:00–14:00 Uhr/hrs

09:00–10:15 Students Workshop, Room 15/16

Ass.Prof. Dr. Cornelia Kasper, Leibniz University Hannover, Institute for Technical Chemistry, Germany; Prof. Peter C. Johnson, Headway LifeScience Resources, Raleigh NC, Scintellix, LLC, USA; Prof. Dr. Dr. Martijn van Griensven, Ludwig Boltzmann Institute for Experimental and Clinical Traumatology, Vienna, Austria

10:15–10:30 Coffee Break // Poster Presentation

Main Programme

10:30–11:00 **The Marker Tolerance Technology Opens New Perspectives in Regenerative Medicine**

Prof. Dr. Reinhold G. Erben, University of Vet. Medicine, Vienna, Austria

11:00–11:30 **Comparison of Physiological Bone Healing and Bone Regeneration Using Hydroxyapatite or β -Tricalciumphosphate Alone, or in Combination with Bone Marrow Aspirates or Autologous Bone Marrow Derived Mesenchymal Stem Cells in a Porcine Calvarial Model**

Prof. Dr. Walter Brehm, University of Leipzig, Faculty of Veterinary Medicine, Large Animal Clinic for Surgery, Germany

11:30–12:00 **Mesenchymal Stem Cells for Bone Tissue Engineering Applications**

Ass. Prof. Dr. Cornelia Kasper, Leibniz University Hannover, Institute for Technical Chemistry, Germany

12:00–12:15 Coffee Break // Poster Presentation

12:15–12:45 Advancing Biomaterial Strategies for Bone Regeneration

Dr. F. Kurtis Kasper, Rice University, Dept. of Bioengineering, Houston, USA

12:45–13:15 **First Results and Problems of Stem Cell Based Osteoregeneration in German Landrace Pigs**

Prof. Dr. Dr. Bernhard Frerich, University of Rostock, Clinic of Oral and Maxillofacial and Plastic Facial Surgery, Germany

13:15–13:45 **Reaction of Fibroblasts to Well Controlled External Strain**

Prof. Dr. Rudolf Merkel, Forschungszentrum Jülich, Institute of Bio- and Nanosystems: Biomechanic, Jülich, Germany

13:45–14:00 **Poster Awards**

PEGS Europe – Protein Engineering Summit

Convention Center (CC), Saal/room 1A and 1B

06.10.2009–08.10.2009

Zusammen mit dem Cambridge Healthtech Institute aus den USA bietet die Deutsche Messe diese Gipfelkonferenz zum Thema Proteine und Antikörper an. PEGS hat in den Vereinigten Staaten bereits eine Erfolgsgeschichte. Die PEGS Europe wird sich in einer Themenreihe der Proteinexpression und in einer anderen den Antikörpern widmen. Dabei beschäftigt sich der erste Programmteil der Reihe Proteinexpression mit Aspekten der Zelllinienkonstruktion und der Expressionssysteme, während sich der zweite Teil auf die Isolation und Charakterisierung konzentriert. Bei der Antikörper-Reihe widmet sich der erste Programmteil dem Phagen-Display zur Antikörperfertwicklung und der zweite Teil den therapeutischen Antikörpern, wobei alle Bereiche von der Forschung bis zur Praxis abgedeckt werden.

Weitere Informationen zum Programm finden Sie auf den Seiten 74–84

Together with Deutsche Messe the renowned Cambridge Healthtech Institute (CHI) is featuring an important life science conference at BIOTECHNICA 2009.

PEGS Europe - Protein Engineering Summit builds on the excellent history of CHI's annual PEGS conference in the USA, covering these topics. PEGS Europe will feature a Protein Expression track and an Antibody track. For Protein Expression the first program covers aspects of cell line constructs and expression systems, with Isolation and Characterization highlighted in the second program. Phage Display for Antibody Development is covered in the first program of the other track, followed by Bench to Bedside coverage of Therapeutic Antibodies.

Additional details for this major conference can be found on pages 74–84

Veranstalter/ Organizer Cambridge Healthtech Institute

Suite 300, 250 First Avenue, Needham MA 02494, USA

Language Englisch/English

Teilnahme/ Participation Participation fee incl. V.A.T. and season ticket to the fair (attendance of TWO conferences):

1.495,00 EUR (Commercial)

655,00 EUR (Academic, Government, Hosp. Affiliated)

250,00 EUR (Student)

Participation fee incl. V.A.T. and entrance tickets to the fair (attendance of ONE conference):

1.195,00 EUR (Commercial)

595,00 EUR (Academic, Government, Hosp. Affiliated)

150,00 EUR (Student)

Registration required via Cambridge Healthtech Institute's online at www.pegsummiteurope.com

or on-site registration: Convention Center (CC), Foyer Area

Kontakt/ Contact Chris Waterman

Phone: +1 781-972-5400

Fax: +1 781-972-5425

E-mail: reg@healthtech.com

Phone Registration Desk: +49 511/89-30638

2nd EAPB Conference – Science to Market

Convention Center (CC), Saal/room 3 A

06.10.2009–07.10.2009

EAPB Konferenz – Der Treffpunkt für europäische Forschungseinrichtungen und die biopharmazeutische Industrie

Ziel des europäischen Events ist die Förderung der Zusammenarbeit von Wissenschaft und Industrie im Bereich der pharmazeutischen Biotechnologie, um die Weiterentwicklung von kommerzialisierbaren Technologien und biopharmazeutischen Produkten voranzutreiben. Im Fokus der zweitägigen Konferenz stehen neue biopharmazeutische Arzneimittel- und Diagnostik-Entwicklungen sowie innovative Technologien, die in der Biopharmazeutika-Entwicklung und -Herstellung ihre Anwendung finden.

In Vorträgen, Diskussionen und Posterpräsentationen werden u. a. neue Impfstoffe, Gentherapie-Entwicklungen, Biopharmazeutika der zweiten Generation thematisiert.

EAPB Conference – Platform for European scientific research and biopharmaceutical industry

The goal of this European event is the promotion of collaborations between science and industry in the sector of pharmaceutical biotechnology to enhance the economical output of scientific research and direct them into marketable technologies and biopharmaceutical products. The two day conference focuses on innovative biopharmaceutical drug and diagnostic developments and novel technologies for the development and production of those products.

In lectures, panel discussions and poster presentations second generation biopharmaceuticals, novel vaccines, gene therapy and many more topics will be discussed.

Veranstalter/
Organizer EAPB – European Association of Pharma Biotechnology
in cooperation with Deutsche Messe

Sprache/
Language Englisch/English

Teilnahme/
Participation Participation fee (no VAT requested according to § 4.22 UStG).

Member of EAPB/EFB:
435,00 EUR (Industry)
200,00 EUR (Academia)
135,00 EUR (1st author Poster Presentation)

Non-Member:
470,00 EUR (Industry)
235,00 EUR (Academia)
150,00 EUR (1st author Poster Presentation)

Registration required via Deutsche Messe online at www.biotechnica.de/59794. On-Site
Registration: Convention Center(CC), Foyer Area

Registration via Deutsche Messe
Vesna Koch
Telefon: +49 511 89-31138
Fax: +49 511 89-30998
E-mail: vesna.koch@messe.de

Kontakt/
Contact Dr. Marion Kronabel
EAPB
c/o Technologiepark Heidelberg GmbH
Telefon: +49 6221 3893985
Fax: +49 6221 3893768
E-mail: marion.kronabel@eapb.org

Dienstag/Tuesday, 06.10.2009, 08:30–21:00 Uhr/hrs

08:30	Registration
09:00–09:15	Welcome, Introduction & Opening remarks Wieland W. Wolf, President of the EAPB, Rentschler Biotechnologie GmbH, Laupheim (GER)
09:15–09:45	Treatment of cancer by trifunctional antibodies Horst Lindhofer, Trion Pharma GmbH, Munich (GER)
09:50–10:20	BiTE antibody platform Patrick A. Baeuerle, Micromet AG, Munich (GER)
10:20–10:50	Coffee break
10:50–11:20	Production of therapeutic antibody fragments John Liddell, Head of Process Science, Aveca Biologics, Billingham (GBR)
11:25–11:55	Induced pluripotent stem cells for studies of diseases Tobias Cantz, MPI Münster, Medizinische Hochschule Hannover (GER)
11:55–14:00	Lunch break
14:00–14:30	RNA interference as an antiviral approach Ben Berkhout, University of Amsterdam (NED)
14:30–15:00	Antisense drugs for the treatment of cancer diseases Karl-Hermann Schlingensiepen, Antisense Pharma GmbH, Regensburg (GER)
15:00–15:15	Coffee break
15:15–17:00	Oral poster presentations
17:00–18:00	Networking at poster boards
18:00–19:00	Special key note lecture: How do we stay healthy? – Dr. Darwin explains our evolutionary heritage. Ernst Peter Fischer, University of Konstanz (GER)
19:00–21:00	Social Event

Mittwoch/Wednesday, 07.10.2009, 08:30–14:00 Uhr/hrs

08:30	Registration
09:00–09:30	Diagnosis based on autoantibodies Stefan Müllner, Protagen AG, Dortmund (GER)
09:35–10:05	How to avoid downstream bottlenecks Alois Jungbauer, University of Natural Resources and Applied Life Sciences, Vienna (AUT)
10:05–10:20	Coffee break
10:20–10:50	Multivariate analysis of protein production processes Dethardt Müller, Rentschler Biotechnologie, Laupheim (GER)
10:55–11:15	Recombinant vaccines: Challenges in production, formulation and characterization Robert Schlegl, Intercell AG, Vienna (AUT)
11:20–13:00	Oral poster presentations
13:00–13:15	Closing remarks
13:15–14:00	Networking at poster boards

Stammzellen/Stem Cells – Life Science Spotlight

Halle 9, Stand G 65, (Innovation Forum)

Mittwoch/Wednesday, 07.10.2009, 12:00–14:00 Uhr/hrs

Forum der Life Science Research Unternehmen

Nach dem erfolgreichen Start im letzten Jahr werden sich die Life Science Research Unternehmen (LSR), die im Verband der Diagnostica Industrie (VDGH) organisiert sind, auch wieder auf der BIOTECHNICA 2009 präsentieren. Die LSR Unternehmen sind Hersteller von Instrumenten und Reagenzien im Life-Science-Research-Bereich die sich zusammengeschlossen haben, um ihre Interessen gemeinsam zu vertreten. Sie verstehen sich als kompetente Gesprächspartner auf wissenschaftlicher, wirtschaftlicher, politischer und Anwenderebene. Eines der Ziele ist die Schaffung von Plattformen für den Austausch und die Diskussion forschungsrelevanter Themen auch unter Einbeziehung ethischer und rechtlicher Fragen.

Stammzellen

1998 gelang es amerikanischen Wissenschaftlern erstmals, embryonale Stammzellen des Menschen zu gewinnen. Heute können bereits ausdifferenzierte Zellen reprogrammiert werden und liefern so ein hoffnungsvolles Therapiepotenzial der Zukunft.

Führende Wissenschaftler präsentieren den aktuellen Forschungsstand und gehen auf die Werkzeuge dieser faszinierenden Disziplin ein.

Forum of Life Science Research Companies

*Due to last year's success all the Life Science Research companies (LSR) that are organized in the German Association of Diagnostics Industry (VDGH) will present themselves again at BIOTECHNICA 2009.
These LSR companies are manufacturers of instruments and reagents in the field of Life-Science Research. They have joined forces to present their common interests. They understand themselves as qualified conversational partners on an academic, economic, political and operational level. One of their goals is to create a communication platform for the exchange and discussion of research relevant topics, taking into account ethical and legal questions.*

Stem Cells

For the first time 1998 American Scientists collected human embryonic stem cells. Today fully differentiated cells can get re-programmed and open therapeutic potential for the future. Leading scientists will present the status quo of current research and demonstrate the tools of this fascinating discipline.

**Veranstalter/
Organizer** Verband der Diagnostica-Industrie e.V., Fachabteilung Life Science Research
Neustädtische Kirchstr. 8, D-10117 Berlin

Sprache Deutsch/German

**Teilnahme/
Participation** Teilnahme kostenfrei in Verbindung mit einer Messeeintrittskarte.
Participation free of charge to BIOTECHNICA ticket holders

**Kontakt/
Contact** Dr. Peter Kunze
Telefon: +49 2232 418-165
Fax: +49 2232 418-150
E-mail: kunze.p@eppendorf.de

12:00–12:22 Allogene Stammzellen aus Nabelschnurblut

Dr. Verena Reimann, Institut für Transplantationsdiagnostik und Zelltherapie (ITZ),
Universität Düsseldorf

12:24–12:46 Stammzell – Pathologie

Prof. Björn Scheffler, Institut für Rekonstruktive Neurobiologie, Bonn

12:48–13:10 Quantification of Protein Pluripotency Markers in Human Stem Cells

Astrid Ferlinz, Applied Biosystems

13:12–13:36 Automatisiertes liquid handling bei zellbasierten Toxizitätstests

Dr. Rene Thierbach, TiHo Hannover

13:38–14:00 Stammzelltherapie bei Lebererkrankungen

Dr. Hendryk Aurich, Universität Halle

Erfolge und Chancen in der BioMedizintechnik

Success and opportunities in biomedical technology

Halle 9, Stand E41, Gemeinschaftsstand BIOPRO Baden-Württemberg

Dienstag/Tuesday, 06.10.2009, 12:00–13:00 Uhr/hrs

BioTech meets MedTech! Die Verbindung von Biotechnologie und Medizintechnik birgt nicht nur in Baden-Württemberg – mit seinen mehr als 570 Medizintechnik-, über 150 Biotechnologie-Unternehmen und seiner exzellent strukturierten Forschungslandschaft – enormes wirtschaftliches Potenzial.

Lernen Sie dieses Potenzial in vier spannenden Kurzvorträgen, einer Diskussionsrunde mit den Experten und beim gemeinsamen Lunchbuffet genauer kennen.

BioTech meets MedTech! The combination of biotechnology and medical technology not only has huge economic potential in Baden-Württemberg, which has more than 570 medical technology companies, over 150 biotechnology companies as well as an excellently structured research landscape.

Learn more about this potential by attending four exciting short presentations, a roundtable debate with experts and a buffet lunch open to all participants.

**Veranstalter/
Organizer** BIOPRO Baden-Württemberg GmbH
Breitscheidstr. 10, D-70174 Stuttgart

Sprache Deutsch/German

**Teilnahme/
Participation** Teilnahme kostenfrei in Verbindung mit einer Messeeintrittskarte.
Participation free of charge to BIOTECHNICA ticket holders.

**Kontakt/
Contact** Dr. Peter Nickel
BIOPRO Baden-Württemberg GmbH
Telefon: +49 711/21818505
Fax: +49 711/21818502
E-mail: nickel@bio-pro.de

Moderation: Hubert Romer, Kreativmarketing Romer

12:00–12:10 Biotechnologie und Medizintechnik: Wie gelingt die Vernetzung?
Dr. Ralf Kindervater, BIOPRO Baden-Württemberg GmbH

12:10–12:20 All-in-one: Eine Paketlösung für kolorektale Krebsdiagnostik und -therapie
Jürgen Blume, Concert Medical Optics

12:20–12:30 Künstliche Haut und Leber zur Testung von neuen Wirkstoffen und Materialien
Dr. Johanna Schanz, Fraunhofer IGB

12:30–12:40 REGiNA – Die Zukunft der Regenerativen Medizin
Dr. Manfred Kauer, BioRegio STERN Management GmbH

12:40–13:00 Frage- und Diskussionsrunde und Get together mit Lunchbuffet
Dr. Ralf Kindervater, BIOPRO Baden-Württemberg GmbH; Jürgen Blume, Concert Medical Optics;
Dr. Johanna Schanz, Fraunhofer IGB; Dr. Manfred Kauer, BioRegio STERN Management GmbH

Diagnostics

Methods in molecular Diagnostics – Life Science Spotlight

Halle 9, Stand G 65, (Innovation Forum)

Donnerstag/Thursday, 08.10.2009, 12:00–14:00 Uhr/hrs

Forum der Life Science Research Unternehmen

Nach dem erfolgreichen Start im letzten Jahr werden sich die Life Science Research Unternehmen (LSR), die im Verband der Diagnostica Industrie (VDGH) organisiert sind, auch wieder auf der BIOTECHNICA 2009 präsentieren.

Die LSR Unternehmen sind Hersteller von Instrumenten und Reagenzien im Life-Science-Research-Bereich die sich zusammengeschlossen haben, um ihre Interessen gemeinsam zu vertreten. Sie verstehen sich als kompetente Gesprächspartner auf wissenschaftlicher, wirtschaftlicher, politischer und Anwenderebene. Eines der Ziele ist die Schaffung von Plattformen für den Austausch und die Diskussion forschungsrelevanter Themen auch unter Einbeziehung ethischer und rechtlicher Fragen.

Von Experten wird der neueste Stand der Technik in den verschiedenen Bereichen der molekularen Diagnostik vorgestellt.

Forum of Life Science Research Companies

Due to last year's success all the Life Science Research companies (LSR) that are organized in the German Association of Diagnostics Industry (VDGH) will present themselves again at BIOTECHNICA 2009.

These LSR companies are manufacturers of instruments and reagents in the field of Life-Science Research. They have joined forces to present their common interests. They understand themselves as qualified conversational partners on an academic, economic, political and operational level. One of their goals is to create a communication platform for the exchange and discussion of research relevant topics, taking into account ethical and legal questions.

Latest enhancements of molecular methods in the different areas of diagnostics will be presented by experts in their field.

Veranstalter/
Organizer Verband der Diagnostica-Industrie e.V., Fachabteilung Life Science Research
Neustädtische Kirchstr. 8, D-10117 Berlin

Sprache Deutsch/German

Teilnahme/
Participation Teilnahme kostenfrei in Verbindung mit einer Messeeingangskarte.
Participation free of charge to BIOTECHNICA ticket holders

Kontakt/
Contact Dr. Peter Kunze
Telefon: +49 2232 418-165
Fax: +49 2232 418-150
E-mail: kunze.p@eppendorf.de

12:00–12:15 Deutsch **Advantages of measuring bead assays by image processing**
Jörg Nitschke, Hochschule Lausitz, Senftenberg

12:17–12:32 Deutsch **Molecular multiparameter analysis for the diagnosis of infectious diseases**
Prof. Fritz Schwarzmann, BioMérieux, Grenoble

12:35–12:50 Deutsch **Advanced Next Generation Sequencing Solutions**
Knut Hamann, Invitrogen GmbH, Karlsruhe

13:07–13:22 Deutsch **FISH**
Sven Poppert, Bernhard Nocht Institut, Hamburg

Biomanufacturing

2nd Biomanufacturing Symposium

Convention Center (CC), Saal/room 3 B

07.10.2009, 11:30–18:00 Uhr/hrs

For the second time BIOTECHNICA 2009 will host the Biomanufacturing Symposium. The symposium addresses the current topics and upcoming trends the biopharmaceutical industry is facing, concerning the manufacturing of its products for development steps and market supply. This year's 2nd edition focuses on three different areas of the biomanufacturing business:

- Cooperation strategies of Drug Developers and Manufacturers
- Particularities in Biosimilars Process Development
- The Value of Early Process Validation

This year's symposium is increasingly focusing on topics which are of value for all parties *dealing with manufacturing of new products – be it drug developing biotechs, contract manufacturing organizations or big pharmaceutical companies*. Each topic will be covered in a specific session composed of a presentation part with leading experts giving short presentations and a subsequent moderated panel discussion with all lecturers discussing the topic and questions from the audience.

Biomanufacturing participants are invited to visit Richter-Helm's fully modernised state of the art GMP production facility for biopharmaceuticals on Wednesday, 7 October at 8.30 a.m. or on Thursday, 8 October at 9.00 a.m.

Additionally, participants of the Biomanufacturing Symposium have the opportunity of attending the EAPB Conference – Science to Market (7 October only) at a discounted rate! Just choose the option in the registration form.

Veranstalter/
Organizer Capgemini Deutschland GmbH
Karlstr. 12, D-80333 München
in cooperation with Deutsche Messe

Language English

Teilnahme/
Participation Participation fee (+ V.A.T.) and entrance ticket to the fair:
280,00 EUR Industry
140,00 EUR Academia/Public Institutions
10,00 EUR Students

Registration required online at www.biotechnica.de/60332.
On-site registration: Convention Center (CC), Foyer Area

Registration via Deutsche Messe
Sonja Wicke
Telefon: +49 511 89-33575
Fax: +49 511 89-30998
E-mail: sonja.wicke@messe.de

Kontakt/
Contact Dr. Jan Farfsing
Capgemini Consulting
Telefon: +49 89 9400 1123
Fax: +49 89 9400 1124
E-mail: jan.farfsing@capgemini.com

Pre-Programme (Wednesday, 7 October and Thursday, 9 October 2009)

Richter-Helm Biologics Production site, Feodor-Lynen-Str. 5, 30625 Hannover

08:30–11:00 Visit of Richter-Helm's fully modernised state of the art GMP production facility for biopharmaceuticals

Participants are invited to visit Richter-Helm's fully modernised state of the art GMP production facility for biopharmaceuticals.

The modernisation of the production area in 2008/2009 has led to a highly sophisticated small-scale facility with a fermentation volume of up to 200L and corresponding down-stream capacities. Richter-Helm will offer insights into the GMP concept being followed throughout its design and construction. In addition, Richter-Helm will present modes of operation required for strict compliance with all GMP guidelines. Transfer will be provided.

Mittwoch/Wednesday, 07.10.2009

11:30–11:35 Opening remarks

Dr. Jan Farfsing, Capgemini Consulting

Session 1: Cooperation of Drug Developers and Manufacturers

Chair: Dr. Klaus Schoepe, Senior Vice President Projects, Rentschler Biotechnologie GmbH

11:35–11:55 Improving DSP productivity: Reduction of processing operations using EBA Technology

Dr. Timo May, Head of Downstream Processing, Richter-Helm BioLogics GmbH & Co. KG

11:55–12:15 Establishing cost effective and reliable contract manufacturing and development relationships

Dr. Klaus Drexler, Vice President Chemistry Manufacturing Controls, MediGene AG

12:15–12:35 Development and manufacturing of trifunctional antibodies

Dr. Dirk Pelster, Chief Operating Officer, TRION Pharma GmbH

12:35–13:30 Panel discussion

Dr. Timo May, Head of Downstream Processing, Richter-Helm BioLogics GmbH & Co. KG;

Dr. Klaus Drexler, Vice President Chemistry Manufacturing Controls, MediGene AG;

Dr. Dirk Pelster, Chief Operating Officer, TRION Pharma GmbH

13:30–14:30 Lunch break

Session 2: Particularities in Biosimilars Process Development

Chair: Prof. Dr. Rolf Werner, Corporate Senior Vice President Biopharmaceuticals, Boehringer Ingelheim GmbH

14:30–14:50 Paradigm shift in biosimilar development and manufacturing through expression yields and disposables

Dr. Hermann Allgaier, Chief Executive Officer, Merckle Biotec GmbH

14:50–15:10 Regulatory background of biosimilars

Dr. Katrin Buss, Quality Assessor, Unit Pharmaceutical Biotechnology, Biologics, Inspections Quality Federal Institute for Drugs and Medical Devices (BfArM)

15:10–15:30 Refreshment break

Session 3: The Value of Early Process Validation

Chair: Prof. Dr. Rolf Werner, Corporate Senior Vice President Biopharmaceuticals, Boehringer Ingelheim GmbH

15:30–15:50 Modern trends in lean process development:

Optimizing complex downstream process steps by „Design of Experiments“

Dr. Felix Oehme, Senior Scientist Biotech Development, Bayer Schering Pharma AG

15:50–16:10 Early process validation in API contract manufacturing:

Client concerns versus regulatory expectations?

Markus Hofbauer, Manager Regulatory Affairs, Wacker Biotech GmbH

16:10–17:30 Panel discussion

Dr. Hermann Allgaier, Chief Executive Officer, Merckle Biotec GmbH;

Dr. Katrin Buss, Quality Assessor Pharmaceutical Biotechnology, Biologics, Inspections Quality, Federal Institute for Drugs and Medical Devices (BfArM);

Dr. Felix Oehme, Senior Scientist Biotech Development, Bayer Schering Pharma AG;

Markus Hofbauer, Manager Regulatory Affairs, Wacker Biotech GmbH

17:30–18:00 Get-together

Agrifood Biotechnology

Molekularbiologische Lebensmittelanalytik – das Zukunftsfeld

Molecular Food Analysis – The Future

Convention Center (CC), Saal Bonn 1

Mittwoch/Wednesday, 07.10.2009, 14:00–18:00 Uhr/hrs

Qualität, Sicherheit, Kennzeichnungsvorschriften und vieles mehr stellen hohe Anforderungen an Lebensmittelproduzenten und -handel. Moderne schnelle und zuverlässige analytische Verfahren bieten hier ein Tool zur Gewährleistung dieser Anforderungen. Die molekularbiologischen Methoden erlauben das Erkennen von pathogenen Mikroorganismen, von Zutaten aus gentechnisch veränderten Organismen oder Allergenen in Lebensmitteln. Erfahren Sie, was die molekularbiologische Analytik leisten kann und welche Vorteile sie Ihrem Unternehmen bietet.

Quality, safety and labeling regulations are just some of the many issues that pose major challenges for food producers and retailers. State-of-the-art analytical processes that are both fast and reliable are a useful tool in getting to grips with these challenges. Molecular methods enable the identification of pathogenic microorganisms, ingredients manufactured from genetically modified organisms and allergens in foodstuffs. At the symposium you can discover the potential of molecular analysis and the benefits it can have for your company.

Veranstalter/ Organizer	B. Behr's Verlag GmbH Averhoffstr. 10, D-22085 Hamburg <i>in Zusammenarbeit mit:</i> Life-Science-Research Unternehmen im Verband der Diagnostica-Industrie
Sprache	Deutsch/German
Teilnahme/ Participation	Teilnahmegebühr inkl. Messeeingangskarte EUR 398,00 (zzgl. gesetzl. MwSt). Anmeldung erforderlich online unter www.behrs.de oder direkt vor Ort: Convention Center, Saal Bonn
Kontakt/ Contact	Susann Luttermann B. Behr's Verlag GmbH Telefon: +49 40/227 008 62 Fax: +49 40/227 008 62 E-mail: sl@behrs.de
14:00–14:15	Eröffnung des Workshops Prof. Dr. Klaus-Dieter Jany
14:15–15:15	Real Time PCR und Lebensmittelmikrobiologie: „State of the art“ und Perspektiven Pathogene Mikroorganismen, Zoonosen, Probiotika, Risikobeurteilung, Schnellnachweisverfahren Dr. Matthias Kuhn, Geschäftsführender Gesellschafter, CONGEN Biotechnologie GmbH
15:15–16:15	Allergenanalytik bei Lebensmitteln Rechtliche Grundlagen, Übersicht zu den Nachweismethode (ELISA und PCR), Untersuchungsergebnisse, Schwellenwertproblematik Dr. Ulrich Busch, Regierungsdirektor und Sachbereichsleiter Molekularbiologie, Bayerisches Landesamt für Gesundheit und Lebensmittelsicherheit
16:15–16:30	Kaffeepause
16:30–17:30	Gentechnische Veränderungen in Lebensmitteln – Was kann die Analytik leisten? Rechtliche Vorgaben, Nachweismöglichkeiten, Untersuchungsstrategien, Aktuelle Untersuchungsergebnisse, Grenzen der Analytik Hans-Ulrich Waiblinger, Leiter Labor zum Nachweis gentechnisch veränderter Lebensmittel in Baden-Württemberg
17:30–18:00	Podiumsdiskussion: Diskussion mit einem Referenten aus der Industrie zu einem aktuellen Thema aus den Bereichen Moderation: Prof. Dr. Klaus-Dieter Jany

Bio-based Economy

Bio-Based Economy Conference

Convention Center (CC), Saal/room Boni

Dienstag/Tuesday, 06.10.2009, 09:15–18:30 Uhr/hrs

Top European experts from Science, Industry and Politics will present and discuss current developments, trends, obstacles and perspectives of Europe's science and industry on the way towards a bio-based economy. We will showcase current concepts of integrated biorefineries, and address important issues and challenges in science and industry.

Leading experts in the field like Maive Rute (Director Biotechnologies, Agriculture and Food, DG Research, European Commission) will present their recommendations and strategies.

In our globalized world, scientific and technological advances are no longer isolated achievements, they can only be accomplished by cooperating and exchanging ideas across the world.

Be part of an important gathering of science, industry and politics. The BBEC represents an ideal platform for new insights and new contacts.

<i>Veranstalter/ Organizer</i>	Capgemini Deutschland GmbH Karlstr. 12, D – 80333 München in cooperation with Deutsche Messe
<i>Language</i>	English
<i>Teilnahme/ Participation</i>	Participation fee (+ V.A.T.) and ticket to the fair: 50,00 EUR Industry 30,00 EUR Academia/Public Institutions 10,00 EUR Students Registration required online at www.biotechnica.de/60956 <u>On-site registration:</u> Convention Center (CC), Foyer Area
	<u>Registration via Deutsche Messe</u> Sonja Wicke Telefon: +49 511 89-33575 Fax: +49 511 89-30998 E-mail: sonja.wicke@messe.de
<i>Kontakt/ Contact</i>	Dr. Jan Farfsing Capgemini Consulting Telefon: +49 89 9400 1123 Fax: +49 89 9400 1124 E-mail: jan.farfsing@capgemini.com

Opening Session

09:15–09:25	Welcome and Opening Remarks Marc Reinhardt, Vice President, Member of the Country Board, Capgemini, Germany
09:25–09:40	Perspectives for the European Knowledge based Bioeconomy Maive Rute, Director Biotechnologies, Agriculture and Food, DG Research, European Commission, Belgium
09:40–09:55	Building the Bio-based Economy: It's about a lot more than Technology Willy De Greef, Secretary General, EuropaBio, Belgium

Session 1: Renewable Resources from Agriculture and Forestry

Chair:	Dr. Sabine Brand, Managing Consultant Life Sciences, Capgemini Consulting, Germany
09:55–10:10	Renewable raw materials for Industry and Energy – Contributions to sustainability Dr. Andreas Schütte, Managing Director, Fachagentur Nachwachsende Rohstoffe e.V. (FNR) and President of European Renewable Raw Materials Association (ERRMA), Germany
10:10–10:25	Food Security in a Bio-based Economy – Risks and Challenges for Modern Agriculture Prof. Dr. Wilhelm Gruissem, Chair of the Department of Biology, Plant Sciences, ETH Zurich and President of the EPSO Board, Switzerland
10:25–10:40	Availability of sustainable biomass feedstocks for energy Dr. Satu Helynen, Vice President, R&D, Energy and Pulp&Paper, VTT Technical Research Centre, Finland
10:40–10:55	Q&A session with all speakers Dr. Andreas Schütte, Managing Director, Fachagentur Nachwachsende Rohstoffe e.V. (FNR) and President of European Renewable Raw Materials Association (ERRMA), Germany; Prof. Dr. Wilhelm Gruissem, Chair of the Department of Biology, Plant Sciences, ETH Zurich and President of the EPSO Board, Switzerland; Dr. Satu Helynen, Vice President, R&D, Energy and Pulp&Paper, VTT Technical Research Center, Finland
10:55–11:15	Refreshment break

Session 2: Technologies of Integrated Biorefineries

Chair:	Dr. Jan Farfsing, Senior Consultant Life Sciences, Capgemini Consulting, Germany
11:15–11:30	Connecting Industrial Biotechnology with Chemical Manufacturing by an integrated Biorefinery approach Dr. Markus Wolperdinger, Site Development, InfraLeuna GmbH, Germany
11:30–11:45	The Roquette Biorefinery past and future Philippe Bosquillon de Jenlis, Project Manager Vegetal Based Chemistry, Roquette Frères S.A., France
11:45–12:00	Second Generation Bioethanol: Challenges and Perspectives Dr. Markus Rabach, Head of Biocatalysis Corporate Research and Development, Süd-Chemie AG, Germany
12:00–12:15	Q&A session with all speakers Dr. Markus Wolperdinger, Site Development, InfraLeuna GmbH, Germany; Philippe Bosquillon de Jenlis, Project Manager Vegetal Based Chemistry, Roquette Frères S.A., France; Dr. Markus Rabach, Head of Biocatalysis Corporate Research and Development, Süd-Chemie AG, Germany
12:15–13:45	Lunch break

Session 3: Energy, Chemicals and other Resources from Integrated Biorefineries

Chair:	Dr. Christian Patermann, Director ret., DG RTD, European Commission, Germany
13:45–14:00	Evonik Industries pushes Industrial Biotechnology Dr. Manfred Kircher, Director Networks Industrial Biotechnology, Evonik Industries AG, Germany
14:00–14:15	Biorefinery products: Succinic Acid as a sustainable platform chemical Dr. Mirko Kranenburg, Program Manager, DSM White Biotechnology B.V., Netherlands
14:15–14:30	Biorefinery: An opportunity for the launching of a widely-integrated Joint Call for Proposals Dr. Alfredo Aguilar Romanillos, Head of Unit Biotechnology, Directorate Biotechnologies, Agriculture and Food, DG Research, European Commission, Belgium
14:30–14:45	Biomass for Energy – Needs and trends Prof. Dr.-Ing. Martin Kaltschmitt, Scientific Managing Director, German Biomass Research Centre, Leipzig, and Hamburg University of Technology, Germany

14:45–15:00

Volkswagen's view on Biofuels – Experiences and Outlook

Dr. Frank Seyfried, Head of the Fuels and Fuel Cells Department of Group Research, Volkswagen AG and Member of the Steering Committee Biofuels Technology Platform, Germany
Q&A session with all speakers
Dr. Manfred Kircher, Director Networks Industrial Biotechnology, Evonik Industries AG, Germany; Dr. Mirko Kranenburg, Program Manager, DSM White Biotechnology B.V., Netherlands; Dr. Alfredo Aguilar Romanillos, Head of Unit Biotechnology, Directorate Biotechnologies, Agriculture and Food, DG Research, European Commission, Belgium; Prof. Dr.-Ing. Martin Kaltschmitt, Scientific Managing Director, German Biomass Research Centre, Leipzig, and Hamburg University of Technology, Germany; Dr. Frank Seyfried, Head of the Fuels and Fuel Cells Department of Group Research, Volkswagen AG and Member of the Steering Committee Biofuels Technology Platform, Germany
Refreshment break

Session 4: Bioeconomies

Chair:	Dr. Jan Farfsing, Senior Consultant Life Sciences, Capgemini Consulting, Germany
15:40–15:55	Mater-Bi® – from renewable resources to Bioplastics Dr. Friedrich von Hesler, Area Manager Germany, Novamont GmbH, Germany
15:55–16:10	Spider silk – Production and processing of a fascinating Biopolymer Prof. Dr. Thomas Scheibel, Biomaterials Research Group, Faculty of Engineering Science, University of Bayreuth, Germany
16:10–16:25	New products and processes integrated into Pulp & Paper mills Timo Heikka, Director Policies, Regulations & Feedstocks, Stora Enso Biorefining & Bioenergy, Stora Enso Oyj, Finland
16:25–16:40	Bio-based Economy in the field of fast moving consumer goods – Sustainable detergents Dr. Karl-Heinz Maurer, R&D Director Biotechnology, Henkel AG & Co. KGaA, Germany
16:40–17:00	Q&A session with all speakers Dr. Friedrich von Hesler, Area Manager Germany, Novamont GmbH, Germany; Prof. Dr. Thomas Scheibel, Biomaterials Research Group, Faculty of Engineering Science, University of Bayreuth, Germany; Timo Heikka, Director Policies, Regulations & Feedstocks, Stora Enso Biorefining & Bioenergy, Stora Enso Oyj, Finland; Dr. Karl-Heinz Maurer, R&D Director Biotechnology, Henkel AG & Co. KGaA, Germany
Chair:	Dr. Christian Patermann, Director ret. DG RTD, European Commission, Germany
17:00–18:30	Panel Discussion Dr. Alfredo Aguilar Romanillos, Head of Unit Biotechnology, Directorate Biotechnologies, Agriculture and Food, DG Research, European Commission, Belgium; Willy De Greef, Secretary General, EuropaBio, Belgium Prof. Dr. Arnd Hoeveler, Head of Unit Health Biotechnology, Health Directorate, DG Research, European Commission, Belgium; Dr. Tomas Jonsson, Policy Officer Biotechnology and Coordinator of the Lead Market Initiative for Biobased Products, DG Enterprise & Industry, European Commission, Belgium; Dr. Christian Müller, Assistant Head of the Division Nutrition and Renewable Resources, German Federal Ministry of Education and Research (BMBF), Germany; Dr. Henning von der Ohe, Head of Corporate Development and Communication, KWS Saat AG, Germany

Neue Impulse für die Bioenergie
Halle 9, Stand E41, Gemeinschaftsstand BIOPRO Baden-Württemberg
Mittwoch/Wednesday, 07.10.2009, 16:30–17:30 Uhr/hrs

Experten aus Baden-Württemberg informieren und diskutieren über aktuelle Chancen und Herausforderungen der Bioenergie. Im Mittelpunkt stehen dabei Konzepte und Innovationen aus Baden-Württemberg, die eine effiziente und nachhaltige Nutzung der Bioenergie ermöglichen.

Veranstalter/ Organizer	BIOPRO Baden-Württemberg GmbH Breitscheidstr. 10, D-70174 Stuttgart
Sprache	Deutsch/German
Teilnahme/ Participation	Teilnahme kostenfrei in Verbindung mit einer Messeeingangskarte. <i>Participation free of charge to BIOTECHNICA ticket holders.</i>
Kontakt/ Contact	Dr. Martin Follmann BIOPRO Baden-Württemberg GmbH Telefon: +49 711/21818518 Fax: +49 711/21818502 E-mail: follmann@bio-pro.de

<u>Moderation:</u>	Dr. Ralf Kindervater, BIOPRO Baden-Württemberg GmbH; Hubert Romer, Kreativmarketing Romer
16:30–16:40 Bioenergie im Energiekonzept von Baden-Württemberg und Landesaktivitäten zur Umsetzung	
	Konrad Raab, Wirtschaftsministerium Baden-Württemberg, Referat für regenerative Energien und rationelle Energieanwendung
16:40–16:50 Biogas – effiziente Erzeugung und nachhaltige Nutzung	
	Dr. Andreas Lemmer, Universität Hohenheim, Landesanstalt für Agrartechnik und Bioenergie
16:50–17:00 Biomasse 3.0: Mikroalgen als nachwachsender Rohstoff	
	Prof. Dr. Clemens Posten, Universität Karlsruhe, Institut für Bio- und Lebensmitteltechnik
17:00–17:30 Podiumsdiskussion mit den Experten	
	Konrad Raab, Wirtschaftsministerium Baden-Württemberg, Referat für regenerative Energien und rationelle Energieanwendung; Dr. Andreas Lemmer, Universität Hohenheim, Landesanstalt für Agrartechnik und Bioenergie; Prof. Dr. Clemens Posten, Universität Karlsruhe, Institut für Bio- und Lebensmitteltechnik

Bio-Informatics

Bio-IT World Europe
Convention Center (CC), Saal/rooms 13/14, 15/16
06.10.2009–08.10.2009

Die Bio-IT World Europe baut auf dem großen Erfolg der jährlich in Boston, Massachusetts, stattfindenden Bio-IT World Conference & Expo auf. Das erste Programm der Bio-IT World Europe bietet vier Veranstaltungsreihen, darunter IT-Hardware und -Software im Bereich Life Sciences, Bioinformatik für die Genomik sowie Datenintegration und Wissensmanagement. Präsentiert werden Fallstudien von Best-Practice-Lösungen, die die Technologie-, Forschungs- und Regulierungsaspekte des Life-Science-Bereichs betreffen und für Pharmazeuten, Klinikexperten und IT-Fachleute gleichermaßen von Interesse sind.

IT und Informatik sind dank der immer schneller werdenden Datengenerierung – von der Genomik und den Biomarkern auf der biologischen Seite bis zu schnellen und datenintensiven Screening- und High-Content-Imaging-Verfahren – zu Schlüsselbereichen für die Verbesserung der Forschungsproduktivität geworden.

Weitere Informationen zum Programm finden Sie auf den Seiten 64–73

Together with Deutsche Messe the renowned Cambridge Healthtech Institute (CHI) is featuring an important life science conference at BIOTECHNICA 2009.

With the rapid growth in high throughput data generation, from genomics and biomarkers on the biological side to faster high throughput screening and high content imaging, IT and informatics has become increasingly crucial for improving research productivity.

Bio-IT World Europe builds on the strong success of the company's annual Bio-IT World Conference & Expo, which takes place again in Boston on April 27–29. Bio-IT Europe will feature one track featuring key developments in IT Infrastructure for Life Sciences. The other concurrent track features two programs, one on Bioinformatics for Genomics, and the other on Data Integration and Knowledge Management.

Additional details for this major conference can be found on pages 64–73

Veranstalter/ Organizer	Cambridge Healthtech Institute (Bio-IT Europe) Suite 300, 250 First Avenue, Needham MA 02494, USA
Language	Englisch/English
Teilnahme/ Participation	<u>Participation fee incl. V.A.T. and season ticket to the fair (attendance of TWO conferences):</u> 1.495,00 EUR (Commercial) 705,00 EUR (Academic, Government, Hosp. Affiliated) 250,00 EUR (Student)
	<u>Participation fee incl. V.A.T. and entrance tickets to the fair (attendance of ONE conference):</u> 1.195,00 EUR (Commercial) 595,00 EUR (Academic, Government, Hosp. Affiliated) 150,00 EUR (Student)

Registration required via Cambridge Healthtech Institute's online at www.bio-itworldexpoeurope.com or on-site registration: Convention Center (CC), Foyer Area

Kontakt/ Contact	Chris Waterman Phone: +1 781-972-5400 Fax: +1 781-972-5425 E-mail: reg@healthtech.com
Phone Registration Desk: +49 511/89-30638	

Enabling Technologies

Optimized Protein Expression – Life Science Spotlight

Halle 9, Stand G 65, (Innovation Forum)

Donnerstag/Thursday, 08.10.2009, 12:00–14:00 Uhr/hrs

Forum der Life Science Research Unternehmen

Nach dem erfolgreichen Start im letzten Jahr werden sich die Life Science Research Unternehmen (LSR), die im Verband der Diagnostica Industrie (VDGH) organisiert sind, auch wieder auf der BIOTECHNICA 2009 präsentieren. Die LSR Unternehmen sind Hersteller von Instrumenten und Reagenzien im Life-Science-Research-Bereich die sich zusammengeschlossen haben, um ihre Interessen gemeinsam zu vertreten. Sie verstehen sich als kompetente Gesprächspartner auf wissenschaftlicher, wirtschaftlicher, politischer und Anwenderebene. Eines der Ziele ist die Schaffung von Plattformen für den Austausch und die Diskussion forschungsrelevanter Themen auch unter Einbeziehung ethischer und rechtlicher Fragen.

Erfahrene Anwender zeigen anhand praktischer Beispiele aus ihrem Fachbereich den Weg zur bestmöglichen Proteinexpression. Im Vordergrund stehen Technologien und Verfahren.

Forum of Life Science Research Companies

Due to last year's success all the Life Science Research companies (LSR) that are organized in the German Association of Diagnostics Industry (VDGH) will present themselves again at BIOTECHNICA 2009. These LSR companies are manufacturers of instruments and reagents in the field of Life-Science Research. They have joined forces to present their common interests. They understand themselves as qualified conversational partners on an academic, economic, political and operational level. One of their goals is to create a communication platform for the exchange and discussion of research relevant topics, taking into account ethical and legal questions.

Experienced users will show strategies to maximize protein expression in their fields of application. The focus is on technologies and procedures.

Veranstalter/
Organizer Verband der Diagnostica-Industrie e.V., Fachabteilung Life Science Research
Neustädtische Kirchstr. 8, D-10117 Berlin

Sprache/
Language Deutsch/German

Teilnahme/
Participation Teilnahme kostenfrei in Verbindung mit einer Messeeingangskarte.
Participation free of charge to BIOTECHNICA ticket holders

Kontakt/
Contact Dr. Peter Kunze
Telefon: +49 2232 418-165
Fax: +49 2232 418-150
E-mail: kunze.p@eppendorf.de

12:50–13:05 **Der Einsatz von in vitro Translationssystemen in der zellbiologischen Grundlagenforschung**
Dr. Bastian Hülsmann, Max-Planck-Institut für biophysikalische Chemie, Göttingen

13:25–13:40 **Identifizierung und Quantifizierung von Proteinen mit der Chip-HPLC-LC-MS Technik**
Dr. Robert Ahrends, Universitätsklinikum Eppendorf, Hamburg

13:43–14:00 **Baculovirus Expressionssystem im kontinuierlichen Prozess**
Christoph Lindenberger, Universität Erlangen

Advanced Methods in PCR – Life Science Spotlight

Halle 9, Stand G 65, (Innovation Forum)

Dienstag/Tuesday, 06.10.2009, 12:00–14:00 Uhr/hrs

Die Polymerase-Kettenreaktion ist die zentrale Methode der Molekularbiologie. Anwender aus den verschiedensten Bereichen stellen neue, raffinierte Methoden und überraschende Einsatzgebiete vor.

The Polymerase Chain Reaction is the central method in molecular biology. Users from different fields will present new, tricky methods and surprising applications.

12:00–12:30 **Minimalanforderungen für die Publikation von quantitativen Real-Time PCR Experimenten**

Dr. Michael Pfaffl, TATAA Biocenter, Weihenstephan

12:30–13:00 **Quantitative Multiplex PCR und Zeitersparnis in der Lebensmittelanalyse**

Dr. René Köppel, Kantonales Labor Zürich

13:00–13:30 **PCR Technology – Workflow Integration**

Dr. Kai Oliver Wesche, Applied Biosystems

13:30–14:00 **Schnelltestsystem zur Identifikation human pathogener Erreger in Zecken mit rapidPCR**

Claus Knippschild, Analytik Jena

Micro Total Analysis Systems – Prospects, Applications and Commercialisation

Convention Center (CC), Saal/room München

Mittwoch/Wednesday, 07.10.2009, 10:00–16:30 Uhr/hrs

Der Workshop bietet einen fachübergreifenden Überblick über die Chancen, Anwendungsmöglichkeiten und Vermarktung von Micro Total Analysis Systeme und aktuelle Forschungs- sowie Entwicklungsergebnisse. Redner aus führenden Industriezweigen berichten von ihren Erfahrungen und zeigen vielfältige Einsatzbereiche von der Diagnostik bis zur industriellen Analytik auf, um Unternehmen, die über die Einführung dieser Technologie nachdenken, eine Entscheidungsgrundlage an die Hand zu geben.

The workshop provides an interdisciplinary overview of the Prospects, Applications and Commercialisation of Micro Total Analysis Systems, and current research and development results. Speakers from leading industries report about their experiences and show a variety of application areas from diagnostics to industrial analysis to give companies, that think about the implementation of this technology, a basis for their decision.

Veranstalter/
Organizer IMM Institut für Mikrotechik Mainz GmbH
Carl-Zeiss-Str. 18–20, D-55129 Mainz

Language Englisch/English

Teilnahme/
Participation Participation free of charge to BIOTECHNICA ticket holders. Registration requested via IMM
Institut für Mikrotechik Mainz GmbH online at www.imm-mainz.de or by e-mail.

Kontakt/
Contact Julia Lang
Telefon: +49 6131-990 490
Fax: +49 6131-990 205
E-mail: Lang@imm-mainz.de

10:00–10:10 **Welcome**

Klaus Stefan Drese, Institut für Mikrotechik Mainz GmbH

10:10–10:40 **Droplets & Microfluidics: Novel Tools in High-Throughput Biology**

Andrew de Mello, Imperial College London

10:40–11:10 **µTAS for In-vitro Diagnostics: Technical Beauty and the Marketability Beast**

Carlo Effenhauser, Roche Diagnostics GmbH

11:10–11:20 **Discussion**

Coffee Break

11:40–12:00	QIAGEN – Sample and Assay Technologies. Integrated Microsystems for Sample and Assay Technologies Andy Wende, Qiagen GmbH
12:00–12:20	Fluidic System for Bacteria Detection in Water Alois Friedberger, EADS
12:20–12:40	Screening Technology for Diagnosis of Pre-cancer at the Doctors Office Frank Karlsen, NorChip AS
12:40–13:00	Integrated Bioelectronic Lab-on-a-Chip System Peter Paulicka, Siemens AG
13:00–13:10	Discussion
13:10–14:15	Lunch Break
14:15–14:35	Microfluidic Based pH-controlled Fed-batch Processes in Disposable Microtiter Plates Frank Kensy, m2p-labs GmbH
14:35–14:55	µAnalyser Based on Titration Method Jürgen Peters, Schott Instruments
14:55–15:00	Discussion
15:00–15:20	Coffee Break
15:20–15:40	Microfluidic Market and Technology Trends Frédéric Breussin, Yole Développement
15:40–16:00	Micro Manufacturing Capabilities Supporting µTAS Commercialisation Lutz Weber, thinxxs Microtechnology AG
16:00–16:20	Rollercoaster Towards Commercialisation of a BioMEMS-based Device Marco Di Berardino, Leister Process Technologies
16:20–16:30	Discussion

**Vom Geno- zum Phänotyp: Innovative Ansätze für die Gen- und Zell-Forschung
*From Cell to Genome to Gene Function: Enabling Technologies for Life Science***
Convention Center (CC), Saal Heidelberg
Mittwoch/Wednesday, 07.10.2009, 13:30–16:00 Uhr/hrs

Roche Applied Science präsentiert in diesem Forum:

- den Quantensprung in der Real-Time PCR Analytik für die Gencharakterisierung im großem Maßstab
- die automatisierte Nukleinsäureaufreinigung für das Hochdurchsatzlabor
- die ultraschnelle Hochdurchsatz-Sequenzierung für die Forschung und die Diagnostik von morgen mit breitem Applikationsspektrum durch lange Leseweite
- das markierungsfreie Online-Monitoring in Zellinvasions- und Zellmigrations-Assays
- die neueste Generation der bildbasierten Zellzähl- und Zellanalysesysteme

Nutzen Sie die Chance mit Experten zu diskutieren!

In this Forum, Roche Applied Science will present:

- A quantum leap in high throughput real time PCR analysis for genotyping
- Automated nucleic acid purification for high throughput laboratories
- Ultra-rapid high throughput sequencing with broad application spectrum and long reads for tomorrow's research and diagnostics
- Label-free online monitoring in cell invasion and migration assays
- The latest generation of image-based cell counter and analysis systems

Use the opportunity for discussions with our technology experts!

Veranstalter/ Organizer	Roche Diagnostics GmbH Fachliche Information, Sandhofer Str. 116, D-68305 Mannheim
Sprache	Deutsch/German
Teilnahme/ Participation	Teilnahme kostenfrei in Verbindung mit einer Messeeingangskarte. Participation free of charge to BIOTECHNICA ticket holders.
Kontakt/ Contact	Roche Diagnostics GmbH Fachliche Information Telefon: +49 621 759 8568 Fax: +49 621 759 4083 E-mail: mannheim.biocheminfo@roche.com

13:30–14:00	Neue Wege der zellulären Analyse mit Systemen von Roche Applied Science Dr. Markus Scheuermann, Roche Diagnostics GmbH, Penzberg
14:00–14:30	Die MagNA Pure Systeme von Roche Applied Science - automatisierte Nukleinsäureaufreinigung der nächsten Generation Claudia Kappelsberger, Roche Diagnostics GmbH, Penzberg
14:30–15:00	LightCycler® Analysesysteme – Ein Quantensprung in der Real-Time PCR Dr. Gudrun Tellmann, Roche Diagnostics GmbH, Penzberg
15:00–15:30	Re-Sequenzierung des menschlichen Genoms mit dem 454 Genome Sequencer FLX System Dr. Marcus Droege, Roche Diagnostics GmbH, Penzberg
15:30–16:00	Diskussion und gemeinsamer Imbiss

Business Services & Politics

Bio@Venture Conference 2009

Convention Center (CC), Saal/room 12

Dienstag/Tuesday, 06.10.2009, 09:00–18:00 Uhr/hrs

Die Bio@Venture Conference 2009 ist der Ort, an dem Life Science-Ideen auf neues Kapital treffen! Sie bietet die Plattform für Unternehmer, ihre innovativen Ideen vor Investoren und potenziellen Beteiligungskapitalgebern zu präsentieren.

Die Kurzvorträge von ausgewählten Unternehmen vermitteln den ersten Eindruck für spätere direkte Verhandlungen. Keynote Lectures berichten von erfolgreicher Kapitalakquise und weiteren Möglichkeiten als junges Life Science-Unternehmen eine Finanzierung aufzustellen.

Die Organisatoren der Veranstaltung: die Investitions- und Förderbank Niedersachsen – NBank, die Deutsche Messe AG, die Landesinitiative Life Sciences Niedersachsen – BioRegioN und das Enterprise Europe Network Niedersachsen freuen sich auf Sie und Ihre Ideen.

The Bio@Venture Conference 2009 is the venue where life science ideas correlate with new capital! The conference offers a platform to entrepreneurs to present their innovative ideas to investors.

The short presentations of selected enterprises give a first impression of the idea and are followed by individual negotiations later on. Expert lectures will report on successful capital acquisition and further possibilities of financing life science enterprises.

The organizers of the event: Investitions- und Förderbank Niedersachsen – NBank, Niedersachsen's Life Science Network – BioRegioN and the Enterprise Europe.

Veranstalter/ Organizer	Investitions- und Förderbank Niedersachsen – NBank Günther-Wagner-Allee 12–16, D-30177 Hannover
	<i>in Zusammenarbeit mit:</i> BioRegioN, Enterprise Europe Network Niedersachsen, BIOTECHNICA, Bioventure
Sprache/ Language	Deutsch oder Englisch / German or English
Teilnahme/ Participation	Teilnahmegebühr inkl. gesetzl. MwSt. und Messeeingangskarte.
	Unternehmen: 300,00 EUR / Investoren: kostenfrei.
	Anmeldung erforderlich unter www.bioatventure.de
	<i>Participation fee (incl. V.A.T.) and entrance ticket to the fair.</i>
	<i>Companies: 300,00 EUR / Investors: free of charge.</i>
	<i>Registration required online at www.bioatventure.de</i>
Kontakt/ Contact	Melanie Albrecht
	NBank
	Telefon: +49 511-30031-368
	Fax: +49 511-30031-11368
	E-mail: melanie.albrecht@nbank.de
	09:00–09:30 Registrierung der Teilnehmer/<i>Admission and registration</i>
	Begrüßung/<i>Welcome Note</i>
	Stephan Ph. Kühne, Mitglied des Vorstands, Deutsche Messe AG
	Begrüßung/<i>Welcome Note</i>
	Dr. Sabine Johannsen, Mitglied des Vorstands, NBank
	Begrüßung/<i>Welcome Note</i>
	Stefan Kapferer, Niedersächsischer Staatssekretär für Wirtschaft, Arbeit und Verkehr
	Auftaktreferat/<i>Kick-off Presentation</i>
	Dr. Michael Brandkamp, Geschäftsführer, High-Tech Gründerfonds
	Unternehmenspräsentationen/<i>Company presentations</i>

12:00–13:00	Mittagspause/Lunch break
13:00–13:30	Impulsreferat/Kick-off Presentation Prof. Dr. Dr. Siegfried Schäfer, Geschäftsführer, Solvay Pharmaceuticals GmbH
13:30–14:30	Unternehmenspräsentationen/Company presentations
14:30–15:00	Kaffeepause/Coffee break
15:00–15:20	Impulsreferat/Kick-off Presentation Erik Lindemann, Mitglied des Vorstands, BioAgency AG
15:20–16:50	Unternehmenspräsentationen/Company presentations
16:50–18:00	Get-together
 Indo-German Workshop	
Convention Center (CC), Saal/room 108–110	
Dienstag/Tuesday, 06.10.2009, 10:00–17:00 Uhr/hrs	
Partnering in Life Sciences	
The event presents first hand information about new scenarios for Indo-German cooperation, successful research institutions in the Indo-German context, cooperation in R&D and in drug discovery and development, bioinformatics, as well as a presentation on legal aspects. Indian and German decision-makers from the biotechnology industry and research institutions will join the workshop. Talk to other participants and the speakers to explore new cooperation ideas and to start new binational projects.	
<i>Veranstalter/ Organizer</i>	Life Science Niedersachsen goes India / BioRegioN Sophienstr. 6, D-30159 Hannover in cooperation with: German-Indian Business Center GIBC, http://hannoverit.de/GIBC/ Kampagne: Research in Germany – Land of Ideas
<i>Language</i>	Englisch/English
<i>Teilnahme/ Participation</i>	Teilnahme kostenfrei in Verbindung mit einer Messeeingangskarte. Anmeldung erbeten per E-mail oder Fax an BioRegioN. Vor Ort Anmeldung möglich. <i>Participation free of charge to BIOTECHNICA ticket holders by e-mail or fax to BioRegioN. On-Site Registration: Convention Center (CC), room 108–110</i>
<i>Kontakt/ Contact</i>	Dr. Corinna Morys-Wortmann BioRegioN Telefon: +49 (0)511-449895-21 Fax: +49 (0)511-449895-99 E-mail: corinna.morys@bioregion.de
10:00–10:30	Registration
10:30–10:35	Welcome Remarks Dr. Albrecht Läufer, BioRegioN and Prof. Singh Chhatwal, HZI
10:35–10:40	Opening Remark Dr. Andreas Gruchow, Member of the Board, Deutsche Messe AG
10:40–10:45	Opening Remark BMBF / International Office (to be confirmed)
10:45–11:15	Changing Scenario of Indo-German Cooperation Prof. Nirmal K. Ganguly, Translation Health, Science & Technology Institute THSTI, New Delhi
11:15–11:45	Indo-German Science Centre for Infectious Diseases Prof. G. Singh Chhatwal, Helmholtz Centre for Infection Research, Braunschweig
11:45–12:15	„Leveraging cross-continental strengths“- Indo-German models for molecular target based assay design & validation Sanjay Bettadpura, Polyclone Bioservices Pvt. Ltd, Bangalore

12:15–12:45	"Globalizing Genomics" – Growth, Gaps and Goodwill Anuradha Acharya, Ocimum Biosolutions, Hyderabad	Impulsreferate	15:10–15:25 Wirtschaftskraft und Wissenschaft – Kooperationen stärken den Standort Halle Wilfried Klose, Vorsitzender der Geschäftsführung, Stadtwerke Halle
12:45–14:00	Lunch in the Exhibition Hall 9, Catering Area	15:25–15:40 Zur Gewinnung und Anwendung bioaktiver Substanzen aus der Balsampappel – Produktgewinnung aus nachwachsenden Rohstoffen	Prof. Dr. Reinhard Neubert, Institutsdirektor, Institut für Pharmazie der Martin-Luther-Universität Halle-Wittenberg
14:00–14:30	IBA BioTAGnology: Technologies and products for life science research and biotechnological production in India PD Dr. Joachim Bertram, IBA GmbH, Göttingen	15:40–15:55 Ressourcenschonung – neue Produkte aus Altmaterialien	Tobias Schnappinger, Geschäftsführer, Pyrolyx GmbH Halle
14:30–15:00	Structured Resources for Biotech advances – Indian perspective A. Mathiyalagan, Mediclone Biotech Pvt. Ltd, Chennai	15:55–16:10 Biomasse als Impulsgeber für die Regionalentwicklung	Dr. Michael Schädlich, Geschäftsführer, ISW Halle
15:00–15:30	Structuring Indo-German Co-operation – A legal introduction – Ulrich Herfurth, Rechtsanwalt (Hannover / Brüssel); Maler Berger, Advocate & Solicitor (Singapore/ UK), Herfurth & Partner Rechtsanwaltsgegesellschaft mbH	<u>Moderation:</u>	Olaf Kreße, HOSS PR GmbH
15:30–16:00	O2h – Discovery Delivered Ekta Ahuja, PhD O2h – Oxygen Healthcare Ltd., Cambridge UK / Ahmedabad	16:10–16:40 Podiumsdiskussion mit den Impulsreferenten	Wilfried Klose, Vorsitzender der Geschäftsführung, Stadtwerke Halle; Prof. Dr. Reinhard Neubert, Institutsdirektor, Institut für Pharmazie der Martin-Luther-Universität Halle-Wittenberg; Tobias Schnappinger, Geschäftsführer, Pyrolyx GmbH Halle; Dr. Michael Schädlich, Geschäftsführer, ISW Halle
16:00–16:30	How to create and maintain an Indian subsidiary Michael Tysiak, BIOBASE GmbH, Wolfenbüttel	16:40–17:00 Get together zum Kennenlernen und Vertiefen der begonnenen Diskussion	
16:30–17:00	Closing Remark Dr. Albrecht Läufer, BioRegion		

9. Biomasse Workshop/9th Biomass Workshop

Convention Center (CC), Saal 17

Mittwoch/Wednesday, 07.10.2009, 14:00–17:00 Uhr/hrs

Regionale Infrastruktur und Wissenschaftskompetenz – Standortargumente für Halle (Saale)

Welche Standortqualitäten bietet Halle (Saale) für Erzeuger und Verarbeiter von Biomasse? Dieser Frage widmet sich der 9. Biomasseworkshop, zu dem Stadtwerke Halle und weinberg campus e.V. einladen. Diskutieren Sie mit renommierten Partnern aus Wissenschaft, Wirtschaft und Politik.

Regional infrastructure and scientific expertise – reasons to choose Halle (Saale)

What are the reasons for biomass producers and processors to choose Halle (Saale) as a location? This question will be at the heart of the 9th biomass workshop. The workshop is held under the auspices of Stadtwerke Halle and weinberg campus e.V. This is your opportunity to discuss this topic with high-profile partners from science, business and politics.

Veranstalter/
Organizer
Stadtwerke Halle GmbH in Kooperation mit dem Verein weinberg campus e.V.
Bornknechtstr. 5, D-06108 Halle

Sprache
Deutsch/German

Teilnahme/
Participation
Teilnahme kostenfrei in Verbindung mit einer Messeeingangskarte. Anmeldung erforderlich über
Stadtwerke Halle GmbH, www.stadtwerke-halle.de. Vor Ort Anmeldung möglich.

Kontakt/
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Fax: +49 (0)345/5811700
E-mail: regina.bluemel@stadtwerke-halle.de

14:00–14:10
Begrüßung
Wilfried Klose, Vorsitzender der Geschäftsführung, Stadtwerke Halle GmbH

14:10–14:40
Statement der Schirmherrin:
**Forschungs- und Arbeitsfeld Biomasse – das Land Sachsen-Anhalt bietet
excellente Rahmenbedingungen**

Petra Wernicke, Ministerin für Landwirtschaft und Umwelt des Landes Sachsen-Anhalt

14:40–15:10
Präsentation:
Aufgaben und Ziele der Biomasse-Forschungsplattform Sachsen-Anhalt
Dr. Ralf-Peter Weber, Koordinator der Biomasse-Forschungsplattform in Sachsen-Anhalt

Veranstalter/
Organizer
Arbeitskreis der BioRegionen in Deutschland c/o BIO Deutschland e.V.
Tegeler Weg 33/berlinbiotechpark, D – 10589 Berlin
Telefon: +49 30/3450593-35
Fax: +49 30/3450593-59
E-mail: info@ak-bioregio.org
web:www.ak-bioregio.org

Sprache
Deutsch/German
Teilnahme/
Participation
Teilnahme kostenfrei in Verbindung mit einer Messeeingangskarte.
Participation free of charge to BIOTECHNICA Ticket holders.
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Das KAPPA-Health EU-Projekt/ The KAPPA-Health EU-Project
Halle 9, Stand E41, Gemeinschaftsstand BIO-PRO Baden-Württemberg

Mittwoch/Wednesday, 07.10.2009, 14:30–15:15 Uhr/hrs

KAPPA-Health bedeutet: „Schlüsselkriterien für die Beurteilung und Bewertung erfolgreicher Teilnahmen von innovativen KMU in EU-Forschungsprojekten im Bereich Gesundheit.“ Die Zielvorstellung des EU-finanzierten Projektes KAPPA-Health ist, die Wettbewerbsfähigkeit europäischer Forschung anzuregen. Es soll ein bestmögliches, unterstützendes Umfeld für KMU geschaffen werden und der Prozess beschleunigt werden, neue Produkte, Prozesse oder Dienstleistungen auf den Markt zu bringen.

KAPPA-Health stands for: "Key performance factor assessment and valorisation for successful EU-FP project participation of innovative SMEs in the area of health." The overall objective of the EU-funded KAPPA-Health project is to stimulate the competitiveness of European research, to contribute to the creation of the most favourable support environment for SMEs and to accelerate the process of bringing new products, processes and services to the market.

Veranstalter/
Organizer Steinbeis-Europa-Zentrum
Willi-Bleicher-Str. 19, D-70174 Stuttgart

Language Englisch/English

Teilnahme/
Participation Teilnahme kostenfrei in Verbindung mit einer Messeeingangs-karte.
Participation free of charge to BIOTECHNICA ticket holders.

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Fax: +49 711/123 4011
E-mail: welck@steinbeis-europa.de

Zehn Schlüsselkriterien für erfolgreiche internationale Zusammenarbeit in FP7

10 key factors for successful international collaboration in FP7

Hartmut Welck, Steinbeis-Europa-Zentrum

Zwei KMUs (Kleine und Mittlere Unternehmen) stellen sich vor
Presentation of two SMEs – active in health research – and their KPFs

Dr. Petra Zürbig, mosaiques diagnostics and therapeutics AG

Finanzierung in der Wirtschaftskrise
Get finances in difficult times

Dr. Patrik Frei, Venture Valuation AG

Exzellenz an allen Fronten – Arbeit der Cluster in Baden-Württemberg

Excellence on all fronts – the work of the clusters in Baden-Württemberg

Halle 9, Stand E41, Gemeinschaftsstand BIO-PRO Baden-Württemberg

Mittwoch/Wednesday, 07.10.2009, 12:00–13:00 Uhr/hrs

Baden-Württemberg steht für erfolgreiche Clusterarbeit, das heißt für moderierte Vernetzung von Wissenschaft und Wirtschaft. Zahlreiche Wettbewerberfolge und Cluster-Neubildungen sind Ausdruck der bestehenden exzellenten Standortbedingungen. Vertreter baden-württembergischer Cluster-Initiativen berichten über aktuelle Projekte und bieten Einblick in die Clusterarbeit.

The name of Baden-Württemberg is synonymous with the management of successful clusters, i.e. the organisation of links between science and industry. Success in numerous competitions and the establishment of new clusters reflect the existent excellent conditions in the state. Representatives of Baden-Württemberg cluster initiatives will talk about current projects and offer insights into the activities of the clusters.

Veranstalter/
Organizer BIO-PRO Baden-Württemberg GmbH
Breitscheidstr. 10, D-70174 Stuttgart

Sprache Deutsch/German

Teilnahme/
Participation Teilnahme kostenfrei in Verbindung einer Messeeingangs-karte.
Participation free of charge to BIOTECHNICA ticket holders.

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Moderation: Hubert Romer, Kreativmarketing Romer

Grußwort von Ministerialdirektor Klaus Tappeser

Ministerium für Wissenschaft, Forschung und Kunst Baden-Württemberg

Podiumsdiskussion mit Cluster-Experten

Dr. Klaus Eichenberg, BioRegio STERN Management GmbH, Cluster REGINA – ein Anwendzentrum der Regenerativen Medizin in der Gesundheitsregion Neckar-Alb und Stuttgart; Dr. Julia Schüler, BioRegion Rhein-Neckar-Dreieck e.V., Cluster BioRN – Biotechnologie-Cluster Rhein-Neckar; Dr. Ralf Kindervater, BIO-PRO Baden-Württemberg GmbH, Medizintechnik-Cluster Tuttlingen/Neckar-Alb; Dr. Ludwig Witter, Karlsruher Institut für Technologie (KIT); Maike Rochon, BioRegionUlm e.V., Cluster BioPharMaXX

Frage- und Diskussionsrunde und Get together mit Lunchbuffet

BMBF-Projektforum Biotechnologie/BMBF-Project Forum Biotechnology

Halle 9, Stand C26

06.10.2009–08.10.2009, 09:30–17:30 Uhr/hrs

Im Rahmen des Projektforums werden die vom Bundesministerium für Bildung und Forschung (BMBF) geförderten Projekte vorgestellt, die im Laufe des Jahres 2008 abgeschlossen wurden. Gegenstand aller präsentierten Projekte ist die Biotechnologie mit ihren unterschiedlichen Aspekten; hierbei ist die Grundlagenforschung ebenso vertreten wie anwendungsnahen Vorhaben. Der Begriff „Forum“ ist dabei ganz wörtlich zu nehmen: In der Halle 9 werden die Vorträge in einer allen zugänglichen Arena gehalten.

The Project Forum will be holding a number of presentations on projects that were funded by the Federal Ministry for Education and Research (BMBF) and which ended in 2008. The subject of the presented projects will be biotechnology, in all its various aspects. Thereby, basic research will be represented equally alongside application-near projects. In this case, the term „forum“ should be understood literally: The event will take place in hall 9 in a lecture arena that will be open to all.

Veranstalter/
Organizer Bundesministerium für Bildung und Forschung
Hannoversche Str. 28–30, D-10115 Berlin

Vom BMBF mit der Organisation beauftragt ist:
biotechnologie.de
c/o BIOCOM Projektmanagement AG
Brunnenstr. 128, 13355 Berlin

Sprache Deutsch/German

Teilnahme/
Participation Teilnahme kostenfrei in Verbindung mit einer Messeeingangs-karte.
Participation free of charge to BIOTECHNICA ticket holders.

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Dienstag/Tuesday, 06.10.2009

Biomaterialien in der regenerativen Medizin

09:30–09:40	Kontrollierte Bildung von Biosilica-Nanostrukturen Prof. Dr. Werner E.G. Müller, Johannes Gutenberg-Universität Mainz
09:40–09:50	Intelligente Biomaterialien für Zellkultur und Regenerative Biologie Dr. rer. nat. Helmut Wurst, Eberhard-Karls-Universität Tübingen
09:50–10:00	Tissue Engineering des Knochens auf der Basis von Kompositen Prof. Dr. Hans-Georg Neumann, DOT GmbH
10:00–10:10	Knochenersatzmaterialien zur Therapie der Osteoporose Prof. Dr. Raimund W. Kinne, Friedrich-Schiller-Universität Jena
10:10–10:20	Bioartifizieller Oberflächenersatz zur Behandlung von Knorpelerkrankungen Karin Benz, Eberhard-Karls-Universität Tübingen
10:20–10:30	Axonale Regeneration in einer bioaktiven Nanofaser-Matrix Katarzyna Kaczanowska, EMC microcollections GmbH
10:30–10:40	Neurotrope Wachstumsfaktoren Dr. Frank Plöger, BIOPHARM GmbH

Moderne Stammzellforschung

10:50–11:00	Molekulare Signatur menschlicher pluripotenter Stammzellen Prof. Dr. Anthony D. Ho, Ruprecht-Karls-Universität Heidelberg
11:00–11:10	Adulte Stammzellen beim Schlaganfall Dr. med. Armin Schneider, SYGNIS Bioscience GmbH & Co. KG
11:10–11:20	Nasale Stammzellen für die Rückenmarksregeneration Dr. Yvonne Baumer, Eberhard-Karls-Universität Tübingen
11:20–11:30	Aptamere als Fänger moleküle für Vorläuferzellen der Gefäßwand PD Dr. Hans Peter Wendel, Eberhard-Karls-Universität Tübingen
11:30–11:40	Engineering von Hautersatz unter Verwendung adulter Stammzellen Dr. rer. nat. Diemo Thomas, CellSystems Biotechnologie Vertrieb GmbH
11:40–11:50	Adulte Stammzellen zur Regeneration von Muskelgewebe Prof. Dr. Arnulf Stenzl, Eberhard-Karls-Universität Tübingen
11:50–12:00	Aktive neuronale Zell-Implantate Dr. Peter Geigle, CellMed AG

Infektionsforschung bei Mensch und Tier

12:10–12:20	Modellierung einer virtuellen Pseudomonas aeruginosa Zelle Prof. Dr. Dieter Jahn, Technische Universität Carolo-Wilhelmina zu Braunschweig
12:20–12:30	Nachweis der biologischen Aktivität des Botulinum-Neurotoxins Prof. Dr. Dr. Helge Böhnel, Georg-August-Universität Göttingen
12:30–12:40	Variabilität von Wirtsfaktoren im AIDS-Makaken-Modell Dr. Matthias Platzer, Leibniz-Institut für Altersforschung
12:40–12:50	Screening antiviraler Substanzen gegen die Vogelgrippe Dr. rer. nat. Andrea Normann, Mediagnost GmbH
12:50–13:00	BSE Risiko Test im lebenden Tier Dr. med. Ekkehard Schuetz, Chronix Biomedical GmbH
13:00–13:10	Wirt-Erreger-Interaktion der E. coli-Resistenz beim Geflügel Prof. Dr. Rudolf Preisinger, Lohmann Tierzucht GmbH

Gesundheit von Nutztieren

13:50–14:00	Infektabwehr und Resistenz im Atemtrakt des Schweins Prof. Gerald-Friedrich Gerlach, Stiftung Tierärztliche Hochschule Hannover
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Identifizierung der an Erbdefekten beteiligten Gene beim Schwein

PD Dr. Klaus Wimmers, Forschungsinstitut für die Biologie landwirtschaftlicher Nutztiere

Nachweis von Salmonella und Campylobacter im Schwein

Dr. rer. nat. Katrin Strutzberg-Minder, IVD Gesellschaft für Innovative Veterinärdiagnostik mbH

Untersuchung von Genen des Fettstoffwechsels bei Rind und Schwein

Prof. Dr. Hans-Rudolf Fries, Technische Universität München

Rückverfolgbarkeit und genetische Charakterisierung ganzer Rinderpopulationen

Dr. habil. Robert-Matthias Leiser, Agrobiogen GmbH

Variabilität der Erregerabwehr in der Milchdrüse des Rindes

PD Dr. Christa Kühn, Forschungsinstitut für die Biologie landwirtschaftlicher Nutztiere

Verbesserung der Fruchtbarkeit von Nutztieren

Dr. Thomas Fröhlich, Ludwig-Maximilians-Universität München

Ernährung und Umwelt

Nahrungsmittelzusätze auf der Basis von Mikroorganismen

Dr. Steffen Goletz, Glycotope GmbH

Anreicherung bioaktiver Glykoverbindungen aus Milch

Dr. Jürgen Kuballa, GALAB Technologies GmbH

Omega-3 Fettsäuren in Raps und Lein

Prof. Dr. Ivo Feußner, Georg-August-Universität Göttingen

Kandidatengene für das Merkmal Brauqualität bei Gerste

Prof. Dr. Andreas Graner, Institut für Pflanzengenetik und Kulturpflanzenforschung

Biotechnische Verfahren zur Bekämpfung der Rosskastanien-Miniermotte

Dr. Rainer Meyhöfer, Leibniz-Universität Hannover

Anwendungsstrategien für Hefepräparate im ökologischen Landbau

Dr. Stefan Kunz, Bio-Protect GmbH

Vorhersage von ökotoxischen Effekten neuartiger chemischer Substanzen

Dr. Thomas Hankeln, GENterprise GmbH

Gentechnik in Nutzpflanzen

Flächenauswahl und Datenerhebung für das anbaubegleitende Monitoring

Dr. Ralf Wilhelm, Bundesforschungsinstitut für Kulturpflanzen

Regulatorisch wirkende Gene bei der Flavonoidbiosynthese in Raps

Dr. Martin Sagasser, Universität Bielefeld

Einfluss von transgenen Kartoffeln auf die Qualität von Böden

Dr. Michael Schloterm, Helmholtz Zentrum München

Genomkarte der Zuckerrübe zur Nutzung in der Pflanzenzüchtung

Dr. Daniela Holtgraewe, Universität Bielefeld

Optimierung der biologischen Sicherheit gentechnisch veränderter Pflanzen

Dr. Ralph Lisson, Technische Universität Carolo-Wilhelmina zu Braunschweig

Freisetzungsbegleitende Sicherheitsforschung transgener Maissorten

Prof. Dr. Ingolf Schuphan, Rheinisch-Westfälische Technische Hochschule Aachen

Mittwoch/Wednesday, 07.10.2009

Krankheitsmechanismen und Therapieansätze

Neue Therapieansätze für neurodegenerative Erkrankungen

Dr. rer. nat. Thomas Rohrmeier, NeuroProfile GmbH

EndoTAG zur Behandlung von Angiogeneseabhängigen Augenkrankheiten

Dr. Brita Schulze, MediGene AG

09:50–10:00	Entwicklung neuer Antidepressiva Dr.rer.nat. Inge Sillaber, Affectis Pharmaceuticals AG	14:30–14:40	Neuartiger multifunktioneller Inhibitor der Metastasierung Dr. Christian Nowak, EPO GmbH
10:00–10:10	Entwicklung eines Wirkstoffes für die Therapie der chronisch-obstruktiven Lungenerkrankung Dr. Ewald Mirko Aydt, Revotor Biopharmaceuticals AG	14:40–14:50	Der tumorspezifische Stoffwechsel als Target für neue Therapeutika Dr. Sybille Mazurek, ScheBo Biotech AG
10:10–10:20	Therapie chronischer Wunden und bakterieller Infektionen Prof. Dr. Michael Reggelin, Technische Universität Darmstadt	14:50–15:00	Neuartige Immuntherapie gegen Krebs Dr. Jörg Vollmer, Coley Pharmaceutical GmbH
10:20–10:30	Ziel suchende Regenerationstherapeutika bei Rückenmarkläsionen Dr. Michael Burnet, Synovo GmbH	15:10–15:20	Optimierung der Tumorbehandlung Therapeutischer Impfstoff zur Behandlung von Bauchspeicheldrüsenkrebs Toni Weinschenk, Immatics Biotechnologies GmbH
10:30–10:40	Gentherapie von monogenetischen Erkrankungen wie z.B. Zystischer Fibrose Dr. Patrick Baumhof, CureVac GmbH	15:20–15:30	Neue Behandlungswege beim Dickdarmkrebs Dr. Kai Schulze-Forster, CellTrend GmbH
Therapie von Stoffwechsel- und Gefäßerkrankungen		15:30–15:40	Therapieoptimierung bei Eierstockkrebs Dr. rer. nat. Frank Kischkel, TherapySelect GmbH & Co. KG
10:40–10:50	Genetik und Pharmakogenomik der Fetsucht Dr. Anita Suk, Max-Planck-Institut für molekulare Genetik	15:40–15:50	Neue Angriffspunkte bei Nierenzellkrebs Prof. Barbara Seliger, Martin-Luther-Universität Halle-Wittenberg
11:00–11:10	Neue Targets für die Behandlung der Adipositas Dr. Annette Schürmann, Deutsches Institut für Ernährungsforschung	15:50–16:00	3D-Genomorganisation und Genexpression während der Tumorentwicklung Dr. med. Sabine Langer, Technische Universität München
11:10–11:20	Die Rolle von Serotonin Rezeptor Genen bei gastrointestinale Erkrankungen Dr. rer. nat. Beate Niesler, Ruprecht-Karls-Universität Heidelberg	16:00–16:10	Fluoreszenz-Spektroskopie bei der Target-Identifizierung Dr. rer. nat. Stefan Hannus, Intana Bioscience GmbH
11:20–11:30	Minimal invasiver Blutzuckersensor Dr. Mario Birkholz, Leibniz-Institut für innovative Mikroelektronik	Biokatalyse / Bionik	
11:30–11:40	Neue Wege zur Behandlung von diabetesbedingten Spätfolgen Ph. D. Ursula Hoffmann, DeveloGenAG	16:30–16:40	Designer Mikroorganismen – Die Zelle als nachhaltige Fabrik Dr. Melanie Schürmann, Julich Chiral Solutions GmbH
11:40–11:50	Neue Strategie zur Behandlung atherosklerotischer Erkrankungen PD Dr. Dorothea Siegel-Axel, Eberhard-Karls-Universität Tübingen	16:40–16:50	Effiziente Waschprozesse bei niedrigen Temperaturen Prof. Dr. Karl-Heinz Maurer, Henkel KGaA
11:50–12:00	Bahndlung von autoimmun-bedingter Herzschwäche PD Dr. Roland Jahns, Julius-Maximilians-Universität Würzburg	16:50–17:00	Neuartige technische Enzyme aus Pilzen Prof. Dr. Katrin Scheibner, Hochschule Lausitz
Instrumente für Forschung und Medizin		17:00–17:10	Biokatalytische Hydrocyanierung & Hydroformylierung Dipl.-Chem. Sarah Dannen, Universität Rostock
12:10–12:20	Mikroendoskopie des Gehirns zur Analyse neuronaler Netze Prof. Dr. Helmut Adelsberger, Technische Universität München	17:10–17:20	Technisches Potenzial wasserabweisender biologische Grenzflächen Dr. Holger Bohn, Rheinische Friedrich-Wilhelms-Universität Bonn
12:20–12:30	Drainagesystem für die Glaukombehandlung Dr. Bernhard Heck, Acri. Tec GmbH	17:20–17:40	Delfinsignale für eine neue Qualität der akustischen Daten-Telemetrie Prof. Dr.-Ing. Ulf Stahl, Technische Universität Berlin
12:30–12:40	Thermische Gefäßanastomosierung mit entfernbaren Instrumenten Dipl.-Ing. Achim Brodbeck, Erbe Elektromedizin GmbH	Donnerstag/ Thursday, 08.10.2009	
12:40–12:50	Erkennung von Biowaffen-Toxinen Charles Wijayawardhana, AJ eBiochip GmbH	Funktionelle Genomanalyse	
12:50–13:00	Multiphotonen-Endoskop zur Analyse von Wirkstoffen im Körper Martin Weinigel, JenLab GmbH	09:30–09:40	Neuartige molekulare Werkzeuge für die ChIP-chip-Technologie Dr. Michael Meisterernst, Helmholtz Zentrum München
13:00–13:10	Optisches Nahfeldmikroskop zur Untersuchung von Membranproteinen Dipl.-Phys. Jörn Kamps, JPK Instruments AG	09:40–09:50	Hochdurchsatzmethode für Genfunktionsstudien in Säugetierzellen Dr. Michael Janitz, Max-Planck-Institut für molekulare Genetik
Innovative Krebstherapien		09:50–10:00	Wechselwirkung genregulatorischer Netzwerke Prof. Dr. Andreas Zell, Eberhard-Karls-Universität Tübingen
13:50–14:00	Alpha-Hederin als Krebstherapeutika Prof. Dr. Dirk Prüfer, Westfälische Wilhelms-Universität Münster	10:00–10:10	Rolle von nicht-messenger RNAs bei Säugetieren Prof. Dr. Jürgen Brosius, Westfälische Wilhelms-Universität Münster
14:00–14:10	Spiegelmere für die Therapie onkologischer Erkrankungen Dr. Sven Klußmann, Noxxon Pharma AG	10:10–10:20	Charakterisierung von regulatorischen siRNA Netzwerken Dr. rer. nat. Thomas Werner, Genomatix Software GmbH
14:10–14:20	Entwicklung und Optimierung von small molecules für die Krebstherapie Dr. Christoph Schultes, ELARA Pharmaceuticals GmbH	10:20–10:30	Regulation von mRNA-Spleißen beim Menschen Prof. Dr. Albrecht Bindereif, Justus-Liebig-Universität Gießen
14:20–14:30	Anti-Tumorwirkstoffe aus marinen Organismen Chinas Prof. Dr. Peter Proksch, Heinrich-Heine-Universität Düsseldorf	10:30–10:40	Quantitative Bestimmung einzelner Nukleinsäuresequenzen Dr. Andreas Geisbauer, Olympus Life Science Research Europa GmbH

Proteomanalyse

10:50–11:00	Mult экспониelle dynamisches 3D t-Mapping Dr. Heinrich Voges, LaVision BioTec GmbH
11:00–11:10	Quantitative Proteomanalyse in Kulturzellen Dr. Birte Sönichsen, Cenix BioScience GmbH
11:10–11:20	Automatisierte Lokalisierung des Proteoms in der Zelle Dr. Karsten Niehaus, Universität Bielefeld
11:20–11:30	Proteinarrays auf Basis von Nanokristallen Dr. Ursula Klingmüller, Deutsches Krebsforschungszentrum
11:30–11:40	Peptidbibliotheken im Chipformat Prof. Dr. Volker Lindenstruth, Ruprecht-Karls-Universität Heidelberg
11:40–11:50	Endozytose und Membrantransport von Signalmolekülen Univ. Prof. Dr. Volker Haucke, Freie Universität Berlin
11:50–12:00	Genetische Marker für affektive Krankheiten Dr. Eser Sayan-Ayata, Max-Planck-Institut für Psychiatrie

Zellkultivierung und -analyse

12:10–12:20	Gefrierkulturen für die Ionenkanalanalyse von Primärzellen Prof. Dr. Elke Guenther, Eberhard-Karls-Universität Tübingen
12:20–12:30	Hypotherme Langzeitkultur menschlicher Leberzellen PD Dr. med. Ursula Rauen, Universität Duisburg-Essen
12:30–12:40	Biochemischer Gentransfer in Zellkerne Dr. Bodo Ortmann, Lonza AG
12:40–12:50	Neuartiges Anzucht- und Screeningsystem für Zellkulturen Dr.-Ing Werner Zang, HiTec Zang GmbH
12:50–13:00	Ionenkanal-Assays mit Suspensionskulturen Dr. Thomas Knott, Cytocentrics AG
13:00–13:10	Entwicklung eines Leberektors als Testmodell Dr. Michael Doser, Deutsche Institute für Textil- und Faserforschung Denkendorf

Diagnostik

13:50–14:00	Elektrische Identifizierung von Infektionserregern Dr. Gerhard Hartwich, FRIZ BioChem GmbH
14:00–14:10	Test zum Nachweis von Chlamydien-Infektionen Dr. Uli Mohn, Mikrogen Molekularbiologische Entwicklungs GmbH
14:10–14:20	SNP-basierte, individuelle Diagnostik Dr. Birgit Ottenwälde, Eurofins Medigenomix GmbH
14:20–14:30	Kostengünstige multiple Point of Care Tests Prof. Dr. Dr. Heinz C. Schröder, Johannes Gutenberg-Universität Mainz
14:30–14:40	Microarray-basierte Testsysteme für die Diagnostik Dr. Ulf Steller, EUROIMMUN Medizinische Labordiagnostika AG
14:40–14:50	Entwicklung von Allergie-Tests Dr. Christian Scheler, Proteome Factory AG
14:50–15:00	DNA-Methylierung als analytisches Instrument im Tissue Engineering Dr. Sven Olek, Epiontis GmbH

Neue Wirkstoffe – Identifizierung und Produktion

15:10–15:20	Produktion medizinischer Wirkstoffe in Algen Dr. rer. nat. Arno Cordes, ASA Spezialenzyme GmbH
15:20–15:30	Produktionssystem für Biopharmazeutika auf der Grundlage menschlicher Amnion-Zellen Dr. rer. nat. Christoph Volpers, CEVEC Pharmaceuticals GmbH
15:30–15:40	Neuroprotektive und anti-inflammatoryische Wirkstoffe aus der Teufelskralle Dr. Dirk Wilken, BioPlanta GmbH
15:40–15:50	Fragmentbasierte Leitstrukturentwicklung Dr. Peter Reinemer, Proteros Biostructures GmbH
15:50–16:00	Identifizierung Autophagie-modulierender Wirkstoffe gegen degenerative Erkrankungen Prof. Dr. Alfred Nordheim, Eberhard-Karls-Universität Tübingen
16:00–16:10	Softwareplattform zur de novo-Wirkstoffentwicklung Prof. Dr. Johann Gasteiger, Molecular Networks GmbH

Neue Wirkstoffe – Reinigung und Testung

16:30–16:40	Reinigung eines in Gerste produzierten Medikamentes Dr. Peter Groß, SymbioTec GmbH
16:40–16:50	Chromatographie- und Membranverfahren zur Reinigung therapeutischer Antikörper Dr. Egbert Müller, TOSOH Bioscience GmbH
16:50–17:10	Regulatorische T-Zellen zur Optimierung von Transplantaten Dr. Mario Assenmacher, Miltenyi Biotec GmbH
17:10–17:20	Biotechnische Plattform für Gewebe-basierte Wirkstoff-Untersuchungen Dr. Alfred Stett, Eberhard-Karls-Universität Tübingen
17:20–17:30	Automatisierte Ionenkanal-Untersuchung für die Sicherheitspharmakologie PD Dr. Albrecht Lepple-Wienhues, flyion GmbH

BIOTECHNICA PARTNERING

BIOTECHNICA PARTNERING

Halle 9, Stand A72

06.10.2009–08.10.2009, 09:00–18:00 Uhr/hrs

Die Online-Plattform ist bereits vor Veranstaltung aktiv geschaltet. Maximieren Sie Ihr Netzwerk und sparen Sie Zeit und Geld. Registrieren Sie sich jetzt unter www.biotechnica-partnering.de!

Sie suchen Partner für den Vertrieb Ihrer Produkte? Sie sind interessiert an Forschungspartnerschaften? Sie wollen wissen, welche Firma Ihre Produkt-Pipeline vervollständigen kann?

Erfolg basiert häufig auf den richtigen Partnerschaften. Unabhängig, wen oder was Sie suchen, mit BIOTECHNICA PARTNERING finden Sie den richtigen Partner – Unternehmen, Personen und Produkte –, um Ihre Projekte weiter zu entwickeln und Ihre Ziele zu erreichen – schnell, einfach und effizient!

Nutzen Sie die weltweit führende online Plattform der EBD Group partneringONE™ bereits im Vorfeld der Veranstaltung zur Vereinbarung Ihrer Meetings. Sie wissen bereits heute, wer morgen auf der BIOTECHNICA sein wird.

In Halle 9, Stand A72 stehen Ihnen für kurzfristige Terminvereinbarungen ein Partnering Help Desk sowie designierte Meeting Areas für Gespräche abseits des Messeverbels zur Verfügung.

The features of the online platform will go live well before the event on site. Maximize your network and save your time and money. Register now on www.biotechnica-partnering.com!

Are you looking for distribution partners? Are you interested in research cooperations? Or are you interested to find out which companies can complement your product pipeline? No matter who or what you are searching for, with BIOTECHNICA PARTNERING you will find the right partner to progress your projects and achieve your business goals – quickly, easily, and efficiently!

Make use of EBD Group's leading online networking platform partneringONE™ prior to the event to arrange your meetings. On site at BIOTECHNICA, there will be a Partnering Help Desk to arrange last-minute meetings and designated Meeting Areas for your meetings away from the hustle and bustle of the fair.

Veranstalter/
Organizer Deutsche Messe AG
in cooperation with: EBD Group, Zürich
Online Plattform EBD Group: partneringONE™

Sprache/
Language Englisch/English (Online Platform)

Teilnahme/
Participation Teilnahmegebühr inkl. Messeeintrittskarte (zzgl. gesetzl. MwSt.):
99,00 EUR (Besucher Industrie)
59,00 EUR (Besucher Akademie)

Teilnahmegebühr excl. Messeeintrittskarte (zzgl. gesetzl. MwSt.):

199,00 EUR (Aussteller)

59,00 EUR (Mitaussteller Länderbeteiligungen)

Anmeldung erforderlich über: www.biotechnica.de/partnering_e

Participation fee incl. season ticket to the fair (+V.A.T.):

99,00 EUR (Visitors Industry)

59,00 EUR (Visitors Academia)

Participation excl. entrance ticket to the fair (+V.A.T.):

199,00 EUR (Exhibitors)

59,00 EUR (Exhibitors of a country joint stand)

Registration required via internet at: www.biotechnica.de/partnering_e

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Innovation Forum

hall 9 – Forum 1, stand C66

hall 9 – Forum 2, stand G65

hall 8 – Forum 3, stand B19

06.10.2009–08.10.2009

Anlässlich der BIOTECHNICA 2009 präsentieren sich auf dem Innovation Forum zahlreiche Unternehmen aus allen Sparten der Biotech-Branche und informieren über ihre innovativen Leistungen und Produkte. Dabei spiegeln sich die Ausstellungsschwerpunkte von der Biotechnik und -informatik über Dienstleistungen und Equipment bis hin zu den Anwendungsbereichen Pharmazie/Medizin, Ernährung, Landwirtschaft sowie Chemie und Umwelt in den Fokus Themen wider.

Das Innovation Forum findet auf insgesamt drei offen gestalteten Vortragsplattformen direkt in den Ausstellungsbereichen der Hallen 8 und 9 statt. Sie haben die Möglichkeit, sich einfach und unkompliziert über Innovationen aus erster Hand zu informieren, mit den Referenten in den Dialog zu treten und Kontakte zu knüpfen.

The Innovation Forum at BIOTECHNICA 2009 features a rich series of lectures and demonstrations by companies from every conceivable sector of the biotech industry keen on presenting their latest technologies, products, achievements, service offerings, bioinformatics solutions and equipment as well as intriguing biotech applications in pharmaceuticals, medicine, nutrition, agriculture, chemicals and environmental protection.

The presentations will be held at three locations in halls 8 and 9, right on the exhibition floor.

Visitors will find the Innovation Forum to be an optimal setting in which to pick up valuable know-how, discover the latest breakthroughs and engage in face-to-face dialogue with fellow professionals.

Veranstalter/
Organizer Deutsche Messe AG

Sprache/
Language Deutsch oder Englisch / German or English

Teilnahme/
Participation Teilnahme kostenfrei in Verbindung mit einer Messeeintrittskarte.
Participation free of charge to BIOTECHNICA ticket holders.

Kontakt/
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Dienstag/Tuesday, 06.10.2009

Equipment

10:45–11:10 **Dramatic Reduction of Cell Variability in High Content Analysis Assays**

English Dr. Francois Chatelain

hall 9 - Forum 2, stand G65

Discover how CYTOO adhesive micropattern technology normalizes cell architecture and behavior down to their internal organization. This dramatic reduction of cell variability results in gain in robustness and sensitivity of cell based assays. CYTOO's product range for research as well as upcoming products for drug discovery applications will be presented.

organizer: CYTOO

11:15–11:40 **The use of industrial machine vision on a pipetting robot**

English Frieder Neuhauser-Wespy

hall 9 - Forum 2, stand G65

The use of a moving camera on a pipetting robot opens up a wide range of interesting applications. Combined with state-of-the-art machine vision software, it is possible to solve tasks like colony picking and 2D bar code reading with the same hardware. Other applications are the analysis of samples for color change, solubility or fractions.

organizer: Hamilton Bonaduz AG

14:05–15:00
German

Genexpressionsstudien mittels quantitativer Real-Time PCR
Advances of Gene Expression Studies in quantitative Real-Time PCR
Dr. Michael W. Pfaffl
hall 9 - Forum 2, stand G65

Pros and cons performing absolute and relative quantification strategies in qRT-PCR + practical considerations with focus on MIQE standardisation, sensitivity, reproducibility, and PCR efficiency correction. Useful bioinformatical tools for experimental qRT-PCR data analysis like cluster algorithm in expression profiling will be presented.

organizer: Bio-Rad Laboratories GmbH

14:15–14:40
English
Chip-based & label-free single cell analysis for biotech and research laboratories
Dr. Marco Di Berardino
hall 9 - Forum 1, stand C66

Routine applications in research and biotech laboratories demand quick, easy and economical solutions. Axetris' Impedance Microflow Cytometer provides a label-free, near-online technology for cell counting and viability analyses for any kind of cell type (bacteria, yeasts, mammalian cells, etc.).

organizer: LEISTER Process Technologies

14:30–14:55
English
Advances in SureSelect Target Enrichment Methods for Next-generation sequencing sample preparation
Dr. Andreas Polten
hall 8 - Forum 3, stand B19

Agilent SureSelect Target Enrichment Platform enables researchers to focus on genomic regions of interest upfront of next-gen sequencing. In this talk, we will discuss representative data for new SureSelect products supporting the Illumina GA with Paired-End sequencing, Life Technologies SOLiD System and Human Exome capture.

organizer: Agilent Technologies

14:45–15:10
English
„Innovative Sensors - Powerful Solutions“
CITsens Bio the on-line measurement tool for disposable bioreactors
Dipl. Ing. FH Stefan Spichiger
hall 9 - Forum 1, stand C66

CITsens Bio is the first and only system for online, in situ measurement of glucose, glutamate and lactate in disposable reactors. Non-invasive, real-time analysis of the measurements relevant to the process takes place directly in the disposable reactor.

organizer: C - Cit AG

15:15–15:40
English
Turn-key bioreactor solutions for Single-Use Upstream Processing
Dr. Barbara Paldus
hall 9 - Forum 1, stand C66

We will present recent innovations in single-use sensors for upstream applications and demonstrate pO₂ and pH sensors that exhibit low drift, and that are based on a novel, patented design. We will also demonstrate a new, turnkey modular bioreactor concept that will enable fully flexible, multi-product, single-use facilities in the near future.

organizer: Finesse Solutions AG

15:45–16:10
English
Fast Protein Liquid Chromatography with Bioline
Dr. Markus Fuchs
hall 9 - Forum 1, stand C66

KNAUER Bioline LC systems for biochromatography use sophisticated instrument and software solutions to achieve high quality separations. Bioline high resolution borosilicate glass columns offer pressure stability up to 100 bar and a thermostatic jacket, making them suitable for a wide range of biochromatography applications.

organizer: Wissenschaftliche Gerätebau Dr. Ing. Herbert Knauer GmbH

16:15–16:40
English

And then there was lightin Lab-on-a-Chip
Henk Leeuwis MSc
hall 9 - Forum 1, stand C66

LioniX' core competence is micro/nano technology based products for (bio)sensor and "Lab-on-a-chip" systems (LOC). The unique combination of microfluidics and integrated optics gives LioniX an unrivalled competence, which is demonstrated with integration of planar optical waveguides for LIF and labelless detection in LOC, micro-arrays etc.

organizer: LioniX BV

Medizin, Pharmazie / Medical and pharmaceutical applications

10:15–10:40
English
KeraSeed - Relaunch of an autologous keratinocyte graft
Dr. Andreas Emmendorffer
hall 9 - Forum 2, stand G65

The use of autologous keratinocytes is an innovative approach to treat patients suffering from acute or chronic wounds. KeraSeed belongs to this class of advanced therapy medicinal products and was relaunched before December 2008. The lecture covers properties, results of the clinical trial and specific regulatory requirements.

organizer: Agenolab GmbH & Co. KG

10:45–11:00
English
Receptor Tyrosinekinase Phosphorylation on a WideScreen
Dr. Tanja Henzler
hall 9 - Forum 1, stand C66

Bead-based assay technologies, such as the xMAP® platform, are ideal tools for the multiplex analysis of 5-20 proteins that make them well suited for the immunological detection of biomarker and cell signaling proteins. We will demonstrate the simultaneous detection of eight different phosphorylation sites within the Epidermal Growth Factor Receptor (EGFR). New insights in EGFR phosphorylation events after EGFR inhibitor treatment will be elucidated.

organizer: Merck KGaA

11:05–11:20
English
Optimised mAB downstream process by use of new resin tentacle structures
James Easson
hall 9 - Forum 1, stand C66

Increasing titers in upstream processing of monoclonal antibodies need process adaption to increase productivity in biochromatography. An optimised surface-grafted hydrophilic polymer led to considerable improvements in binding kinetics and overall increase in binding capacity during a cation exchange purification.

organizer: Merck KGaA

16:00–16:10
German
Gesundheitswirtschaft und Life Sciences in Niedersachsen
- **GewiNet: Kompetenzzentrum Gesundheitswirtschaft in der Region Weser-Ems**
Dr. Maren Grautmann, GewiNet e.V., Bad Essen
hall 8 - Forum 3, stand B19

organizer: hannoverimpuls GmbH

16:50–17:00
German
Gesundheitswirtschaft und Life Sciences in Niedersachsen
- **Translationsallianz Niedersachsen (TRAIN): Weiterentwicklung neuer Wirkstoffkandidaten und Impfstoffe aus der Grundlagenforschung in die präklinische und klinische Entwicklung**
Prof. Dr. Markus Kalesse, Leibniz Universität Hannover
hall 8 - Forum 3, stand B19

organizer: hannoverimpuls GmbH

Biotechnik / Bioengineering

15:05–15:30 German	Biotechnische Prozesssimulation mit INOSIM Bio Torsten Hellenkamp, TU Dortmund, Bio- und Chemieingenieurwesen, Anlagen- und Prozesstechnik hall 9 - Forum 2, stand G65
Am Beispiel des Herstellprozesses für das Cosmaceutical Ectoin demonstrieren wir die Funktionalität und die Leistungsfähigkeit der entwickelten Simulationssoftware INOSIM Bio. Diese wurde gezielt für die Berechnung und Optimierung biotechnischer Aufarbeitungsprozesse innerhalb eines Projektes im ChemBioTec-Verbund entwickelt.	
organizer: INOSIM GmbH	
15:35–16:00 ChemBioTec F&E-Netzwerk - Förderung nachhaltiger Biotechnologie German Dr.-Ing. Frank Eiden hall 9 - Forum 2, stand G65	
Die von der Deutschen Bundesstiftung Umwelt (DBU) und der TU Dortmund geförderte Initiative ChemBioTec bündelt und begleitet Forschungs- und Entwicklungs-Projekte auf dem Gebiet nachhaltiger (Bio-) Produktionsprozesse. Die Förderung und Umsetzung von Innovationen in neuartige, umweltgerechte Produkte und Prozesse steht dabei im Vordergrund.	
organizer: ChemBioTec / BioChemGate GmbH	
15:40–15:50 German	Gesundheitswirtschaft und Life Sciences in Niedersachsen - Auditory Valley: Das Forschungs- und Entwicklungskluster zum Thema Hören Dr. Cornelia Pelz, Auditory Valley und Hörtac gGmbH, Oldenburg hall 8 - Forum 3, stand B19
organizer: hannoverimpuls GmbH	
16:05–16:30 German	Chemie und Biotechnologie Hand in Hand: Erschließung neuer Wege zur Synthese hochspezialisierter Kohlenhydrate Dr. Michael Bauer hall 9 - Forum 2, stand G65
In den letzten Jahren entwickelte toroma organics zusammen mit dem Mikrobiologischen Institut der Uni Saarbrücken einige neuartige Herstellungsverfahren hochspezialisierter Kohlenhydrate. Durch die Kombination von chemischen und biotechnologischen Schritten konnten innovative Synthesen von D-Rhamnose und verschiedenen Azazuckern etabliert werden.	
organizer: toroma organics Ltd.	
16:20–16:30 German	Gesundheitswirtschaft und Life Sciences in Niedersachsen – RegioneTI: Netzwerk für Transplantations- und Implantatemedizin in der Gesundheitsregion Hannover-Braunschweig Prof. Dr. med. Thomas Lenarz, Medizinische Hochschule Hannover/ BiomeTI e.V. hall 8 - Forum 3, stand B19
organizer: hannoverimpuls GmbH	
16:30–16:40 German	Gesundheitswirtschaft und Life Sciences in Niedersachsen – MBM ScienceBridge: Vermarktung von Innovationen aus Universitäten, Fachhochschulen und Forschungseinrichtungen Dr. Jens-Peter Horst, MBM ScienceBridge GmbH, Göttingen hall 8 - Forum 3, stand B19
organizer: hannoverimpuls GmbH	

Olé Olive - Mehrwert aus Reststoffen

16:35–17:00 German	Olé Olive - Mehrwert aus Reststoffen Dr. Jens Zotzel hall 9 - Forum 2, stand G65
In der EU werden jährlich mehr als 12 Mio Tonnen Oliven geerntet. Im Mittelmeerraum entstehen durch die Olivennutzung mehr als 30 Mio Tonnen Olivenreststoffe. N-Zyme BioTec nutzt unter Einsatz der Biotechnologie Olivenreststoffe und entwickelt hieraus natürliche, multi-funktionelle und damit wertschöpfende Produkte (ChemBioTec/DBU-Projekt).	
organizer: N-Zyme BioTec GmbH	

BioSCADA Lab und BioSCADA Advanced

16:45–17:10 German	BioSCADA Lab und BioSCADA Advanced Prozessüberwachung und -kontrolle vom Labormassstab bis zur Produktionsanlage Dr. Anne Lämmel hall 9 - Forum 1, stand C66
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An Beispielen aus dem Labor und der Produktion soll gezeigt werden, welche Anforderungen heute an Prozessesteuerung und -überwachung gestellt werden. Dabei wird auch die Einhaltung der in der Produktion aktuellen Standards miteinbezogen.

organizer: Bioengineering AG

Gewinnung von Omega-3-EPA aus Mikroalgen

17:05–17:30 German	Gewinnung von Omega-3-EPA aus Mikroalgen Dr. Peter Ripplinger hall 9 - Forum 2, stand G65
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Entwicklung eines integrierten Prozesses zur Gewinnung von EPA reichen Algenöl aus phototroph produzierten Algen.

organizer: SUBITEC GmbH

Bioinformatik, Service / Bioinformatics, Services

10:25–10:40 English	Cytobox – simply faster (Online ordering of individually manufactured cell lines) Konstantin Matentzoglu hall 9 - Forum 1, stand C66
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Cytobox – simply faster.

Online ordering of individually designed stable mammalian cell lines.

Generation of homogenous, stable cell lines within 5 weeks - with guaranteed target expression.

organizer: Cytobox

Asterand: Realizing the Potential of Human Tissue-Based Research

11:25–11:40 English	Asterand: Realizing the Potential of Human Tissue-Based Research Dr Jeremy Clarke hall 9 - Forum 1, stand C66
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Up to 60% of clinical failures may have been predicted by employing ex vivo human tissue tests at the pre-clinical stage. Asterand plc can help overcome this costly and time consuming problem.

organizer: Asterand PLC

15:00–15:25 English	Combining In Silico & In Vitro approaches for molecular target based assay design and validation Sanjay Bettadpura, Dr. Michael Steinwand hall 8 - Forum 3, stand B19
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A new approach in combining in-silico and in-vitro methods for the design and the validation of assays for molecular targets will be described. Some case studies (RT-PCR, molecular diagnostics, HT-gene expression) will demonstrate how the challenges faced in each case have been overcome using Polyclone's approach.

organizer: Polyclone Biosciences, Innovendia Consulting

15:30–17:00 German	Gesundheitswirtschaft und Life Sciences in Niedersachsen Frank Kettner-Nikolaus, Projektleiter Life Science – hannoverimpuls GmbH hall 8 - Forum 3, stand B19	Die Gesundheitswirtschaft entwickelt sich für den Standort Niedersachsen zum Wachstumsmarkt Nummer 1. Neue Angebote in der Versorgung von Patienten, zunehmender Bedarf an Pflegedienstleistungen und Innovationen aus dem Bereich Life Sciences – insbesondere in der Biomedizintechnik und der Roten Biotechnologie – sorgen für eine kontinuierliche Steigerung von Wertschöpfung und Arbeitsplätzen am Standort Niedersachsen. Ein wesentlicher Erfolgsfaktor für diese äußerst positive Entwicklung des Wirtschaftsstandorts ist die Vernetzung von Forschung, klinischer Praxis und Wirtschaft. Dabei ergänzen sich überregionale Kompetenznetze und regionale Netzwerke zu einem herausragenden Kompetenzcluster als idealem Ausgangspunkt für Unternehmensgründungen und -ansiedlungen sowie für neue Forschungsprojekte. Das Innovationsforum „Gesundheitswirtschaft und Life Sciences in Niedersachsen“ gibt einen Einblick in dieses Kompetenzcluster: Relevante Netzwerke stellen sich in Kurzpräsentationen vor und zeigen die Mehrwerte insbesondere für Unternehmen auf.	10:15–10:40 English	Innovation made in NRW Integration of CAPA and CIP (Continuous Improvement Process) to the product life cycle of pharmaceuticals and their excipients Claudia Lange hall 9 - Forum 2, stand G65
16:40–16:50 German	Gesundheitswirtschaft und Life Sciences in Niedersachsen – eHealth.Braunschweig: Gesundheitsnetz für innovative IuK-basierte Versorgungsdienste Dr. Maik Plischke, BITZ GmbH, Braunschweig hall 8 - Forum 3, stand B19	Based on the intention and requirements of ICH Q9 and Q10, PLATO AG is presenting the possibility of a computerized implementation of a quality management and quality risk management during the complete product life cycle. The customized data management is offering the integration of processes as CAPA und CIP.	10:45–11:10 English	The BioLevitator: Revolutionizing 3D Cell Culture Dr. Clara Cavelier hall 8 - Forum 3, stand B19
15:50–16:00 German	Gesundheitswirtschaft und Life Sciences in Niedersachsen – IBN: Netzwerkinitiative Industrielle Biotechnologie Nord Dr. Helmut Thamer, TuTech Innovation GmbH und Hamburg Innovation GmbH hall 8 - Forum 3, stand B19	3D cell culture technologies have transformed our understanding of cellular behaviour but adoption has been slow due to problems of consistency, scale and cost. The BioLevitator revolutionizes 3D cell culture and enables easy and robust supply of biologically relevant cells for various applications.	11:15–11:40 German	Innovation made in NRW Fortschritte in der Herstellung von Minicircle DNA Dr. Marco Schmeer hall 9 - Forum 2, stand G65
16:10–16:20 German	Gesundheitswirtschaft und Life Sciences in Niedersachsen – NieKE: Niedersächsisches Kompetenzzentrum Ernährungswirtschaft Dipl.-Ing. agr. Doris Schröder, Universität Vechta hall 8 - Forum 3, stand B19	Minicircles (MC) sind zirkuläre nichtvirale DNA Elemente, die beispielsweise durch intramolekulare cis-Rekombination erzeugt werden. Im Gegensatz zu Standard-Vektoren für die Gentherapie oder Impfung mit Nukleinsäuren enthalten DNA Minicircles weder einen bakteriellen Origin of Replication noch Antibiotikaresistenz-Gene.	11:45–12:10 German	HIC in der Überholspur – neue Capto HIC Chromatographiemedien von CDM Dr. Lutz Mathe hall 9 - Forum 1, stand C66
09:45–10:10 English	Exploring the transcriptome with SOLiD sequencing Dr. Franziska Freund; Dr. Thomas Rygus hall 9 - Forum 2, stand G65	In enger Zusammenarbeit mit Industriekunden wurden neue Chromatographiemedien für die Hydrophobe Interactions Chromatography (HIC) entwickelt. Unter Verwendung der Capto High-Flow Agarose base matrix und von Phenyl und Butyl Liganden wurden Medien für kundenspezifische Prozesse gesucht. Herangehensweise und Ergebnisse werden präsentiert.	14:45–15:10 English	Innovation made in NRW Innovation made in Düsseldorf - fine enzymes for fine chemicals Dr. Michael Puls hall 9 - Forum 2, stand G65
Our understanding of what constitutes the Transcriptome is expanding. SOLiD sequences the whole transcriptome, the sRNA population or doing SAGE. It preserves strandedness, finds novel exons, alternative termination sites and coding SNPs. SOLiD™ System answers on what is expressed and at what level.	organizer: Applied Biosystems Deutschland GmbH	Innovation made in Düsseldorf – fine enzymes for fine chemicals. The Düsseldorf-based Biotech company evocatal is supplier of industrial enzymes as well as most innovative solutions for protein expression and protein secretion. The company's technologies comprise expression systems for <i>Bacillus subtilis</i> , <i>Rhodobacter capsulatus</i> as well as Chaperone-technologies and gene cluster cloning tools. Furthermore product highlights will be presented like latest enzyme developments as well as fluorescent proteins.	organizer: GE Healthcare Europe GmbH, Munich, Germany	organizer: evocatal GmbH

15:45–16:10 **Vollautomatisiertes Zellkultursystem: PANSYS 3000**

German Andreas Herzog

hall 9 - Forum 2, stand G65

PANsys3000 ist ein hoch automatisiertes Zellkultursystem, das eine signifikante Reduktion der manuellen Prozesse sowie eine vollständige Kontrolle und Dokumentation aller Zellkultur-Parameter erlaubt. Die Zellkultur läuft vollautomatisch ab, wird lückenlos dokumentiert und ausgewertet.

organizer: PAN-Systech GmbH

16:15–16:40 **A novel human *in vitro* translation system for glycoprotein expression**

English Carolin Kutzki

hall 9 - Forum 2, stand G65

More than 50% of the human proteome contains glycosylated proteins. Current *in vitro* expression systems cannot glycosylate proteins efficiently. We have developed a novel human cell-free expression system produces biologically active glycoproteins that sustain protein expression for >6 hours.

organizer: Thermo Fisher Scientific

16:15–16:40 **Flexible manufacturing with ReadyToProcess – a MAb case study**

English Knut Kuss

hall 8 - Forum 3, stand B19

A monoclonal antibody process based entirely on ready-to-use and single-use products is described. The MAb process was run in both standard equipment and using ReadyToProcess products, and compared. Development and results from cell culture, harvest, chromatography and filtration will be shown.

organizer: GE Healthcare Europe GmbH, Munich, Germany

Equipment

09:45–10:10 **Surface Plasmon Resonance imaging (SPRi)**

English – a modern tool for biomolecular interaction analysis

Mrs Chiraz Frydman, PhD

hall 8 - Forum 3, stand B19

The study of bio-interactions plays a leading role in the modern life science lab. SPRi delivers the sensitivity, accuracy, throughput and performance that is needed today. By its unique approach to Surface Plasmon Resonance the conventional limits are extended to unlock a multitude of new applications.

organizer: HORIBA Jobin Yvon GmbH

10:15–10:40 **Guard your treasure: Intelligent Automated Sample Management at –80°C**

English Dr. Martin Frey

hall 8 - Forum 3, stand B19

Never ever loose samples again!

Hamilton's Sample Access Manager (SAM) enables reliable and fully automated sample management at ultra low temperatures of –80°C. A controlled environment inside the store and cherry picking at –20°C guarantee easy access and long term integrity of your samples.

organizer: Hamilton Bonaduz AG

10:45–11:10 **CELLview - A new glass bottom dish for multiplex and live cell analysis**

English Dr. Lara Marchetti

hall 9 - Forum 1, stand C66

CELLview™ combines the convenience of a disposable plastic dish with the optical quality of glass, providing researchers with superior high resolution microscopic images. The innovative design guarantees maximal planarity, optimal thermal conductivity and enables simultaneous multiplex analysis.

organizer: Greiner Bio-One GmbH

10:45–11:10 **Innovation made in NRW**

English Small things can make a big difference - Microsystem Technology for Medical Diagnostics, Life Sciences and Analytics

Dr. Melanie Maniura

hall 9 - Forum 2, stand G65

In the reality of modern medical diagnostics and analytics today, speed and cost efficiency are as important as the reliability of a test. Innovations in the field of microsystem technology (MST) such as, complex lab-on-a-chip-systems or microspectrometers for handheld devices, are revolutionizing established applications as well as opening new ones. This lecture will demonstrate the potentials of MST in diagnostics, life sciences and analytics and also outline how good ideas can be turned into the value of a mass production.

organizer: Boehringer Ingelheim microParts GmbH

11:15–11:40 **Die nächste Generation Laserscanning - und Fluoreszenzmikroskope:**

German **das neue FluorView FV10i und das FSX100 von Olympus**

Dr. Hauke Kahl

hall 9 - Forum 1, stand C66

Olympus stellt die neueste Generation LSMs und Fluoreszenzmikroskope vor, die durch unschlagbare Anwenderfreundlichkeit und Kompaktheit bei besten Resultaten überzeugen. Das FluorView FV10i und das FSX100 decken aufgrund höchstwertiger Verarbeitung sowohl Routine- als auch High-End-Forschungsanwendungen bestens ab.

organizer: Olympus Deutschland GmbH

11:45–12:10 **Reverse Purification of Genomic DNA**

English Dr. Holger Wöhlecke

hall 8 - Forum 3, stand B19

Novel kits for purification of genomic DNA enables a "reverse" purification process. DNA is eluted at first from a micro column. This one-step chromatographic purification does not need any binding, dissolving and precipitation steps. The kits allow easy and fast processing and provide high-quality DNA for direct use in the downstream applications.

organizer: Dr. Lerche KG

14:15–14:40 **Integration of modern sampling systems in bioreactors**

English – new opportunities for the PAT-initiative of the FDA

Bernd-Ulrich Wilhelm

hall 8 - Forum 3, stand B19

Dead volume free and automatic sampling systems enable the use of a multitude of analytical instruments for bioprocess development. Offline-analytics become Atline- or even Online-analytics. Examples are the connection to any enzyme sensor, cell size analytics or flow cytometry.

organizer: bbi-biotech GmbH

14:45–15:10 **The iBox® Fast Imaging System with Maximized Flexibility for Fluorescent Protein Imaging in Vivo**

English Dr. Sean Gallagher, VP & Chief Technology Officer, UVP, LLC.

hall 8 - Forum 3, stand B19

The iBox® Spectra and Scientia series fluorescent protein (FP) imaging systems offer fast f1.2 optics, monochrome/color CCDs up to 8.3 megapixels, and new advanced BREES background subtraction. Analysis of mouse models using CFP, GFP, and RFP for cancer metastasis and treatment will be used to illustrate the imaging advantages of FPs and the iBox®.

organizer: UVP, LLC / Ultra-Violet Products Ltd

15:15–15:40
English

Advantages of a colorimetric “Arrays-In-Well” assay shown at the example of respiratory virus multiplexed diagnostics
Dr. Hanswilly Müller
hall 9 - Forum 1, stand C66

The advantage compared to other microarray formats is its robustness and ease of use. Especially when using a novel array imaging reader system (CLAIR) for easy microarray analysis at high throughput, providing a very affordable and sensitive platform for multiplexed diagnostics detection.

organizer: Sensovation AG

15:45–16:10
German
SNAP i.d. - die Revolution für Ihre Western Blots
Dr. Gabriele Rauch
hall 9 - Forum 1, stand C66

Das SNAP i.d.TM Western Blot-System ermöglicht den Proteinnachweis auf der Blottingmembran innerhalb von 30 Minuten. Mittels Vakuum werden alle verwendeten Lösungen durch die Membran gesaugt, wodurch Western Blots mit niedrigem Hintergrund erzielt werden.

organizer: Millipore GmbH

15:45–16:10
German
Optische Systemtechnik, SAW Funksensoren, Photonische Mikrosystemtechnik - CTR Kompetenzzentrum für intelligente Sensorik
Dipl.-Ing. Holger Spiegel
hall 8 - Forum 3, stand B19

Die CTR AG ist ein industrieorientiertes Kompetenzzentrum für intelligente Sensorik und zugleich größtes außeruniversitäres Forschungs- Entwicklungszentrum im Süden Österreichs. Die Schwerpunkte der CTR sind die SAW Sensortechnik, die optische Systemtechnik und die Photonische Mikrosystemtechnik.

organizer: CTR Carinthian Tech Research AG

16:15–16:40
German
Zukunftsorientierte Reinstwassererzeugung im modernen LifeScience Labor
Dr. Carsten Weber
hall 9 - Forum 1, stand C66

Es wird der Einfluß von Konfigurationen und Konzepten in der Reinstwasseraufbereitung auf Experimente und Ergebnisse im modernen LifeScience Labor dargestellt und diskutiert.

organizer: Millipore GmbH

16:45–17:10
English
Advances in Single-Use Bioreactors
Jon Reid
hall 9 - Forum 2, stand G65

Single-use bioreactors are now an accepted option for cGMP bioproduction. This presentation looks at the recent advances in design of the Thermo Scientific HyClone Single-Use Bioreactor (S.U.B.) concentrating on the mixing, sparging, monitoring and control options.

organizer: Thermo Fisher Scientific

Biotechnik / Bioengineering

10:15–10:40
English
Re-defining cell culture by introducing a nano scale polymerized culture surface
Masato Ishiwata, Business development manager, CellSeed Inc., Tokyo, Japan
hall 9 - Forum 1, stand C66

Thermo Fisher Scientific launched NuncTMUpCellTM, which is a temperature-responsive cell culture surface that allows detachment of cells by mere control of external temperature instead of trypsinization. Applications range from intact single cell detachment to easy cell separation to cell-sheet engineering.

organizer: Thermo Fisher Scientific

15:15–15:40
English

Innovation made in NRW
Evolving Biocatalysts for Cleantech Applications
Dr. Simon Curvers
hall 9 - Forum 2, stand G65

Industrial applications for modern biocatalysts with an important „Cleantech“ aspect are evolving rapidly. Ranging from feed enzymes reducing the impact of animal breeding on nature over replacement of chemistry by biochemistry in chemical synthesis to the development of CO₂-neutral production processes based on renewable feedstock, modern biocatalysts contribute to reducing the environmental footprint of every-day products. With its unique high-throughput optimization platform for enzymes and organisms, DIREVO Industrial Biotechnology GmbH is dedicated to supplying new and optimized biocatalysts to the Feed&Food as well as to chemical and biofuels industries.

organizer: Direvo Industrial Biotechnology

Bioinformatik, Service / Bioinformatics, Services

09:45–10:10
German
Fördermöglichkeiten für Forschungs- und Entwicklungsprojekte
Dr. Daniel Schubart
hall 9 - Forum 1, stand C66

In vielen Firmen gibt es hervorragende Produktideen, die aus vielfältigen Gründen ohne finanzielle Unterstützung häufig nicht umgesetzt werden können. Der Vortag gibt einen Überblick über die nationalen und internationalen Fördermöglichkeiten von Forschungs- und Entwicklungsprojekten in Deutschland.

organizer: ConsulTech Technologieberatung GmbH

11:15–11:40
English
Drug Discovery: Why gamble when you can count the cards?
Mr Edmund Champness
hall 8 - Forum 3, stand B19

Applying a traditional design process to drug discovery is hard because the underlying rules linking chemistry to biological properties are still not well characterised. However, taking an analogy from gambling, the pharma industry can bias the odds in favour of success by ‘counting cards’ to identify chemistries with a good balance of properties.

organizer: Optibrium Ltd.

14:15–14:40
German
Innovation made in NRW
Tools to Turn – ELN and LIMS
Dipl.-Ing. Georg Strömer
hall 9 - Forum 2, stand G65

Es werden Softwaretools vorgestellt, die es ermöglichen alle Daten in der F&E effizient und überschaubar zu verwalten und auf diese Weise einen echten Vorteil zu erhalten. Von den Notizen der ersten Idee über die Literaturhinweise, das Personal und die Termine bis hin zu den Geräterohdaten hat alles seinen Platz und steht auf Knopfdruck zur Verfügung.

organizer: LIMS at work GmbH

14:45–15:10
English
Master of Molecular Life Sciences: a programme for product and career development
Dr. Andrea Thiele
hall 9 - Forum 1, stand C66

The „Master of Molecular Life Sciences“ programme is an Applied Master programme that teaches students to translate research into products in different fields of Biotechnology. The programme can be followed full-time and part-time and is a unique chance for Bachelors and laboratory technicians to boost their career.

organizer: HAN BioCentre, HAN University of Applied Sciences

15:15–15:40
English
Advanced qPCR - one step ahead with fluorescent probes
Dr. Alexander Racz
hall 8 - Forum 3, stand B19

Overview of different qPCR approaches, principles/background of qPCR, methodology, quantification strategies, primer based/probe based assays, different labelling technologies strategies, etc.

organizer: Eurofins MWG Operon

16:45–17:00
German

Die Hölle & Hüttner AG, das größte baden-württembergische Bioinformatik-Unternehmen, stellt sich vor
Dr. Steffen Hüttner
hall 8 - Forum 3, stand B19

Als einer der TOP 20 Dienstleister des Jahres 2008 in Baden-Württemberg verfügen wir über umfassendes Fachwissen und grenzübergreifende Erfahrung in Life Science, Automotive und IT. Unser innovatives Beratungskonzept eröffnet Ihnen Verbesserungspotentiale bei Ihren alltäglichen Abläufen.

organizer: Hölle & Hüttner AG

16:45–17:10 **Analysis of Multi-omics Data and DNA Copy Number**
English Dr. Danielle Fletcher; Dr. Andreas Polten
hall 9 - Forum 1, stand C66

We will first discuss integrative analysis and biological contextualization of multi-omics data using the Agilent Genespring software. The second part of the talk will focus on DNA copy Number analysis. The latest development of the High-Resolution Oligonucleotide aCGH system will be presented.

organizer: Agilent Technologies

Umwelt / Environmental applications

14:15–14:40
German **MobiLab: Laborunabhängiger, spezifischer Nachweis von pathogenen Mikroorganismen**
Benjamin Jaschinsky
hall 9 - Forum 1, stand C66

Am Beispiel des Salmonellennachweises soll dargestellt werden, wo die Vorteile der molekularen Vorortdiagnostik liegen und wie innerhalb des MobiLab-Konzeptes das Zusammenspiel von Gerät, Verbrauchsmaterial und Biochemie zu schnellen und reproduzierbaren Nachweisen beiträgt.

organizer: Analytik Jena AG

Invitation by BIO.NRW

15:45–18:00 **BIO.NRW reception**
hall 9 - stand B34

Feel invited to join us after the last lecture of „Innovation made in NRW“ at our booth for a sundowner and some fingerfood. There you have the chance to contact the presenting companies or just to relax in the BIO.NRW Lounge area. Drinks will be offered at the bar.

organizer: BIO.NRW Cluster Biotechnology North Rhine-Westphalia

Donnerstag/Thursday, 08.10.2009

Medizin, Pharmazie / Medical and pharmaceutical applications

10:15–10:40 **Development and characterization of a novel microbioreactor system for organotypic cell culturing**
English Dr. Uta Fernekorn
hall 9 - Forum 1, stand C66

A novel bioreactorsystem containing a micro-structured polymeric scaffold was designed. It consists of microcontainers allowing a three-dimensional tissue-like aggregation of inserted cells. Circulation of cell culture medium was achieved by means of an integrated micro-pump or an external pump. HepG2 cells were used to characterize the system.

organizer: MacroNano-CIC (BMBF) Microfluidics and Biosensors Research Group

10:45–11:10
English

BIOENERGOINFORMATION OF A LIVING ORGANISM-“DINO96”-VERSATILE USE
mgr inz. Jan Stoj
hall 9 - Forum 2, stand G65

The investigations and observations demonstrate the effect of DINO-96 in various disciplines including bio-medicine, biomarkers, emergency operations under extreme conditions, immediate diagnosis using the DINO-96 method, biocosmetology, fighting bioterrorism, ecology, agriculture and veterinary, military, sport and..... AH1N1?

organizer: DINO-96

11:15–11:40 **Thermo Scientific MicroRNA (miRNA) expression profiling and functional analysis**
English Ana Dinarina
hall 9 - Forum 2, stand G65

miRNAs are crucial regulators of gene expression in numerous cellular processes. Here, we will discuss tools which allow the study of miRNA function and regulation. These tools include Thermo Scientific miRIDIAN® miRNA Mimics and Inhibitors which increase or reduce miRNA activity, respectively, as well as platform for miRNA expression profiling.

organizer: Thermo Fisher Scientific

Bioinformatik, Service / Bioinformatics, Services

10:45–11:10 **Challenges and Solutions for NGS Data Analysis**
English Dr. Roald Forsberg, PhD
hall 9 - Forum 1, stand C66

Organizations face several diverse bioinformatics challenges in generating scientific value from NGS data. These challenges affect both biomedical researchers and bioinformaticians. CLC bio has met these challenges and built a fast, user-friendly, and comprehensive enterprise platform for NGS data analysis.

organizer: CLC bio

11:15–11:40 **Innovationsmanagement am Beispiel des IdeenScout der Hölle & Hüttner AG**
Deutsch Dr. Steffen Hüttner
hall 9 - Forum 1, stand C66

Der Vortrag zeigt auf, wie die Experten der Hölle & Hüttner AG mit dem IdeenScout, einem innovativen Beratungsprozess, zielsicher bestehende Verbesserungspotenziale bei Prozessen und Produkten finden und durch individuell gestaltete Software-Anwendungen und Lösungsansätze nach Maß optimieren.

organizer: Hölle & Hüttner AG

Biotechnik / Bioengineering

10:15–10:40 **ÄKTAavant and Unicorn 6.0 - Setting the Future Standard in Protein Chromatography**
English Dr. Andreas Hochberger
hall 9 - Forum 2, stand G65

GE Healthcare has developed products for bioseparation for over 45 years. Today's ÄKTA™ design family has become the blueprint for preparative Protein Purification. With ÄKTAavant we now move into the next generation by defining new industrial standard with built-in Design of Experiment expertise.

organizer: GE Healthcare Europe GmbH, Saclay, France

Equipment

09:45–10:10 **ConnectS®-Elastomerfreie Lösungen in der Steriltechnik**
German Harry L.Jost
hall 9 - Forum 1, stand C66

Schnittstellen z.B. Rohrverbindungen sind in jedem Rohrleitungssystem der Steriltechnik ein wichtiges Element. Diese Schnittstellen werden in ihrer Funktionalität durch Druck, Temperatur und dem eingesetzten Elastomer beeinflusst. Betriebssicherheit und Bakteriologie sind untrennbar miteinander verbunden. ConnectS® bietet hier die optimale Lösung.

organizer: NEUMO GmbH + Co. KG

Career Development & Training

Perspektiven für Lebenswissenschaftler/*Perspectives for life scientists*

Halle 9, Stand E41, Gemeinschaftsstand BIOPRO Baden-Württemberg

06.10.2009, 14:30–15:30 Uhr/hrs

Mit einer exzellenten Forschungslandschaft und einer der höchsten Unternehmensdichten in Deutschland im Bereich Biotechnologie und Lebenswissenschaften ist Baden-Württemberg besonders attraktiv für gut ausgebildete Arbeitskräfte.

Aber wie ist eigentlich die derzeitige Situation auf dem Arbeitsmarkt für Lebenswissenschaftler? Welche Karrieremöglichkeiten gibt es? Welche Qualifikationen sind besonders wichtig?

Nach einem allgemeinen Überblick über den Arbeitsmarkt beschreiben Vertreter namhafter baden-württembergischer Unternehmen Anforderung und Chancen in ihrer jeweiligen Branche. Die Veranstaltung „Perspektiven für Lebenswissenschaftler“ zeigt mögliche Berufswege auf und soll als Orientierungshilfe für künftige Absolventen dienen.

In the fields of biotechnology and the life sciences, Baden-Württemberg has one of the highest density of companies in Germany and an excellent research. Therefore it is very attractive for qualified job-seekers.

But what is the current situation like on the life sciences job market? What about supply and demand? Which qualifications are particularly important? The „Perspectives for life scientists“ presents career options and is destined to be a platform of orientation for all future life science graduates and postgraduates.

Veranstalter/
Organizer BIOPRO Baden-Württemberg GmbH
Breitscheidstr. 10, D-70174 Stuttgart

Sprache Deutsch/German

Teilnahme/
Participation Teilnahme kostenfrei in Verbindung mit einer Messeeingangsmappe.
Participation free of charge to BIOTECHNICA ticket holders.

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Dienstag/Tuesday, 06.10.2009

Moderation: Dr. Ralf Kindervater, BIOPRO Baden-Württemberg GmbH; Hubert Romer, Kreativmarketing Romer

14:30–15:00 Kurzvortrag aus der Perspektive...

- ...eines Life-Sciences-Jobportals: jobvector (Tom Wiegand)
- ...einer Forschungsinstitution: Karlsruher Institut für Technologie (Dr. Bastian Rapp)
- ...eines Pharmaunternehmens: Boehringer Ingelheim GmbH (Manfred Hund)
- ...eines Dienstleistungsunternehmens: GATC Biotech AG (Elke Decker)
- ...einer Unternehmensberatung: VISCON GmbH & Co. KG (Ingo Köhler)

15:00–15:30 Frage- und Diskussionsrunde

Verleihung des BIOTECHNICA Studienpreises 2009

Award of the BIOTECHNICA Study Prize 2009

Halle 9, Stand E41, Gemeinschaftsstand BIOPRO Baden-Württemberg

07.10.2009, 10:30–11:30 Uhr/hrs

Der Verband Biologie, Biowissenschaften und Biomedizin – VBIO zeichnet herausragende experimentelle Abschlussarbeiten unterschiedlicher Disziplinen der Biowissenschaften aus. Der von Roche unterstützte und mit insgesamt von 5.000 Euro dotierte Preis wird am 7. Oktober um 10.30 Uhr an die drei Preisträger vergeben.

Outstanding experimental degree theses from all bioscience areas will be awarded by the VBIO. The prize is sponsored by Roche.

Veranstalter/
Organizer Verband Biologie, Biowissenschaften und Biomedizin in Deutschland e.V. – VBIO
Corneliusstr. 12, D-80469 München

Sprache Deutsch

Teilnahme/
Participation Teilnahme kostenfrei in Verbindung mit einer Messeeingangsmappe.
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jobvector-Karrierestand/*jobvector Career Booth*

Halle 8, Stand A07

06.10.2009–08.10.2009, 09:00–18:00 Uhr/hrs

Als zentrale Anlaufstelle für Stellensuchende dient der jobvector-Karrierestand: jobwall, Information und persönliche Beratung. An allen drei Messetagen können Bewerber an der jobvector-Jobwall aktuellste Stellenausschreibungen von BIOTECHNICA-Ausstellern finden, die über das Online-Angebot hinausgehen.

Bewerber erfahren alles über die neuesten Berufsaussichten, Trends und Perspektiven rund um den Arbeitsmarkt.

The goal of the jobvector Career Stand: jobwall, information, and advice. On all three event days, at the jobvector career booth, applicants can find current job ads from present company's of BIOTECHNICA and of jobvector, which go beyond the online vacancies.

Applicants can take advantage of several options to gather information and find out all there is to know about the topics, career choice, application and employment.

Veranstalter/
Organizer jobvector – the Science career center
Kölner Landstr. 40, D-40591 Düsseldorf

Sprache Deutsch/German

Teilnahme/
Participation Teilnahme kostenfrei in Verbindung mit einer Messeeingangsmappe.
Participation free of charge to BIOTECHNICA ticket holders.

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E-mail: martina.sribar@jobvector.com

jobvector-Jobtour

Halle 8, Stand A07

Donnerstag/Thursday, 08.10.2009, 09:00–18:00 Uhr/hrs

Auf der „jobvector-Jobtour“ am 08.Oktober 2009 können Sie am jobvector-Stand und an den Ständen beteiligter Unternehmen mit Personalverantwortlichen ins Gespräch kommen. Sie können sich persönlich vorstellen und einen ersten Eindruck gewinnen. Das jobvector-Begleitheft zur Jobtour ist kurz vor der Messe als Download verfügbar oder vor Ort auf der BIOTECHNICA erhältlich.

At the "jobvector-Jobtour" on October 8, 2009 applicants can meet with HR managers of the participating companies directly at their booths, hand in applications, take interviews, and get a first impression of the employers in person. The companion booklet leads you to the booths of those companies who are looking for new employees. Available as download shortly before the event and at BIOTECHNICA.

Veranstalter/
Organizer jobvector – the Science career center
Kölner Landstr. 40, D – 40591 Düsseldorf

Sprache Deutsch/German

Teilnahme/
Participation Teilnahme kostenfrei in Verbindung mit einer Messeeintrittskarte.
Participation free of charge to BIOTECHNICA ticket holders.

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jobvector-Forum

Halle 8, Stand B19

Donnerstag/Thursday, 08.10.2009, 09:25–17:00 Uhr/hrs

Am 8. Oktober 2009 wird den Bewerbern ein spannendes und unterhaltsames Vortragsprogramm rund um die Themen Berufswahl, Bewerbung und Karriere geboten.

Top Arbeitgeber präsentieren Qualifikationsanforderungen und Karrierewege für Naturwissenschaftler.

Im „Bewerbungsgespräch live“ wird sich ein Bewerber den Fragen des Personalverantwortlichen stellen – im Anschluss wird das Gespräch analysiert.

On October 8, 2009 an exciting and comprehensive programme of talks surrounding the topics, choice of profession, application and career.

Top companies are presenting career-options for the natural scientists. In a „live job interview“ an applicant answers questions posted by a HR manager- the conversation will be analyzed afterwards.

Veranstalter/
Organizer jobvector – the Science career center
Kölner Str. 40, D-40591 Düsseldorf

Sprache Deutsch/German

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Contact Dr. Martina Sribar
Telefon: +49 211 301384-08
Fax: +49 211 301384-18
E-mail: martina.sribar@jobvector.com

09:25–09:30 Begrüßung

09:30–09:55 Der Vertrieb ist attraktiv!

Dr. Wolfgang Kronemeyer, Qiagen; Dr. Peter Kunze, Eppendorf, Sprecher der Fachabteilung Life Science Research, LSR

09:55–10:15 BioBusiness summer school 2010

Dr. Debby Keukens, BioBusiness summer school

10:15–10:40 i3 Pharma Resourcing – Ihr Karrierepartner in der klinischen Forschung

Renate Walter-Kirst, i3 Pharma Resourcing

Pause

11:00–11:20 Merck stellt sich vor

Dr. Gerd Battermann und Yvonne Schlissa, Merck KGaA

11:20–11:45 nemensis ag – the human factor

Christian Schneeberger, Nemensis AG

11:45–12:05 Wohin Sie Ihr Weg mit Innovex führen wird

Bernd Zielonka, Innovex GmbH

Pause

13:05–13:25 Über die Kunst kleinste Dinge zu trennen

Prof. Dr. Uwe Heinlein, Miltenyi Biotec GmbH

13:25–13:45 Abbott – Wer sind wir?

Eines der führenden forschenden Gesundheitsunternehmen stellt sich vor
Joachim Walk, Abbott GmbH & Co. KG

13:45–14:10 Thermo Fisher Scientific – World Leader in Serving Science

Günter Wagner, Thermo Fisher Scientific

Pause

14:10–14:20 Life even better

Dr. Thomas Schäfer, Life Technologies GmbH

14:40–15:00 Wissen-schaf(f)t Karriere – Kelly Scientific Resources:

Ihr starker Partner in der Personalvermittlung

Simone Flachmann, Kelly Scientific Resources

15:00–15:20 Jobsuche in der Praxis

Tom Wiegand, jobvector

Pause

15:20–15:30 Bewerbungsgespräch live: Ein Student kurz nach der Promotion.....

Heino Plöger, Olympus Europa Holding GmbH

jobvector-Check

Convention Center (CC) Arkaden, Raum 214, 216

08.10.2009, 09:00-18:00 Uhr/hrs

Am jobvector career day bietet jobvector gemeinsam mit der Personalagentur Kelly Scientific Resources eine fachspezifische Durchsicht Ihrer Bewerbungsunterlagen an.

In kleinen Gruppen werden die Stärken und Schwächen der mitgebrachten Bewerbungen analysiert. Die intensive Analyse und Beratung wird in Kleingruppen in separaten ruhigen Räumlichkeiten durchgeführt.

During the jobvector career day, the HR agency Kelly Scientific Resources offers an expert check of your documents in cooperation with jobvector.

In small groups the strong and weak points of your application that you bring along, will be analyzed. The intense check and consultation takes place in separate and quiet rooms.

Veranstalter/
Organizer jobvector – the Science career center

Kölner Landstr. 40, D-40591 Düsseldorf

Sprache Deutsch/German

Teilnahme/
Participation Teilnahme kostenfrei in Verbindung mit einer Messeeingangskarte.
Die Anzahl der Teilnehmer ist beschränkt; bitte melden Sie sich frühzeitig an unter www.jobvector.com/biotechnica.

Participation free of charge to BIOTECHNICA ticket holders. The number of participants is limited; please register early on www.jobvector.com/biotechnica.

Kontakt/
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E-mail: martina.sribar@jobvector.com



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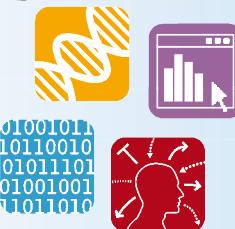
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EUROPE



Bio-ITWorld Conference & Expo CONFERENCE-AT-A-GLANCE

Monday, 5 October

13:00-14:00	Pre-Conference Registration	
14:00-17:30	Afternoon Workshop: Sequencing Data Storage	
16:00-18:30	Conference Registration	
18:30	BIOTECHNICA Opening and European Award Ceremony plus Reception	

Tuesday, 6 October

08:30-19:00	Track 1: IT Hardware for the Life Sciences	Track 2: Bioinformatics for Genomics
08:50-12:30	High Performance Computing Trends/ Scaling Up for the Data Deluge	Next-Generation Sequencing Data Analysis: Mapping DNA
09:00-18:00	Exhibit and Poster Viewing - Follow Signs to Bio-IT World Pavilion	
12:30-13:45	Lunch for Purchase in Exhibit Hall, Exhibit and Poster Viewing - Follow Signs to Bio-IT World Pavilion	
13:30	iPod® Touch Raffle in Pavilion. Drop your business card at the Bio-IT World Registration Desk for a chance to win! Winner must be present*	
13:50-17:30	Scaling Up for the Data Deluge	Comprehending Gene Regulation
17:45-19:00	Interactive Discussion Groups	
19:00-21:00	CHI Networking Dinner Reception Sponsored by	

Wednesday, 7 October

	Track 1: IT Hardware for the Life Sciences	Track 2: Bioinformatics for Genomics
08:50-12:30	Cloud Computing/BioBanking and Large Integrative Life Science Projects/Future Trends	Applying Genotype to Phenotype Correlations
09:00-18:00	Exhibit and Poster Viewing - Follow Signs to Bio-IT World Pavilion	
12:30-13:45	Lunch for Purchase in Exhibit Hall, Exhibit and Poster Viewing - Follow Signs to Bio-IT World Pavilion	
13:00-17:30	Conference Registration	
13:30	iPod® Touch Raffle in Pavilion. Drop your business card at the Bio-IT World Registration Desk for a chance to win! Winner must be present*	
	Track 3: IT Software for the Life Sciences	Track 4: Data Integration and Knowledge Management
13:50-17:30	IT & Business Process Integration / Open and Collaborative Platforms	Leveraging Informatics to Drive Innovation & Productivity in Drug Discovery / Leveraging Databases and Data Mining to Improve the Drug Discovery Process
18:30	BIOTECHNICA Night Original Bavarian Beer Hall, full dinner reception, live music	

Thursday, 8 October

	Track 3: IT Software for the Life Sciences	Track 4: Data Integration and Knowledge Management
08:50-12:30	Data Modeling, Storage, Management, and Analysis Tools	Enabling Translational Research and Biomarker Discovery through Informatics / Integrating Chemogenomics and Systems Biology Data
09:00-18:00	Exhibit and Poster Viewing - Follow Signs to Bio-IT World Pavilion	
12:30-13:45	Lunch for Purchase in Exhibit Hall, Exhibit and Poster Viewing - Follow Signs to Bio-IT World Pavilion	
13:30	iPod® Touch Raffle in Pavilion. Drop your business card at the Bio-IT World Registration Desk for a chance to win! Winner must be present*	
13:50-17:30	Ontologies and Semantic Web	Knowledge Management for Pathway Analyses / Ontologies and Semantic Web
17:30	Conference Adjourns	*Apple® is not a sponsor or participant in this program

Locations of Sessions, Exhibits, Posters and Receptions

MONDAY, 5 OCTOBER - BioIT World Europe

Sequencing Data Storage
Biotechnica Opening Reception

Rooms 13/14
Convention Center Room 1

TUESDAY, 6 OCTOBER BioIT World Europe

Track 1 Rooms 13/14
Track 2 Rooms 15/16
Breakout Discussion Groups Rooms 17/18
CHI Dinner and Networking Reception Foyer 13/14/15/16

TUESDAY, 6 OCTOBER - PEGS Europe

Track 1 Room 1A
Track 2 Room 1B
Breakout Discussion Groups Rooms 1A/1B
CHI Dinner and Networking Reception Foyer unterhalb der 100er Sale

WEDNESDAY, 7 OCTOBER BioIT World Europe

Track 1 & 3 Room 13/14
Track 2 & 4 Room 15/16
Biotechnica Night Münchner Hall (Munich Hall)

WEDNESDAY, 7 OCTOBER - PEGS Europe

Track 1 & 3 Room 1A
Track 2 & 4 Room 1B

THURSDAY, 8 OCTOBER BioIT World Europe

Track 3 Room 13/14
Track 4 Room 2

THURSDAY, 8 OCTOBER - PEGS Europe

Track 3 Room 1A
Track 4 Room 1B

Coffee Breaks (mid-morning) Outside of Session Room

iPod® Touch Raffle Hall 9 (Pavilion)

Conference Registration Front of Room 3

Poster Presentations Hall 9 (Pavilion)

Exhibits Hall 9 (Pavilion)

Refreshment Breaks Outside of Session Room

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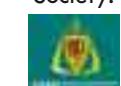
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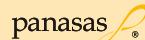


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TUESDAY, 6 OCTOBER (Morning Sessions)

Track 1
IT Hardware for the
Life Sciences
ROOM: 13/14



Track 2
Bioinformatics for
Genomics
ROOM: 15/16



08:30-09:00 Morning Coffee
08:30-19:00 Conference Registration
09:00-18:00 Exhibit and Poster Viewing - Follow signs to the BioIT World Pavilion

08:50 Chairperson's Remarks
Derek Burke, EMEA Marketing Director, Panasas, Inc.

HIGH PERFORMANCE COMPUTING TRENDS

09:05 FEATURED SPEAKER
Computing and Storage Trends
Chris Dagdigian, Founding Partner and Director of Technology, BioTeam, Inc.

SCALING UP FOR THE DATA DELUGE

09:35 Scaling Up Science and IT: Sanger Centre's Perspective
Phil Butcher, Head of Systems, Sanger Centre

10:05 Technology Highlights

11:00 Sweden at the Forefront: The Buildup of Computational Power and Large-Scale Storage for Gene-Sequence Data

Ingela Nyström, Ph.D., Director of UPPMAX, Centre for Image Analysis, Uppsala University

11:30 Scaling Up Science and IT: Broad Institute's Perspective

Matthew Trunnell, Manager, Research Computing, Broad Institute

12:00 Ultra-High Throughput Sequencing Facilities: Managing the Deluge of Data

Dirk Evers Ph.D., Director of Computational Biology, Illumina

10:35 Coffee Break

11:00 Genetics of Complex Diseases: From Common to Rare Sequence Variants

Sergey Nejentsev, M.D., Ph.D., Royal Society Research Fellow, Department of Medicine, University of Cambridge

11:30 FEATURED SPEAKER
The Role of Systems Biology in Bacterial Pathogenesis and Vaccine Discovery

Antonello Covacci, M.D., Global Head, Systems Biology, Novartis Vaccines and Diagnostics

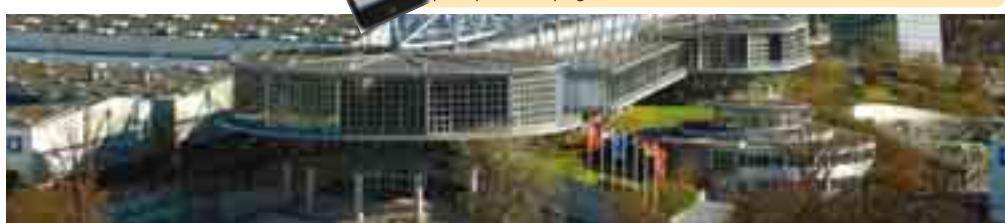
12:00 HP peta-byte Scale Storage Solution for Genomics: Mastering Sequencing Data Challenges

Eamonn O'Toole, Industry Architect, Worldwide Life Sciences and Pharma, Hewlett Packard

12:30-13:45 Lunch for purchase in the Exhibit Hall, Exhibit and Poster Viewing - Follow Signs to Bio-IT World Pavilion



iPod® Touch Raffle at 13:30 in Pavilion (Hall 9). Drop off your business card at Bio-IT World Registration Desk for a chance to win ONE of THREE iPod Touch (valued at US \$199). Must be present to win. One drawing daily. *Apple® is not a sponsor or participant in this program.



TUESDAY, 6 OCTOBER (Afternoon Sessions)

Track 1
IT Hardware for the
Life Sciences
ROOM: 13/14



Track 2
Bioinformatics for
Genomics
ROOM: 15/16

COMPREHENDING GENE REGULATION

14:00 Chairperson's Remarks
Herbert Auer, M.Sc., Director, Institute for Research in Biomedicine, Parc Científic de Barcelona

14:05 Towards Quantitative Models of Gene Regulation
Thomas Manke, Ph.D., Researcher, Computational Biology, Max Planck Institute for Molecular Genetics

14:35 Modeling of the U1 snRNP Assembly Pathway in Alternative Splicing in Human Cells using Petri Nets
Janice Kielbassa, M.Sc., Researcher, Biometry and Evolutionary Biology Laboratory, University Claude Bernard

13:50 Chairperson's Remarks

14:05 Scaling Up Science and IT: Perspective from CSC - IT Center for Science, Ltd.
Kimmo Koski, Managing Director, CSC - IT Center for Science, Ltd.

15:05 HP peta-byte Scale Storage Solution for the Life Sciences: Mastering the Data Challenge in the Life Sciences
Sponsored by
Eamonn O'Toole, Industry Architect, Worldwide Life Sciences and Pharma, Hewlett Packard

15:35 Refreshment Break

16:00 PRACE & HPC Computing

Thomas Eickermann, Ph.D., Head of Networking Division, Forschungszentrum Jülich; Project Manager of PRACE

16:30 DEISA - On the Way towards a European HPC Ecosystem

Hermann Lederer, Ph.D., Head, High Performance Application Group, Garching Computing Centre of the Max Planck Society; Member, DEISA Coordination Team

16:00 Colorectal Cancer-Based Gene Expression Signature for Prognosis of Different Tumor Types

Eike Staub, Ph.D., Research Scientist, Bio- & Chemoinformatics DA, Merck Serono R & D, Merck KGaA

16:30 Global Gene Expression Profiling of Progesterone Receptor Modulators in T47D Cells Provides a New Classification System
Weibke Afhüppé, Ph.D., Therapeutic Research Group, Bayer Schering Pharma AG

17:00 PANEL DISCUSSION with Afternoon Speakers "Are we Managing the Data Deluge or is IT Managing Us?"
Moderator: Herbert Auer, M.Sc., Director, Functional Genomics Core, Institute for Research in Biomedicine, Parc Científic de Barcelona

17:45-19:00 Interactive Breakout Discussion Groups (Rooms 17 & 18)

Choosing and Using Biomarkers in Early Development - A Leap of Faith or a Business Decision?

Andrew Chadwick, Ph.D., Principal Consultant, Life Science and Health Care, Tessella
Sponsored by

The Management of Images and Image Workflows in the Life Sciences

Eamonn O'Toole, Industry Architect, Worldwide Life Sciences & Pharma, Hewlett Packard
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Cloud Computing and Scientific Computing Environments for the Life Sciences

Karim Chine, Software Architect and Coordinator, Biocep

Weapons of Choice: BLAT to Bioconductor, Spotfire to SeqAnswers
Michael Cariaso, Founder, SNPedia.com

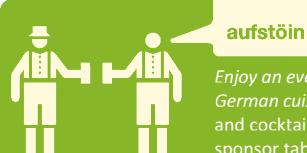
Scientific Software Development Outsourcing - New Trend in the Life Sciences Industry?

Yuriy Gankin, Ph.D., Chief Scientific Officer, GGA Software Services, LLC
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High-throughput Sequencing Environments: Can IT Manage the Deluge of Data?

Chris Blessington, Senior Director, Isilon Systems
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Discussion and Speaker to be Announced
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19:00-21:00 CHI Networking Dinner Reception
Foyer 13-16

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WEDNESDAY, 7 OCTOBER (Morning Sessions)

Track 1: IT Hardware for the Life Sciences

ROOM: 13/14



Track 2: Bioinformatics for Genomics

ROOM: 15/16



08:30-09:00 Morning Coffee

09:00-18:00 Exhibit and Poster Viewing - Follow signs to the BioIT World Pavilion

08:50 Chairperson's Remarks

CLOUD COMPUTING

09:05 Maximizing Utility of the Cloud

Chris Dagdigian, Founding Partner and Director of Technology, BioTeam, Inc.

10:05 What the Cloud can do for Computational Life Sciences: Biocel's Unified Perspective

*Karim Chine, Software Architect and Coordinator, Biocel
Wayne W. Jones, Shell Global Solutions*

APPLYING GENOTYPE TO PHENOTYPE CORRELATIONS

08:50 Chairperson's Remarks

Panos Deloukas, Ph.D., Senior Investigator, The Wellcome Trust Sanger Institute

09:05 Tracing Haplotype Homozygosity for Detecting Putatively Functional Genetic Polymorphisms

Markus Schirmer, M.D., M.Sc., Junior Scientist, Clinical Pharmacology, Georg-August-University

09:35 Genome-Wide Association Studies for Genetic Determinants of Warfarin Dose

Panos Deloukas, Ph.D., Senior Investigator, Human & Medical Genetics, The Wellcome Trust Sanger Institute

10:05 Five Annotated Full Length Personal Genomes

10:35 Coffee Break

BIOBANKING AND LARGE INTEGRATIVE LIFE SCIENCE PROJECTS

11:00 SIMBioMS - IT Solution for Collaborative Discovery Projects in Biomedical Genomics

Maria Krestyaninova, Ph.D., Biomedical Informatics Coordinator, European Bioinformatics Institute (EMBL-EBI)

11:30 Sage Bionetworks: Current Initiatives and New Directions

Stephen H. Friend, M.D., Ph.D., President, Sage Bionetworks

FUTURE TRENDS

12:00 European Commission's Future and Emerging Technologies Scheme

Maria Ramalho-Natario, GEANT & e-Infrastructure, Information Society and Media Directorate General (INFSO), European Commission



12:30-13:45 Lunch for purchase in the Exhibit Hall, Exhibit and Poster Viewing - Follow Signs to Bio-IT World Pavilion

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13:45 Close of IT Hardware for the Life Sciences Conference



WEDNESDAY, 7 OCTOBER (Afternoon Sessions)

Track 3: IT Software for the Life Sciences

ROOM: 13/14



Track 4: Data Integration and Knowledge Management

ROOM: 15/16



IT & BUSINESS PROCESS INTEGRATION

14:05 FEATURED SPEAKER

IT-Enabled Process Integration Risk Management
Chris Asakiewicz, Ph.D., Affiliate Professor of Information Management, Wesley J. Howe School of Technology Management, Stevens Institute of Technology

OPEN AND COLLABORATIVE PLATFORMS

14:35 Building a Flexible Infrastructure for Life Science with Federated Services, Open Source, and Bioclipse

*Lars Carlson, Ph.D., Global Safety Assessment, AstraZeneca R&D
Ola Spjuth, M.Sc., Bioclipse Coordinator, Uppsala University*

15:05 Nature Network and Connotea: Social-Software Projects

Ian Mulvany, Product Development Manager, Nature Publishing Group; Project Manager, Nature Network and Connotea

15:35 Refreshment Break

16:00 Translational Research Informatics Meets Cloud Computing

*James DeGreef, VP Market Strategy, GenoLogics
Christina Schroeder, Manager Customer Solutions, GenoLogics*

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16:30 How myExperiment Supports Social Curation, Workflow & Protocols

Carol Goble, Ph.D., Professor of Computer Science, University of Manchester; Principal Investigator (PI), myGrid project

17:00 Federating Computing for the Life Sciences, Towards a Universal Platform

*Karim Chine, Software Architect and Coordinator, Biocel
Bernd Bischl, Fakultät Statistik, Technische Universität Dortmund*

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BIOLOGICAL DATABASES

16:00 Analysis of Integrated Networks to Identify Biomarker-Relevant Components

Edgar Wingender, Ph.D., President & CSO, BIOBASE; Professor and Director, Dept. Bioinformatics, UMG, Univ. of Goettingen

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 NEXTBIO

16:15 Gene and Sequence-Centric Framework For Mining Large Collections of Public and Proprietary Data

Ilya Kupershmidt, Co-founder and Vice President Products, NextBio

16:30 Automated Document-Based Text Annotation, Data Linking and Network Generation

Reinhard Schneider, Ph.D., Team Leader, Structural and Computational Biology Unit, European Molecular Biology Laboratory (EMBL)

17:00 Information Silo Breaker -- An AstraZeneca Approach to Leverage Information & Knowledge Sharing

Mats Sundgren, Ph.D., Principal Scientist, Global Clinical Development, AstraZeneca R&D

17:30 Close of Day's Sessions

18:30 BIOTECHNICA Night – Original Bavarian Beer Hall, full dinner reception, live music, Münchner Halle (Munich Hall)



THURSDAY, 8 OCTOBER (Morning Sessions)

Track 3: IT Software for the Life Sciences
ROOM: 13/14



Track 4: Data Integration and Knowledge Management
ROOM: 2



09:30-09:00 Morning Coffee

09:00-18:00 Exhibit and Poster Viewing - Follow signs to the BioIT World Pavilion

DATA MODELING, STORAGE, MANAGEMENT, AND ANALYSIS TOOLS

09:05 Converging Computer Science and Systems Biology

Corrado Priami, Professor of Computer Science, University of Trento; President and CEO, The Microsoft Research - University of Trento Centre for Computational and Systems Biology (CoSBI)

09:35 Genetics, Genomics and Systems Biology

Hans Lehrach, Ph.D., Founder, Alacris Pharmaceuticals; Director, Molecular Genetics, Max Planck Institute; Professor in Biochemistry, Free University of Berlin

10:05 ISA: Standards and Infrastructure for Managing Experimental Metadata

Eamonn Maguire, Software Engineer, EMBL-EBI
Susanna-Assunta Sansone, Coordinator, EMBL-EBI and NERC-NEBC
Philippe Rocca-Serra, Technical Coordinator, EMBL-EBI and NERC-NEBC

10:35 Coffee Break

11:00 Integration of Data in BioModels Database Using MIRIAM

Camille Laibe, Software Developer, European Bioinformatics Institute

11:30 Molwind - Mapping Complex Graphs onto Geospatial Worlds

Christian Herhaus, Ph.D., Bio- and Chemoinformatics, Merck Serono

12:00 Development of an Automated Information System for Cell Therapy Manufacturing

Fabio Triolo, D.d.R., M.Phil., Ph.D., Technical Director, Regenerative Medicine and Cell Therapy Unit, Mediterranean Institute for Transplantation and Advanced Specialized Therapies (ISMETT)
Tommaso Piazza, Eng.D., Chief Information Officer, Mediterranean Institute for Transplantation and Advanced Specialized Therapies (ISMETT)

12:30-13:45 Lunch for purchase in the Exhibit Hall, Exhibit and Poster Viewing - Follow Signs to Bio-IT World Pavilion



Track 3: IT Software for the Life Sciences
ROOM: 13/14

THURSDAY, 8 OCTOBER (Afternoon Sessions)

Track 3: IT Software for the Life Sciences
ROOM: 13/14



Track 4: Data Integration and Knowledge Management
ROOM: 2



13:50 Chairperson's Remarks

14:05 CASTOR QC - A Database Approach for Handling Large Genomic Data Sets

Tibor van Rooij, Bioinformatics Director, Génome Québec & Montreal Heart Institute Pharmacogenomics Centre

14:35 CBIP: Successfully Implementing a Large-Scale Automation and Informatics Platform for Academic Probe Discovery

Raza Shaikh, Associate Director of Informatics, Chemical Biology Platform, The Broad Institute

KNOWLEDGE MANAGEMENT FOR PATHWAY ANALYSES

13:50 Chairperson's Remarks
Yuriy Gankin, Ph.D., Chief Scientific Officer, GGA Software Services, LLC

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14:05 Novel Information Integration Approaches to Current Challenges of Analyzing and Visualizing Network Data and Pathways

Dr. Mario Albrecht, Group Leader, Molecular Networks in Medical Bioinformatics, Max Planck Institute for Informatics

14:35 A Reason-Able View to the Web of Pathway Data

Vassil Mornichev, Group Leader, Semantic Life Science Applications, Ontotext

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15:05 Emerging Cross Pharma Collaboration - How Can Services Make the Difference?

Nick Lynch, Ph.D., Chemistry Domain Expert, AstraZeneca

15:35 Refreshment Break

ONTOLOGIES AND SEMANTIC WEB ROOM: 13/14

* Shared Session with Track 3: IT Software for the Life Sciences and Track 4: Data Integration and Knowledge Management

16:00 The W3C Health Care and Life Sciences Interest Group: Semantic Web in Action

M. Scott Marshall, Ph.D., W3C HCLS IG Co-chair, Informatics Institute, University of Amsterdam

16:30 Pfizerpedia Patents - a Semantic Wiki Database of Patent Information

Andrew Berridge, B.Sc., Delivery Advisor, Informatics, Pfizer

17:00 BIODIVER – A Federated Query Engine Integrating with DAS

Oliver Karch, Ph.D., Bio- and Chemoinformatics, Merck Serono

17:30 Conference Adjourns



Stephen Friend; Dai Hongyue; Per Hall; Nils Wilking; Eric E. Schadt; Peter M. Shaw; Jonas Bergh; and Joshua Millstein:

New Computationally Parsimonious FDR Approach Identifies Genes Predictive of Breast Cancer Survival

Santaris Pharma A/S
106. Anders Jacobsen; Anders Krogh; Sakari Kauppinen; and Morten Lindow: miRNAid:

A Generic Programming Interface for MicroRNA Data Resources

Simon Fraser University
107. Arvind Gupta; Peter Unrau; and Thomas Henrich: Modeling RNAi-Based Cellular Memory Systems

Technical University of Denmark
108. Marie Louise Davidsen; Agata Wesolowska; Karine

Audouze; Thomas Sicheritz-Ponten; Marlene Dalgaard; Betina Nielsen; Mads Bak; Niels Tommerup; Henrik Leffers; Søren Brunak; Kjeld Schmiegelow; and Ramneek Gupta: Targeted Genotyping to Study Drug Response in Childhood Acute Lymphoblastic Leukemia

University of British Columbia
109. Jessica Jackson; Shima Nakanishi; Jennifer Gardner;

Thomas Henrich; Jeff Haug; Mark Johnston; Sue Jasperse; Michael Kobor; Ali Shilatifard; and Julia Schulze: Genome-Wide Analysis of Histone Modifications and Their Role During Cell Cycle

Bio-IT World CONFERENCE & EXPO '09

Poster Presenters

Presenting Monday, October 5th through Thursday, October 8th

DECODON GmbH

102. Matthias Berth: Integrating Protein and Gene Information from Multiple Web Resources

European Molecular Biology Laboratory (EMBL) Heidelberg
103. Bernd Wendt; Joe Lewis; and Jan Selig: Getting It Right:

Optimized Active Compound Selection in Small Molecule High Throughput Screening

GenoLogics Life Sciences Software, Inc.
104. Melissa Jablonski; James DeGreef; and Christina Schroeder: Translational Research Informatics at the

University of Texas Medical Branch

Sage Bionetworks
105. Dmitri Volkson; John R. Lamb; Kristian Wennmalm; Camila Szene; Linda Lindström; Ke Hao; David A. Henderson; Johanna Smeds; Theodorus Foukakis; Lambert Skoog;

PEGS Europe

Protein Engineering Summit

6-8 October 2009

Exhibition Grounds
Hannover | Germany



6-7 October

Third Annual

Improving Protein Expression through Innovation

Inaugural

Phage Display of Therapeutic Antibodies

7-8 October

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Next Generation Technologies for Protein Science

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PEGS SUMMIT EUROPE AT-A-GLANCE

MONDAY, 5 OCTOBER

16:00-18:30 Conference Registration

18:30 BIOTECHNICA Opening and EUROPEAN BIOTECHNICA AWARD Ceremony plus Reception

TUESDAY, 6 OCTOBER

08:30-19:00 Conference Registration

09:00-18:00 Exhibit & Poster Viewing

Track 1: Improving Protein Expression through Innovation

Track 2: Phage Display of Therapeutic Antibodies

Lunch for Purchase in the Exhibit Hall and Exhibit & Poster Viewing

- Please follow signs to the PEGS Pavilion

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Track 1: Improving Protein Expression through Innovation

Track 2: Phage Display of Therapeutic Antibodies

17:45-19:00 Interactive Breakout Discussion Groups

19:00-21:00 CHI Networking Dinner Reception sponsored by BioSilta iDNA 2.0 EGENEART

WEDNESDAY, 7 OCTOBER

09:00-12:30 **Track 1: Improving Protein Expression through Innovation**

Track 2: Phage Display of Therapeutic Antibodies

Lunch for Purchase in Exhibit Hall and Exhibit & Poster Viewing

- Please follow signs to the PEGS Pavilion

iPod® Touch Raffle in Pavilion. Drop your business card at the PEGS Registration Desk for a chance to win! Winner must be present*

13:00-17:30 Conference Registration

Track 3: Next Generation Technologies for Protein Science

Track 4: Antibodies from Bench to Bedside

18:30 BIOTECHNICA Night: Beer Hall, full dinner reception, a live band

THURSDAY, 8 OCTOBER

09:00-12:30 **Track 3: Next Generation Technologies for Protein Science**

Track 4: Antibodies from Bench to Bedside

Lunch for Purchase in Exhibit Hall and Exhibit & Poster Viewing

- Please follow signs to the PEGS Pavilion

iPod® Touch Raffle in Pavilion. Drop your business card at the PEGS Registration Desk for a chance to win! Winner must be present*

Track 3: Next Generation Technologies for Protein Science

Track 4: Antibodies from Bench to Bedside

17:30 Conference Adjourns

*Apple® is not a sponsor or participant in this program

Locations of Sessions, Exhibits, Posters and Receptions

MONDAY, 5 OCTOBER

Biotechnica Opening Reception

Convention Center Room 1

TUESDAY, 6 OCTOBER - PEGS Europe

Track 1	Room 1A
Track 2	Room 1B
Breakout Discussion Groups	Rooms 1A/1B
CHI Dinner and Networking Reception	Foyer unterhalb der 100er Sale

WEDNESDAY, 7 OCTOBER - PEGS Europe

Track 1 & 3	Room 1A
Track 2 & 4	Room 1B

THURSDAY, 8 OCTOBER - PEGS Europe

Track 3	Room 1A
Track 4	Room 1B

Coffee Breaks (mid-morning) Outside of Session Room

Conference Registration Front of Room 3
Exhibits Hall 9 (Pavilion)

iPod® Touch Raffle Hall 9 (Pavilion)

Poster Presentations Hall 9 (Pavilion)
Refreshment Breaks Outside of Session Room

TUESDAY, 6 OCTOBER BioIT World Europe

Track 1	Rooms 13/14
Track 2	Rooms 15/16
Breakout Discussion Groups	Rooms 17/18
CHI Dinner and Networking Reception	Foyer 13/14/15/16

WEDNESDAY, 7 OCTOBER BioIT World Europe

Track 1 & 3	Room 13/14
Track 2 & 4	Room 15/16
Biotechnica Night	Münchener Hall

THURSDAY, 8 OCTOBER BioIT World Europe

Track 3	Room 13/14
Track 4	Room 2



aufstöön



Tuesday, October 6 - Foyer unterhalb der 100er Sale
19:00-21:00 CHI Networking Dinner Reception

Enjoy an evening with your colleagues and discover the world of German cuisine. The evening includes a full-dinner reception and cocktails. While there, take a moment to visit the reception sponsor tables to learn about their products.



About Cambridge Healthtech Institute

Founded in 1992, Cambridge Healthtech Institute (CHI) strives to develop quality information resources that provide valuable new insights and competing points of view while offering balanced coverage of the latest developments in the life sciences industry. Basic research related to commercial implications is covered, with heavy emphasis placed on end-user insights into new products and technology as well as coverage of the strategy behind the business.

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PEGS Europe Sponsor Descriptions

Attana AB

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Cosmix is a development stage biotechnology company that is using proprietary technologies to develop a range of biotherapeutic agents as well as highly specific binding peptides for use in the diagnostic, imaging and biopurifications

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DNA 2.0 Inc.

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DNA 2.0 is a synthetic biology company providing gene synthesis and protein engineering products and services. The company enables scientists to accomplish new things in molecular biology through a range of novel synthetic applications and backed by expert scientific support.

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www.domainex.co.uk Domainex is a specialist biotechnology company. We operate both as a CRO and drug discovery company. For drug discovery, Domainex has a small pipeline looking at NTP domains in targets with high validation. As a CRO, we offer unique chemistry and molecular biology services aimed at tackling difficult targets. Combinatorial Domain Hunting (CDH) and a variation of CDH for protein:protein interaction (CDH2) are the main molecular biology technologies.

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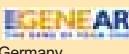
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TUESDAY, 6 OCTOBER (Morning Sessions)

Improving Protein Expression through Innovation

Track One Room 1A

08:30-09:00 Morning Coffee
08:30-19:00 Conference Registration

09:00-18:00 Exhibit & Poster Viewing - Follow signs to the PEGS Pavilion

OPENING KEYNOTE SESSION

09:00-09:05 Chairperson's Remarks



09:05-09:35 Protein Tools for Antibody Discovery: Taming Complex and Difficult Proteins
Trevor Wilkinson, Ph.D., Head, Protein Sciences, MedImmune



09:35-10:05 Thermostable Mutants for the Crystallographic Study of GPCR Activation
Joerg Standfuss, Ph.D., Senior Post-Doctoral Researcher, MRC-Laboratory of Molecular Biology

PROGRESS IN PROTEIN EXPRESSION

10:05-10:35 Cell-Free Expression of Membrane Proteins

Frank Bernhard, Ph.D., Lab Leader, Institute of Biophysical Chemistry, Goethe University-Frankfurt

10:35-11:00 Coffee Break Sponsored by Sloning BioTechnology

11:00-11:30

Secreted Expression of Self-Assembling Proteins in *Pichia pastoris*

Catarina Ferreira da Silva, M.Sc., Bioprocess Engineering, Wageningen University and Research Centre

11:30-12:00 Lemo21(DE3): A Generic *E. coli*-based Protein Overexpression Platform Guaranteeing Maximum Yields

Jan-Willem de Gier, Ph.D., Associate Professor, Department of Biochemistry & Biophysics, Stockholm University/Xbrane Bioscience AB

12:00-12:30 Comparative Study on Autologous Expression Sponsored by GENEART

Improvement in Human Cells by Gene Optimization: Results and Applications
Hans Buegl, Ph.D., Head, Marketing and Sales, GENEART AG

12:30-13:45 Lunch for Purchase in the Exhibit Hall and Exhibit & Poster Viewing - Please follow signs to the PEGS Pavilion



iPod® Touch Raffle at 13:30 in Pavilion (Hall 9). Drop off your business card at PEG Summit Europe Registration Desk for a chance to win ONE of THREE iPod Touch (valued at US \$199). Must be present to win. One drawing daily. *Apple® is not a sponsor or participant in this program.

Phage Display of Therapeutic Antibodies

Track Two Room 1B



Improving Protein Expression through Innovation

Track One Room 1A

PROTEIN EXPRESSION FOR CMC AND CHALLENGING PROTEINS

14:00-14:05 Chairperson's Remarks

Trevor Wilkinson, Ph.D., Head, Protein Sciences, MedImmune

14:05-14:35 EnBase: Novel High Cell Density Culture-Based Screening Platform for Recombinant Protein Production and Bioprocess Development
Peter Neubauer, Ph.D., Professor, Department of Bioprocess Technology, Institute of Biotechnology, Technische Universität Berlin

14:35-15:05 Helmholtz Protein Sample Production Facility for Large Scale Production of Protein Samples for Structural Analysis

Joop van den Heuvel, Ph.D., Group Leader, Structural Biology - Protein Sample Production Facility, Helmholtz Centre for Infection Research

15:05-16:00 Refreshment Break Sponsored by BioSita

16:00-16:30 Preparation of Stable Isotope-Labeled Cannabinoid Receptor CB2 for NMR Structural Studies
Alexei Yeliseev, Ph.D., Staff Scientist, LMBB, NIH/NIAAA

16:30-17:00 Library-Based Construct Screening for Difficult-to-Express Proteins: Influenza Polymerase as a Case Study
Darren Hart, Ph.D., Team Leader, High-Throughput Protein Technologies, European Molecular Biology Laboratory

17:00-17:30 Tackling Difficult-to-Express Proteins for Structural Studies: A Case Study of Using Library Methods
Chris Meier, Ph.D., Principal Scientist, Crystallography, UCB Celltech

17:45-19:00 INTERACTIVE BREAKOUT DISCUSSION GROUPS Rooms 1A/1B

Mammalian Expression Systems: Options for Producing Difficult-to-Express Proteins
Moderator: Trevor Wilkinson, Ph.D., Head, Protein Sciences, MedImmune Ltd

GPCRS: Overcoming Cell Free Expression Challenges
Moderator: Frank Bernhard, Ph.D., Lab Leader, Institute of Biophysical Chemistry, Goethe University Frankfurt

Saving Time and Costs for Antibody Expression in Mammalian Cells
Moderator: Gerald Caspary, Ph.D., BioTherapeutics Center of Emphasis, Pfizer Discovery Research

E. coli Expression Systems: Making the Right Choices to Enhance Expression
Moderator: Ian Hodgson, Ph.D., Head, Molecular Biology, Research and Development, Aveca Biologics

Antibody Fragments and Scaffolds
Moderator: Sachdev Sidhu, Ph.D., Associate Professor, Banting & Best Department for Medical Research and Department of Molecular Genetics, University of Toronto

Delivery into Tumors
Moderator: K. Dane Wittrup, Ph.D., J.R. Mares Professor, Chemical Engineering & Bioengineering, Massachusetts Institute of Technology

Immunoconjugates for Cancer Therapy

Moderator: Dario Neri, Ph.D., Professor, Chemistry & Applied Biosciences, Institute of Pharmaceutical Sciences, ETH Zürich

Increasing Efficiency of Libraries and Selection
Moderator: Andreas Plückthun, Ph.D., Professor of Biochemistry, University of Zürich

Engineering Approaches to Minimize Aggregation and/or Immunogenicity
Moderator: David Lowe, Ph.D., Head, Display Technology, RI & A, MedImmune, Inc.

19:00-21:00 CHI Networking Dinner Reception Sponsored by BioSita iDNA 2.0 GENEART



TUESDAY, 6 OCTOBER (Afternoon Sessions)

Phage Display of Therapeutic Antibodies

Track Two Room 1B

ANTIBODY FRAGMENTS AND SCAFFOLDS BY PHAGE DISPLAY

14:00-14:05 Chairperson's Remarks

Sachdev Sidhu, Ph.D., Banting & Best Department for Medical Research and Department of Molecular Genetics, University of Toronto

14:05-14:35 Synthetic PDZ Domains for Functional Genomics

Sachdev Sidhu, Ph.D., Banting & Best Department for Medical Research and Department of Molecular Genetics, University of Toronto

14:35-15:05 Engineered Cystine Knot Miniproteins for Diagnostics and Therapy

Harald Kolmar, Ph.D., Department of Biochemistry, Technical University of Darmstadt

IMMUNOCOUPJUGATES FOR CANCER THERAPY: FROM DISCOVERY TO CLINIC

16:00 Chairperson's Remarks

Dario Neri, Ph.D., Professor, Chemistry & Applied Biosciences, Institute of Pharmaceutical Sciences, ETH Zürich

FEATURED PRESENTATION

16:05-16:35 Development of an EphA2 Antibody Drug Conjugate for the Treatment of Cancer

Pamela A. Trail, Ph.D., Vice President, Oncology, MedImmune.

16:35-17:05 Combining Radioimmunotherapy and Antivascular Agents: Using Human Ex Vivo Phage Display Selection to Derive Clinically Relevant Targeting Moieties

Tim Meyer, M.D., Ph.D., Senior Lecturer in Medical Oncology, UCL Cancer Institute, University College London

17:05-17:35 Vascular Tumor Targeting: From the Bench to the Clinic

Dario Neri, Ph.D., Professor, Chemistry & Applied Bio-sciences, Institute of Pharmaceutical Sciences, ETH Zürich

WEDNESDAY, 7 OCTOBER (Morning Sessions)

Improving Protein Expression through Innovation

Track One Room 1A

08:30-09:00 Morning Coffee

09:00-18:00 Exhibit & Poster Viewing - Follow signs to the PEGS Pavilion

TAKING IT TO THE NEXT LEVEL

09:00-09:05 Chairperson's Remarks

09:05-09:35 Thermostabilisation Allows Purified GPCRs to be Used for Drug Discovery
Markus Koglin, Ph.D., Head, Structural Sciences Group, Heptares Therapeutics Limited

09:35-10:05 Production of Complex Biopharmaceuticals with Moss Bioreactors
Eva L. Decker, Ph.D., Researcher, Plant Biotechnology, Faculty of Biology, Freiburg University

10:05-10:20 StarGate®: Sponsored by The Alternative to Gateway®
Thomas Schmidt, Ph.D., COO, IBA GmbH



10:20-10:35 Design Parameters to Control Synthetic Gene Expression Sponsored by DNA2.0
Claes Gustafsson, Vice President, Marketing & Sales, Co-founder, DNA2.0

10:35-11:00 Coffee Break

11:00-11:30 Therapeutic Antibody Production in Mammalian Cells at Lab Scale: Comparison, Adaptation and Implementation of Strategies for Time and Cost Savings
Gerald Casperson, Ph.D., BioTherapeutics Center of Emphasis, Pfizer Discovery Research

11:30-12:00 Achieving Exceptional Yields in CHO and PER.6® Cell Lines Enables Full Pre-Clinical Evaluation of Candidates without the Need for CMO Scale Up

Bram Bout, Ph.D., Chief Executive Officer, Board of Directors, Bioceros BV

12:00-12:30 E. coli Expression Systems: New Tools for Improved Process Development of Biopharmaceuticals

Ian Hodgson, Ph.D., Head, Molecular Biology, Research and Development, Avecia Biologics

12:30-13:45 Lunch for Purchase in the Exhibit Hall and Exhibit & Poster Viewing

Please follow signs to the PEGS Pavilion

13:45 Close of Improving Protein Expression through Innovation conference

Phage Display of Therapeutic Antibodies

Track Two Room 1B

ENGINEERING IMPROVEMENTS IN PROPERTIES

09:00-09:05 Chairperson's Remarks

Gregory A. Weiss, Ph.D., Professor, Department of Chemistry, Molecular Biology & Biochemistry, University of California, Irvine

09:05-09:35 Engineering of Therapeutic Antibodies for Optimal Affinity and Biophysical Properties

Christilyn Graff, Ph.D., Senior Scientist, Protein Engineering, Biogen Idec

09:35-10:05 Thermostability Engineering of a Soluble T-Cell Receptor Using Phage Display
Geir Åge Løset, Ph.D., Post-doctoral Fellow, Molecular Biosciences, University of Oslo

10:05-10:35 The Attana 200 System: Optimizing Expression, Selection and Molecular Characteristics Sponsored by attana

Alexander Kovacs, Ph.D., Global Product Manager, Attana AB

Sponsored by attana

TARGETING TRANSMEMBRANE PROTEINS

11:00-11:30 Phage Display and Engineering of Membrane Proteins

Gregory A. Weiss, Ph.D., Associate Professor, Department of Chemistry, Molecular Biology & Biochemistry, University of California, Irvine

11:30-12:00 Comprehensive Identification of Tumor-Associated Antigens via Isolation of Human Monoclonal Antibodies that May be Therapeutic

Yoshikazu Kurosawa, Ph.D., Director, Professor, Institute for Comprehensive Medical Science, Fujita Health University

12:00-12:30 Apoptosis-Inducing ICAM-1 Antibody has Broad and Potent Anti-Myeloma Activity *In Vivo*

Björn Frendéus, Ph.D., BiolInvent International AB

WEDNESDAY, 7 OCTOBER (Afternoon Sessions)

Next Generation Technologies for Protein Science

Track Three Room 1A

13:00 Conference Registration

ENGINEERING A BETTER EXPRESSION PROCESS

14:05-14:35 Development of a Novel Gateway-based Vector System for Efficient, Multiparallel Protein Expression in *Escherichia coli*, Insect and Mammalian Cells.

Felix Freuler, M.S., Scientific Technical Leader I, Center for Proteomic Chemistry, Novartis Institutes for Biomedical Research (NIBR)

14:35-15:05 New Ways of Establishing Production Cell Lines for Structural Biology
Konrad Büssow, Ph.D., Project Group Leader, Structural Biology, Helmholtz Centre for Infection Research

15:05-15:35 Protein Science Technologies in Industrial Process Development

Philine Dobberthien, Process Science / Downstream Development, Boehringer Ingelheim Pharma GmbH & Co KG

15:35-16:00 Refreshment Break

16:00-16:30 The ExoIN System: A Powerful Tool for Ectopic Protein Expression in Mammalian Cells Sponsored by Trenzyme

Konstantin Matentzoglou, CEO, Trenzyme Biotechnology

16:30-17:00 Affinity Partitioning of Proteins Tagged with Choline-Binding Modules in Aqueous Two-Phase Systems

Isabel Velasco, Ph.D., Project Leader, Research & Development, Biomedal

17:00-17:30 Spotlight Poster Presentations

18:30 BIOTECHNICA Night: Beer Hall, full dinner reception, a live band



Antibodies from Bench to Bedside

Track Four Room 1B

13:00 Conference Registration

OVERCOMING BOTTLENECKS

14:05-14:35 Production of Recombinant Antibody Fragments in Cold Adapted Bacteria: An Alternative to Conventional Microbial Systems

Maria Giuliani, Organic Chemistry and Biochemistry, University of Naples "Federico II"

14:35-15:05 An XBP-1 Dependent Bottle-Neck in Production of IgG Subtype Antibodies in Chemically Defined Serum-Free Chinese Hamster Ovary (CHO) Fed-Batch Processes
Hilto Kaufmann, Ph.D., Boehringer Ingelheim Pharma GmbH & Co. KG, BP Process Science

15:05-15:35 High Yield Expression of Mature, Bioactive TNF-alpha by SUMO-Fusion System
Andreas Hoffmann, Martin Luther University



16:00-16:30 "ADLib®"An Innovative Solution in Antibody Technology Sponsored by Chiome

Hidetaka Seo, Ph.D., Senior Director, Research & Development, Chiome Bioscience Inc.

16:30-17:00 ImmunoRNase Fusion Proteins Targeting Lymphomas

Thomas Schirrmann, Ph.D., Department of Biotechnology, Technische Universität Braunschweig

17:00-17:30 Spotlight Poster Presentations

THURSDAY, 8 OCTOBER (Morning Sessions)

Next Generation Technologies for Protein Science

Track Three
Room 1A

08:30-09:00 Morning Coffee
09:00-18:00 Exhibit & Poster Viewing - Follow signs to the PEGS Pavilion

UTILIZING NEXT GENERATION METHODS AND TECHNOLOGIES

09:00-09:05 Chairperson's Remarks

09:05-09:35 Influencing Transgene Expression via Modifications of the Coding Sequence
Asli Bauer, Ph.D., Senior Scientist, Molecular Microbiology and Gene Therapy, University of Regensburg

09:35-10:05 Interfering Peptides Targeting Extended Protein Interaction Surfaces
Katja Arndt, Ph.D., Principle Investigator, Freiburg Institute for Advanced Studies, School of Life Sciences, University of Freiburg

10:05-11:00 Coffee Break

11:00-11:30 Creating New Enzymes: High-Throughput Protein Expression Optimization of Monomeric TIM Libraries using EnBase™ Technology
Mari Ylianttila, Ph.D., Post Doctoral Fellow, Department of Process and Environmental Engineering, University of Oulu

11:30-12:00 Biosynthesis of Folded Cyclotides inside Living Bacterial Cells: A Convenient Route for Generation of Genetically-Encoded Cyclotide-Based Libraries
Julio Camarero, Ph.D., Associate Professor, Pharmaceutical Sciences and Toxicology, School of Pharmacy, University of Southern California

12:00-12:30 Protein Folding on an Industrial Scale
Andreas Anton, Ph.D., Director of Process Science, Scil Proteins GmbH

12:30-13:45 Lunch for Purchase in the Exhibit Hall and Exhibit & Poster Viewing
- Please follow signs to the PEGS Pavilion



Antibodies from Bench to Bedside

Track Four Room 1B

NEW STRATEGIES FOR EXISTING TECHNOLOGIES

09:00-09:05 Chairperson's Remarks

09:05-09:35 Alternative Strategies to Generate Humanized Antibodies Against Pathogenic Antigens
Andreas W. Stuke, Ph.D., Principal Investigator, Infection Biology, German Primate Centre (DPZ)

09:35-10:05 Presentation and Speaker to be Announced

THURSDAY, 8 OCTOBER (Afternoon Sessions)

Next Generation Technologies for Protein Science

Track Three
Room 1A

APPLICATIONS

14:00-14:05 Chairperson's Remarks

14:05-14:35 Engineering Enzymes for Prodrug Activation Therapy
Kristian Müller, Junior Professor, Department of Biology, University of Freiburg

14:35-15:05 cGMP Production of Therapeutic Antibody-Cytokine Fusion Proteins
Leonardo Giovannini, Ph.D., Head, Protein Production, PHILOGEN S.p.A.

15:05-15:35 Poster Spotlights

16:00-16:30 Going Double-Digit with *Pichia*: High-Level Expression of Human Serum Albumin and Transferrin as Well as Fusion Proteins Driven by AOX1 Promoter Library
Roland Weis, Head, Research & Development, Biotechnology, VTU Technology

16:30-17:00 "Proteome Scale" *in vitro* Antibody Selections: Lessons from Pilot Projects and Use of the Antibody Genes for Functional Genomics
Stefan Dübel, Ph.D., Director, Biotechnology, Technische Universität Braunschweig

17:00-17:30 Automated Parallel Protein Chromatography in a 96-Array Format
Juergen Friedle, Ph.D., Senior Vice President, Marketing, Atoll GmbH

17:30 Close of Next Generation Technologies for Protein Expression conference

Antibodies from Bench to Bedside

Track Four Room 1B

PROGRESS WITH ANTIBODY AND ANTIBODY-LIKE THERAPEUTICS

14:00-14:05 Chairperson's Remarks

14:05-14:35 Development of a Humanised Antibody for the Treatment of Venezuelan Equine Encephalitis Virus
Stuart Perkins, Ph.D., Team Leader, Biomedical Sciences, Defense Science and Technology Laboratory (DSTL)

14:35-15:05 Probodies: Engineering Systemic Specificity into Antibody Therapeutics
James West, Ph.D., Director, Research, CytomX Therapeutics, LLC

15:35-16:00 Refreshment Break

15:05-15:35 Powerful and Fast: DARPin Therapeutics

H. Kaspar Binz, Ph.D., Vice President, Technology, Co-Founder, Molecular Partners AG

16:00-16:30 Translational Research in the Development of Novel Nanobody®-Based Therapies: From Bench to Bedside
Josi Holz, M.D., Chief Medical Officer, Ablynx na

16:30-17:00 Single Domain Antibodies from Llamas and Sharks as Novel Therapeutic Tools in Immunity and Infection

Friedrich Koch-Nolte, Ph.D., Deputy Director, Institute of Immunology, University Medical Center Hamburg-Eppendorf

17:00-17:30 Speaker to be announced

17:30 Close of Antibodies from Bench to Bedside conference



PEGS Europe Poster Presenters

Presenting Monday, October 5th through Thursday, October 8th

BAC BV

201. Sandra Bezemer; Sven Blokland; Thijs de Gunst; Frank Detmers; Pim Hermans; and Hendrik Adams: *Improved Purification of Biotherapeutics Using CaptureSelect® Affinity Ligands*

BOKU University of Natural Resources and Applied Life Sciences Vienna

202. Stefan Bartl; Anton Bauer; Marwa Mostageer; Maximilian Woisetschläger; Bernhard Antes; Karl Ertl; Manuela Kainer; Gertrude Weberhofer; Susanne Wiederkum; Gottfried Himmeler; Geert C. Mudde; Florian Rüker; and Gordana Woźniak-Knopp: *Fc Fragments with Engineered HER2/neu Binding Sites and Antibody Properties*

Centro Nacional de Investigaciones

Oncológicas (CNIO)

203. Sergio Ferreiro; Mº Ángeles Abengózar; Marta Cañamero; Rodrigo Barderas; Ignacio Casal; and Jorge Martínez-Torrecuadrada: *Development of Human Antibodies Targeting Ephrin B2 as Antiangiogenic and Antilymphangiogenic Agents in Human Pancreatic Tumor Xenografts*

CEVEC Pharmaceuticals GmbH

204. Corinna Bialek; Sabine Hertel; Nadine Scholz-Neumann; Ruth Essers; and Gudrun Schieder: *CAP-T Cell Expression System: A Novel Rapid and Versatile Human Cell Expression System for Fast and High Yield Transient Protein Expression*

Defence Science and Technology Laboratory (DSTL)

205. Sarah Goodchild; Lyn O'Brien; John Stevens; Andrew Martin; Robert Philpotts; and Stuart Perkins: *Humanisation of a Murine Monoclonal Antibody with Broad Specificity to Venezuelan Equine Encephalitis Virus Serotypes*

Domainex Ltd.

206. Shirin Khanjani; Kate Maclagan; Laurence Pearl; Paul Driscoll; Mark Johnson; Phillip Bennett; Renos Savva; Trevor Perrior; and Stefanie Reich: *Investigation of Protein-Protein Interactions by Combinatorial Domain Hunting (CDH) - Squared*

Dublin City University

207. Stephen Hearty; Richard O'Kennedy; and Paul Conroy: *Screening for Epitope-Specific Anti-Cardiac Troponin I Monoclonal Antibodies Using a High-Throughput (HT) Surface Plasmon Resonance (SPR)-Based Method*

Evotech AG

208. Annette Poch; Melanie Meiworm; Thomas Hesterkamp; Jan Kahmann; and Christoph Scheich: *Isotope Labelling of Protein Drug Targets for NMR Studies Using Recombinant Expression in E. coli, P. pastoris and Insect Cells*

Georg-Speyer-Haus

209. Maria Hertje; Zhou Mingkui; Sascha Antoni; Michael Humbert; Michael Hust; and Ursula Dietrich: *Identification of HIV-Neutralizing Antibodies and Their Epitopes from Patients Controlling the Infection Without Antiviral Therapy by Phage Display*

210. Xavier Dervillez; Volker Klauken; Joachim Koch; Julia Dietz; Anette Pustowka; Kalle Möbius; Jutta Eichler; and Ralf Duer: *Selection of Therapeutic and Diagnostic*

Peptides for HIV-1 by the Phage Display Technology

German Cancer Research Center
211. Anika Joecker; Andreas Schneeweiss; Stefan Wiemann; Ulrike Korf; and Johanna Sonnag: *Microspot Immunoassays for Biomarker Discovery in Plasma of Breast Cancer Patients*

Isogenica Ltd.

212. Laura Frigotto; Bill Eldridge; Pascale Mathonet; Duncan McGregor; Richard Odegrift; Catherine Stace; Chris Ullman; Kevin FitzGerald; and Neil Cooley: *The Use of CIS Display to Select Therapeutic Peptides and Proteins*

Karl Franzens University Graz

213. Ertugrul-Kaan Çelik; Mohammad Yaser Abajay; Karsten Arends; Elisabeth Grohmann; Walter Keller; and Nikolaus Goessweiner: *Bacterial Conjugation in Gram-Positive Bacteria: Impact of Different Tra Proteins from Plasmid pIP501*

Karolinska Institute

214. Karen Colwill; Stefan Dübel; John McCafferty; Shohei Koide; Tony Kossiakoff; Sigi Liu; Peter Nilsson; Tony Pawson; Alan Sawyer; Sachdev Sidhu; Michael Sundström; Mathias Uhlen; and Susanne Graeslund: *A Coordinated Project to Generate Affinity Reagents to Human Proteins*

Lonza Biologics plc

215. Rebecca Michael; José L. Jiménez; Muku Demir; Andreas Arnell; Jesús Zurdo; and Yvette Stallwood: *Engineering Quality in Biopharmaceuticals: Re-Designing Antibodies to Reduce Aggregation and Increase Productivity*

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GENERAL INFORMATION BIOTECHNICA 2009

DURATION

Tuesday, 6 October 2009 to Thursday, 8 October 2009

OPENING HOURS

9.00 a.m. to 6.00 p.m.

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Hall 8 and 9 in the southern section of the Hannover Exhibition Grounds.
These halls are directly adjacent to the Convention Center.

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GENERAL INFORMATION BIOTECHNICA 2009

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ACCOMMODATION

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Hall 9, booth A63

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On all three event days you have the possibility to use the free Internet Lounge and to obtain current news and trends in the heart of the event on site. The terminals are available for your use during the opening times of the exhibition. Use your world wide web connection and our service – "stay tuned".

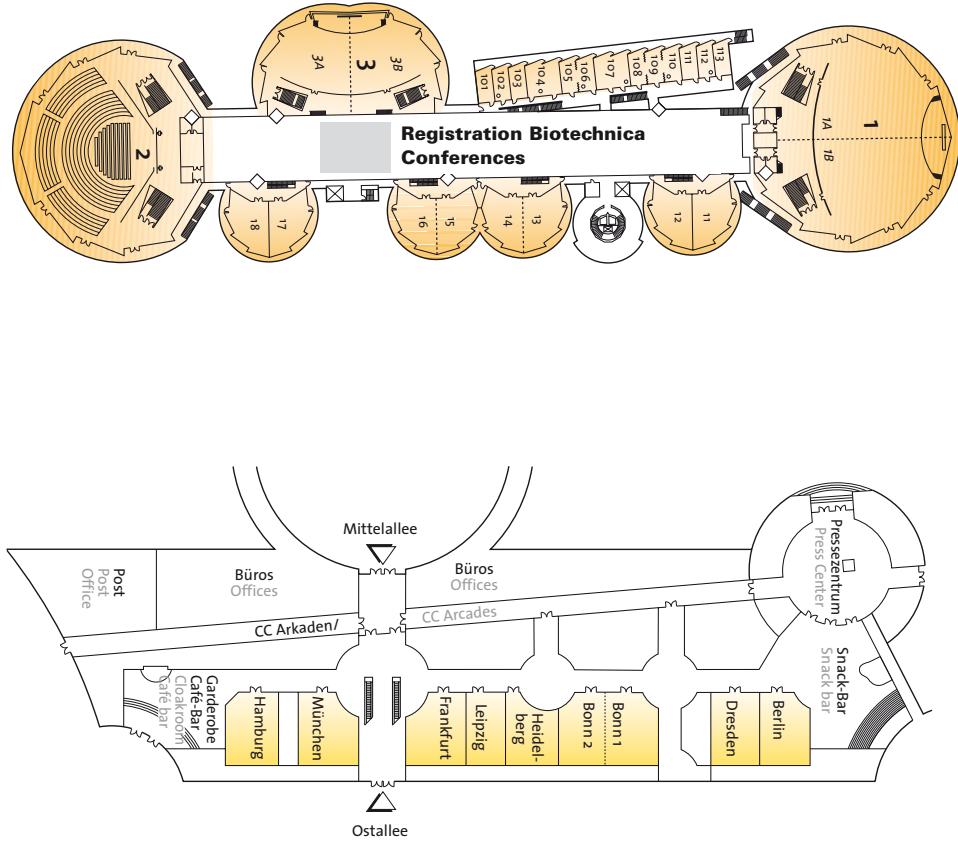
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