

3rd Technology Forum Diagnostics & Bioanalytical Devices

December 9 – 10, 2008 DECHEMA-Haus, Frankfurt am Main

Lecture Programme

Tuesday, December 9, 2008

09:00 Registration

10:30 Opening: H.-M. Biehl, Projektträger Jülich

10:40 **Theranostics: Ways to a better therapy**
W. Fischer-Knuppertz, Roche Diagnostics GmbH, Penzberg/D

Bioanalytical Devices, Software & Bioimaging

11:20 **Lab-on-a-Chip foundry service - speeding up the miniaturization of in vitro diagnostics**
T. Metz, D. Mark, S. Lutz, R. Simon, HSG-IMIT, Villingen-Schwenningen/D; M. Focke, B. Faltin, IMTEK-Universität Freiburg/D; J. Burger, M. Karle, G. Müller, C. Blattert, HSG-IMIT, Villingen-Schwenningen/D; C. Müller, IMTEK - Universität Freiburg/D; S. Messner, H. Reinicke, R. Zengerle, F. von Stetten, HSG-IMIT, Villingen-Schwenningen/D

11:35 **HT-method for producing monoclonal antibodies**
M. Raditsch, EMBLEM Technology Transfer GmbH, Heidelberg/D

11:50 **Sample preparation of bacteria from soil by microfluidic filtration and mixing technique**
J. Claußen, F. von Germar, S. Selzer, M. Sommer, I. Wick, M. Ritzi, IMM, Mainz/D

12:05 **Photothermal Imaging for 3 D surface analysis for dermal drug delivery**
S. Lenhert, Karlsruhe Institute of Technology/D

12:20 **Biological lipid based inks for surface structuring by Dip-Pen Nanolithography**
W. Faubel, R. Körber, Karlsruhe Institute of Technology/D

12:35 Lunch Break

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Molecular Diagnostics & Life Science Research

- 14:15 **Developing assays for the routine detection of metabolic markers**
C. Röhring, T. Koal, Biocrates Life Sciences AG, Innsbruck/A; W. Guggenbichler, Sandoz GmbH, Kundl/A; S.L. Ramsay, CSL Limited, Parkville/AUS; S. Dammeier, Biocrates Life Sciences AG, Innsbruck/A
- 14:30 **Non-protein coding RNAs - an emerging class of biomarkers**
K. Reiche, A.K. Kretschmar, Fraunhofer IZI, Leipzig/D; F. Horn, University of Leipzig/D; J. Hackermüller, Fraunhofer IZI, Leipzig/D
- 14:45 **Mass spectrometric quantification of multiple proteins and its utility in clinical chemistry**
P. Schulz-Knappe, Proteome Sciences GmbH & Co KG, Frankfurt/D
- 15:00 **Introducing the AMODIA MultiFlow®: Easy detection of multiplex amplification products**
F. Schwieger, U. Krause, AMODIA Bioservice GmbH, Braunschweig/D
- 15:15 **High-resolution quantitative online measurement of cell signaling dynamics**
D. Riester, MBM Sciencebridge, Göttingen/D
- 15:30 **Bacterial tumor colonization and its use for tumor imaging modalities**
J. Stritzker, Genelux Corporation and University of Würzburg, Bernried/D; P.J. Hill, University of Nottingham/UK; P. Brader, Memorial Sloan Kettering Cancer Center, New York/USA; S. Weibel, University of Würzburg/D; Y.A. Yu, Genelux Corp, San Diego/USA; M. Scadeng, University of California San Diego/USA; D. Haddad, T. Basse-Lüsebrink, University of Würzburg/D; Y., Fong, R. Blasberg, Memorial Sloan Kettering Cancer Center, New York/USA; P. Jakob, University of Würzburg/D; A.A. Szalay, Genelux Corp and University of Würzburg, Würzburg/D
- 15:45 **Diagnosis of human diseases using the S-sens® K5 biosensor**
T. Gronewold, Biosensor GmbH, Bonn/
- 16:00 Coffee Break

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16:30 **Metabolomics: Impact on Diagnostics**

G. Zurek, Bruker Daltonik GmbH, Bremen/D

M. Spraul, Bruker BioSpin GmbH Rheinstetten/D

17:10 **Strategic trends in Predictive Diagnostics & Personalised Medicine**

O. Golubnitschaja, Secretary General, European Association for Predictive, Preventive and Personalised Medicine (EPMA), Brussels/B

17:50 Get-Together

Wednesday, December 10, 2008

08:30 Registrierung

09:00 Welcome

Molecular Diagnostics & Life Science Research

09:10 **SuperTAG-Digital gene expression profiling: reaping the high-hanging fruits of gene expression**

B. Rotter, P. Winter, GenXPro-GmbH, Frankfurt am Main/D; M.F. Nold, C.A. Dinarello, University of Colorado, Denver/USA

09:25 **Profiling of cancer proteomes with complex antibody microarrays**

C. Schröder, A. Nieters, S. Ruffer, J. Linseisen, A. Jacob, K. Fellenberg, J.D. Hoheisel, Deutsches Krebsforschungszentrum, Heidelberg/D

09:40 **Reflectometric biosensor for point-of-care-diagnostics**

D. Furin, F. Proell, University of Tübingen/D; M. Saemann, J. Thielmann, University of Stuttgart/D; A. Pfaefflin, University Hospital, Tübingen/D; G. Proll, University of Tübingen/D; K. Koerner, H. Richter, C. Harendt, W. Osten, University of Stuttgart/D; E. Schleicher, University Hospital, Tübingen/D; M. Schubert, University of Stuttgart/University of Stuttgart/D; G. Gauglitz, University of Tübingen/D

09:55 **Towards automatic chip-based detection of mRNA**

T. Baier, T. Hansen-Hagge, R. Gransee, K.S. Drese, Institut für Mikrotechnik Mainz GmbH/D; L. Solli, A. Gulliksen, F. Karlsen, Norchip AS, Klokkestua/N; C. Martin, H. Keegan, J. O'Leary, Coombe Women & Infants University Hospital, Dublin/IRL; L. Riegger, IMTEK, Freiburg/D; P. Koltay, Biofluidix GmbH, Freiburg/D; M. Mielnik, I.-R. Johansen, L. Furuberg, SINTEF, Oslo/N

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10:10 **Microfluidic chip-based preparation of complex biological samples**

M. Hausmann, Bio-Rad Laboratories, Munich/D; A. Paulus, Bio-Rad Laboratories, Hercules/USA; A. Posch, Bio-Rad Laboratories, Munich/D; B. Angres, B. Hagmeyer, J. Kentsch, M. Moschallski, M. Stelzle, H. Steuer, D. Stoll, NMI, Reutlingen/D; T. Duong, G. Blankenstein, Boehringer Ingelheim microParts, Dortmund/D

10:25 **Integrated microsystem for analysis of circulating tumour cells**

T. Roeser, Institut für Mikrotechnik Mainz GmbH/D; E. Borgin, Rikshospitalet, Stockholm/N; C. Fermer, Fujirebio Diagnostics, Oslo/S; S. Hauch, AdnaGen AG, Langenhagen/D; O. Henry, Universitat Rovira i Virgili, Tarragona/E; N. Laddach, MRC Holland, Amsterdam/NL; L. Lagae, C. Liu, Interuniversity Microelectronics Center IMEC, Leuven/B; A. Nygren, MRC Holland, Amsterdam/NL; C.K. O'Sullivan, Universitat Rovira i Virgili, Tarragona/E; T. Stakenborg, Interuniversity Microelectronics Center IMEC, Leuven/NL; M. Ritzi, Institut für Mikrotechnik Mainz GmbH/D

10:40 **Integration of an ELISA assay for breast cancer analysis into disposable, microfluidic chips for automatic diagnostics**

F.v. Germar, T. Hansen-Hagge, D. Latta, Institut für Mikrotechnik Mainz GmbH/D; C.K. O'Sullivan, A. Fragoso, Universitat Rovira i Virgili, Tarragona/E; M. Bertschi, Centre Suisse de Electronique et de Microtechnique SA, Neuchatel/CH; L. Cognolato, olivetti-Jet S.p.A, Aosta/I

10:55 **Eppendorf rap-ID(TM): A novel multiplex approach to rapid diagnostics of infectious diseases**

J. Remacle, I. Alexandre, Eppendorf Array Technologies, S.A., Namur/B; C. Henne, S. Bülow, Eppendorf Biochip Systems GmbH, Hamburg/D

11:10 Coffee Break

Clinical Chemistry & Immunochemistry

11:40 **Biomolecule analysis: Some like it hot**

P. Baaske, CeNS LMU Munich/D; S. Duhr, NanoTemper Technologies, Munich/D

11:55 **CARE-MAN - Health-CARE by biosensor Measurement And Networking**

M. Ehni, G. Gauglitz, University of Tübingen/D

12:10 **Raman BioMed - Diagnostics with laser light**

B. Küstner, M. Gellner, M. Schütz, University of Würzburg/D; S Schlücker, University of Osnabrück/D

12:25 **Point-of-care Diagnostics: Experience from the US**

J.H. Nichols, Tufts University, Springfield, MA, USA

13:05 Lunch Break

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- 14:15 **Fast and accurate determination of L-arginine and its methylated metabolites in biological fluids by HPLC-tandem mass spectrometry**
J. Martens-Lobenhoffer, St. Bode-Böger, University of Magdeburg/D
- 14:30 **TGF-beta family signaling biosensors: Smad biosensors**
G. Harms, University of Würzburg/D
- 14:45 **The future of software in IVD**
J. Schacherl, D. Beule, MicroDiscovery GmbH, Berlin/D/
- 15:15 **Point-of-care Diagnostics: State-of-the-art & Perspectives**
P. Luppä, TU München, Germany
- 15:55 End of the conference

Please find more information at: <http://tf2008.lifepartnering.com>

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Under auspices of

- **International Federation of Clinical Chemistry and Laboratory Medicine (IFCC)**
- **World Association of Societies of Pathology & Laboratory Medicine (WASPaLM)**

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- Association of German Biotechnology Companies (VBU)
- European Diagnostic Manufacturers Association (EDMA)
- Verband der Diagnostica-Industrie e.V. (VDGH)

Professional Associations

- Berufsvereinigung der Naturwissenschaftler in der Laboratoriumsmedizin e.V. (BNLD)
- Berufsverband deutscher Laborärzte (BDL)
- Bundesverband deutscher Pathologen e.V. (BV Path)
- Deutsche Vereinte Ges. für klinische Chemie und Laboratoriumsmedizin (DGKL)
- European Federation of Clinical Chemistry and Laboratory Medicine (EFCC)
- International Federation of Clinical Chemistry and Laboratory Medicine (IFCC)
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Scientific Societies

- Dachverband Medizinische Technik Naturwissenschaft Informatik (DVMT)
- DECHEMA e.V. Ges. für Chemische Technik und Biotechnologie
- German Society for Flow Cytometry (DGfZ)
- German Society for Hygiene and Microbiology (DGHM)
- German Society for Transfusion Medicine and Immunohematology (DGTI)
- German Society for Hematology and Oncology (DGHO)
- German Society for Biochemistry and Molecular Biology (GBM)
- Verband Biologie, Biowissenschaften und Biomedizin in Deutschland e.V. (VBIO)
- Association for General and Applied Microbiology (VAAM)

Networks and Political Institutions

- Diagnostics-Net Berlin-Brandenburg
- Enterprise Europe Network (EEN)
- Federal Ministry of Education & Research (BMBF)
- Hessen Biotech
- Project Management Juelich (PtJ)

Patent Agencies

- Ascenion GmbH
- Max-Planck-Innovation GmbH
- TechnologieAllianz e.

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