

Workshop A
Disease and Therapy

Thursday, November 4
09.00 - 10.15 h

Chair: Reinhard Wetzker, Jena
Michael Kracht, Hannover

09.00h

A1 IL-10 gene deficient mice lack TGF-beta/Smad signaling and fail to inhibit NF-kappa B-mediated pro-inflammatory gene expression in intestinal epithelial cells after the colonization with colitogenic *Enterococcus faecalis*
Shkoda, A., Kim, S.C., Ruiz, P.A., Sartor, R.B., Haller, D.
Freising, Chapel Hill/USA

09.15 h

A2 Reduced proliferation and GM-CSF-dependent colony formation of CD34⁺ cells from patients with juvenile myelomonocytic leukemia (JMML) after expression of the Inositol-5'-Phosphatase SHIP-1
Metzner, A., Wegner, W., Garcia-Palma, L., Mayr, G.W., Janka-Schaub, G., Horstmann, M., Fehse, B., Hecher, K., Ortmeier, G., Horn, S., Stocking, C., Jücker, M.
Hamburg

09.30 h

A3 Identification of the anchoring residues of the prosthetic heme moiety of soluble guanylate cyclase
Schmidt, P.M., Alonso-Alija, C., Hahn, M., Wunder, F., Stasch, J.P.
Magdeburg, Wuppertal

09.45 h

A4 Rac1 and PAK1 are upstream of IKK-epsilon and TBK-1 in the viral activation of interferon regulatory factor-3 (IRF-3)
Ehrhardt, C., Kardinal, C., Wurzer, W.J., Wolff, T., Pleschka, S., Planz, O., Ludwig, S.
Düsseldorf, Hannover, Berlin, Giessen, Tübingen

10.00 h

A5 Signaling pathways using phosphorylation site-specific antibodies and ELISA's: Cutting-edge tools for discovery
Jans, E.
Biosource Europe, Nivelles, Belgium

10.15 h **Coffee Break / Sponsors' Exhibition / Poster Preview**

Workshop B

Adhesion, Cell Motility and the Cytoskeleton

Thursday, November 4
10.45 - 12.30 h

Chair: Waldemar Kolanus, Bonn
Frank Entschladen, Witten

10.45 h

B1 Regulation of matrix metalloproteinase 3 by tumor-associated mutant E-cadherin variants

Fuchs, M., Hermannstädter, C., Specht, K., Knyazev, P., Ullrich, A., Rosivatz, E., Busch, R., Hutzler, P., Höfler, H., Luber, B.
München, Martinsried, Neuherberg

11.00 h

B2 Norepinephrine regulates the expression of proteins of the cadherin/catenin complex

Potthoff, S., Entschladen, F., Niggemann, B., Zänker, K.S., Lang, K.
Witten

11.15 h

B3 Microgravity modulates expression of osteopontin, CD44, osteonectin, and tubulin in rat osteoblasts

Kumei, Y., Morita, S., Akiyama, H., Hirano, M., Shimokawa, H., Ohya, K.
Tokyo/Japan

11.30 h

B4 Calpain regulates podosome turnover: implications for dendritic cell motility

Calle, Y., Thraser, A., Jones, G.E.
London/UK

11.45 h

B5 Interleukin-6 is a direct mediator of T-cell migration

Weissenbach, M., Clahsen, T., Weber, C., Spitzer, D., Wirth, D., Vestweber, D., Heinrich, P.C., Schaper, F.
Aachen, Braunschweig, Münster

12.00 h

B6 Presentation by Biotrend GmbH

Biotrend GmbH, Köln

12.15 h

B7 Ser/Thr and Tyr kinase activity profiling using LiquiChip™ technology

Jaeger, C., Sauer, M., Vogel, V., Soehnlein, P., Steinert, K.
Qiagen GmbH, Hilden

12.30 h **Lunch Break / Sponsors' Exhibition / Poster Preview**

Workshop C

Kinases and Phosphatases

Thursday, November 4
13.30 – 17.00 h

Chair: Sid Kar, Pittsburgh
Frank-D. Böhmer, Jena

13.30 h

C1 Keynote: Protein-tyrosine phosphatases in the control of receptor tyrosine kinase signaling
Böhmer, F.D.
Jena

14.00 h

C2 The JNK signaling pathway contributes critical proliferative signals to the transforming potential of the LMP1 oncogene of Epstein-Barr virus
Kieser, A., Schultheiss, U., Kutz, H.
München

14.15 h

C3 Identification of a PKR-like eIF2 alpha kinase from zebrafish containing Z-DNA binding domains
Rothenburg, S., Deigendesch, N., Dittmar, K., Haag, F., Koch-Nolte, F., Lowenhaupt, K., Rich, A.
Hamburg, Provo/USA, Cambridge/USA

14.30 h

C4 Inducible expression of active I κ B-kinase β (IKK β) in acinar cells leads to a phenotype resembling autoimmune pancreatitis
Mihailovic, T., Baumann, B., Wagner, M., Wirth, T., Adler, G., Weber, C.K.
Ulm

14.45 h

C5 Quantitative immunodetection with infrared fluorescence technology
Krings, M.
LI-COR Biosciences GmbH, Bad Homburg

15.00 h **Coffee Break / Sponsors' Exhibition / Poster Preview**

15.30 h

C6 The role of phosphoinositide phosphatases in Akt/PKB signalling
Woscholski, R., Schmid, A. C., Byrne, R., Rosivatz, E., Lossi, N., Mirabelli, M., Wise, H.
London

15.45 h

C7 Cdc25A and ERK interaction: EGFR-independent ERK activation by a protein phosphatase Cdc25A inhibitor, Compound 5

Wang, Z., Wang, M., Carr, B.I.
Pittsburgh/USA

16.00 h

C8 Tumor cell growth inhibition in vitro and in vivo by phenyl maleimide compounds, a new class of anticancer drug

Kar, S., Wang, M., Yao, W., Michejda, C.J., Carr, B.I.
Pittsburgh, Frederick/USA

16.15 h

C9 Chemical proteomic approaches to characterize cellular protein kinase targets in signal transduction analysis and drug development

Daub, H., Gruss, O.J., Brehmer, D., Eickhoff, J., Blencke, S., Missio, A., Keri, G., Müller, S., Cotten, M., Ullrich, A., Wissing, J., Godl, K.
München, Heidelberg, Martinsried, Budapest/Hungary

16.30 h

C10 Analyzing protein activation with phosphorylation specific antibody arrays

Wölfl, S., Ahmad, A., Knoth, S., Pusch, L., Wang, L., Ehricht, R.
Heidelberg, Jena

16.45 h

C11 PhosphoSite®: a comprehensive curated database of physiological phosphorylation sites and associated information

Hornbeck, P., Kornhauser, J., Skrzypek, E., Zhang, B.
Cell Signaling Technology, Beverly/USA

17.00 h **Coffee Break / Sponsors' Exhibition / Poster Preview**

17.30 h

Poster Presentation I

“one minute - one transparency”

Poster PA1 - PD14

Chair: Kerstin Lang, Witten
Oliver Ullrich, Magdeburg

18.15 h **Poster Viewing (PA1 - PD14) / Sponsors' Exhibition**

20.00 h **Dinner**

Workshop D

Chemokines, Cytokines, Growth Factors and their Receptors

Friday, November 5
08.30 – 12.15 h

Chair: Peter C. Heinrich, Aachen
Edith Pfitzner, Frankfurt

08.30 h

D1 Keynote: Principles of IL-6-type cytokine signaling

Heinrich, P.C., Dreuw, A., Giese, B., Haan, S., Herrmann, A., Hermanns, H.M.,
Lehmann, U., Metz, S., Müller-Newen, G., Radtke, S., Schaper, F., Sommer, U.
Aachen

09.00 h

D2 IL-1 β regulates the expression of IL-6-induced SOCS-3 positively and negatively through NF- κ B activation

Yang, X.-P., Albrecht, U., Zakowski, V., Sobota, R.M., Häussinger, D., Heinrich,
P.C., Ludwig, S., Bode, J.G., Schaper, F.
Aachen, Düsseldorf

09.15 h

D3 Structure of the extracellular juxtamembrane region of the erythropoietin receptor: novel constitutively active receptor mutants

Kubatzky, K.F., Liu, W., Smith, S.O., Constantinescu, S.N.
Bruxelles/Belgium, Stony Brook/USA

09.30 h

D4 Constitutive and IL-1-inducible phosphorylation of p65 NF- κ B at serine 536 is mediated by multiple protein kinases including IKKa, IKKb, IKKe, TBK1 and an unknown kinase and couples p65 to TAFII31-mediated IL-8 transcription

Buss, H., Dörrie, A., Schmitz, M.L., Hoffmann, E., Resch, K., Kracht, M.
Hannover, Bern/Switzerland

09.45 h

D5 The first genetic knockout of TRADD defines the functions of TRADD in signaling of LMP1 and TNF-receptor 1 in human B-cells

Schneider, F., Kutz, H., Kaiser, C., Briseno, C., Kieser, A.
München

10.00 h

D6 Easier done than said – MACS molecular research tools & services

Scherer, C.R.
Memorec Biotec GmbH, a Miltenyi Biotec company, Köln

10.15 h **Coffee Break / Sponsors' Exhibition / Poster Preview**

10.45 h

D7 Wnt5a in microbially activated human antigen-presenting cells: Induction, expression and function

Blumenthal, A., Ehlers, S., Lauber, J., Buer, J., Goldmann, T., Heine, H., Brandt, E.,
Reiling, N.
Borstel, Braunschweig

11.00 h

D8 C5a-induced cross-phosphorylation and cross-internalization of CCR5/C5aR heterodimers: A role for GRKs and β -arrestin in heterologous receptor regulation

Hüttenrauch, F., Pollok-Kopp, B., Oppermann, M.
Göttingen

11.15 h

D9 TTP acts downstream of MK2 in the translational regulation of TNF

Hitti, E., Iakovleva, T., Becker, A., Blackshear, P., Radzioch, D., Kotlyarov, A.,
Gaestel, M.
Hannover, Montreal/Canada

11.30 h

D10 BMP-2 in breast carcinoma cells supports tumor formation and ossification

Clement, J., Sanger, J., Hartmann, A., Hoffmann, K., Raida, M., Harris, A.,
Wofl, S., Hoffken, K.
Jena, Bad Berka, Regensburg, Leipzig, Oxford/UK

11.45 h

D11 delta-Opioid receptor activate ERK 1/2 by a receptor tyrosine kinase (EGF receptor) independent pathway

Schulz, R., Wehmeyer, A.
Munchen

12.00 h

D12 Presentation by JPT Peptide Technology GmbH

JPT Peptide Technology GmbH, Berlin

12.15 h **Lunch Break / Sponsors' Exhibition / Poster Preview**

13.15 h **General Assembly of the STS (see page 9 for Agenda)**

Workshop E

Interaction Domains and Signalling Complexes

Friday, November 5
14.30 - 17.30 h

Chair: Fred Schaper, Aachen
Stephan Feller, Oxford

14.30 h

E1 New insights into structure-function relationships in RhoGTPase-interaction with their regulators and effectors

Ahmadian, M.R.
Dortmund

14.45 h

E2 Role of Rho-like proteins of the RhoBTB family in ontogenesis

Berthold, J., Somesh, B., Ramos, S., Aspenstrom, P., Bloch, W., Xiong, Y.,
Rivero, F.
Köln, Uppsala/Sweden, Chapel Hill/USA

15.00 h

E3 Protein-protein interaction analysis with the Ras Recruitment System

Kruse, C., Vasiliev, S., Udelhoven, M., Hanke, S., Hennemann, H.
Bonn

15.15 h

E4 Multi-dimensional complexity of cell signalling – focus on protein complex formation downstream of the T-cell receptor

Feller, S.M., Lewitzky, M., Jones, E.Y., Domart, M.C., Harkiolaki, M.
Oxford

15.30 h

E5 New antibodies for signal transduction

Jacobs, M., Dittmer, T.
Zytomed GmbH, Berlin

15.45 h **Coffee Break / Sponsors' Exhibition / Poster Preview**

16.15 h

E6 PKC-dependent, co-operative gene regulation by glucocorticoids and TGF β , in association with an ETS-family factor, of a model proviral promoter in B lymphocytes

Arope, S.A., Aurrekoetxea-Hernández, K., Buetti, E.
Lausanne/Switzerland

16.30 h

E7 Oxidant treatment of mast cells reveals scaffolding properties of the SH2-containing inositol 5-phosphatase (SHIP)

Elis, W., Gimborn, K., Krystal, G., Huber, M.
Freiburg, Vancouver/Canada

16.45 h

E8 TGF- β regulation of biglycan expression and activation of p38 MAPK involves the generation of reactive oxygen species by NADPH oxidase(s)

Groth, S., Jansen, M., Ruhnke, M., Fändrich, F., Ungefroren, H.
Kiel

17.00 h

E9 Innovative reagents for signal transduction research

Billert, T., Grün, M.
Jena Bioscience GmbH, Jena

17.15 h

E10 Presentation by Raytest Isotopenmessgeräte GmbH

Heinrich, M.
Raytest Isotopenmessgeräte GmbH, Straubenhardt

17.30 h **Coffee Break / Sponsors' Exhibition / Poster Preview**

18.00 h

**Poster Presentation I
"one minute - one transparency"
Poster PE1 - PH10**

**Chair: Gaby-Fleur Böhl, Potsdam-Rehbrücke
Harald Krug, Karlsruhe**

18.45 h **Poster Viewing (PE1 - PH10) / Sponsors' Exhibition**

20.15 h **Dinner**



Workshop F

Chromatin Modification and Transcription

Saturday, November 6
08.30 - 10.30 h

Chair: Edgar Serfling, Würzburg
Guido Posern, Martinsried

08.30 h

F1 Keynote: NFAT and NF- κ B factors - the distant relatives

Serfling, E.
Würzburg

09.00 h

F2 Connecting the actin cytoskeleton and transcriptional control

Posern, G., Miralles, F., Güttler, S., Treisman, R.
Munich, London/UK

09.15 h

F3 NCOA-1/SRC-1 act as an essential coactivator for STAT-proteins recognizing specific interface motifs

Litterst, C.M., Razeto, A., Kliem, S., Lodrini, M., Becker, S., Pfützner, E.
Frankfurt

09.30 h

F4 *Streptococcus pneumoniae* induced p38 MAPK dependent phosphorylation of RelA at the interleukin-8 promotor

Schmeck, B., Zahlten, J., van Laak, V., Moog, K., Hocke, A., Opitz, B., Hoffmann, E., Kracht, M., Hammerschmidt, S., Rosseau, S., Suttorp, N., Hippenstiel, S.
Berlin, Hannover, Würzburg

09.45 h

F5 Presentation by Bio-Rad Laboratories GmbH

Bio-Rad Laboratories GmbH, München

10.00 h **Coffee Break / Sponsors' Exhibition / Poster Preview**



Workshop G

Signalling in Immune Cells

Saturday, November 6
10.30 – 13.00 h

Chair: Burkhart Schraven, Magdeburg
Michael Reth, Freiburg

10.30 h

G1 Keynote: The immune response of *Drosophila*
Hoffmann, J.A.
Strasbourg/France

11.00 h

G2 Keynote: Feedback regulation in lymphocyte signalling
Reth, M.
Freiburg

11.30 h

G3 Grb2 and the non-T cell activation linker NTAL constitute a novel Ca²⁺-regulating signal circuit in B lymphocytes
Stork, B., Engelke, M., Frey, J., Horejsi, V., Hamm-Baarke, A., Schraven, B., Kurosaki, T., Wienands, J.
Göttingen, Bielefeld, Magdeburg, Prague/Czech Republic, Yokohama/Japan

11.45 h

G4 Characterization of the B cell lipid microdomain proteome by 2D gel electrophoresis and mass spectrometry
Mielenz, D., Vettermann, C., Hampel, M., Avramidou, A., Lang, C., Karas, M., Jäck, H.M.
Erlangen, Frankfurt

12.00 h

G5 Activation of mitogen-activated protein kinase and NF-kappa B pathways by the K15 membrane protein of the Kaposi's sarcoma-associated herpesvirus (KSHV)
Brinkmann, M.M., Glenn, M., Rainbow, L., Kieser, A., Schulz, T.F.
Hannover, Munich, Liverpool/UK,

12.15 h

G6 MALT1 is an essential regulator of antigen receptor mediated NF-kappaB induction
Ruland, J., Duncan, G., Mak, T.
München, Toronto/Canada

12.30 h

G7 Measles virus regulates T cell receptor signaling and cytoskeletal proteins in a contact dependent manner
Müller, N., Avota, E., Schneider-Schaulies, S.
Würzburg

12.45 h

G8 Presentation by Perbio Science GmbH

Tremmel, M.
Perbio Science GmbH, Bonn

13.00 h **Farewell Lunch / End of Meeting**

