

**Workshop A**

**Chemokines, Cytokines, Growth Factors and their Receptors**

**Thursday, November 10**  
**09.00 - 12.45 h**

**Chair: Iris Behrmann, Luxembourg**  
**Martin Oppermann, Göttingen**

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09.00h

**A1 Transplantation of thrombopoietin-mimetic peptides into cystine knot microproteins yields high affinity TPO antagonists and agonists**  
Krause, S., Schmoltdt, H.U., Ballmeier, M., Kolmar, H., Friedrich, K.  
Jena, Darmstadt, Hannover, Göttingen

09.15 h

**A2 ReBone morphogenetic protein 3 (BMP-3) modulates the action of BMP-2 by interacting with the BMP type I receptor ALK-3 and heparin**  
Hortschansky, P., Pietraszczyk, M., Mangner, N., Höffken, K., Wölfl, S.,  
Clement, J.H.  
Jena, Heidelberg

09.30 h

**A3 Analysis of activin receptor-like kinase (ALK)1 signal transduction in pancreatic tumor cells: Differential effects on Smad and non-Smad signaling pathways**  
Ungefroren, H., Schniewind, B., Groth, S., Chen, W.-B., Jansen, M., Kalthoff, H.,  
Fändrich, F.  
Kiel

09.45 h

**A4 G Protein-coupled receptor kinases promote phosphorylation and  $\beta$ -arrestin-mediated internalization of CCR5 homo- and hetero-oligomers**  
Hüttenrauch, F., Pollok-Kopp, B., Oppermann, M.  
Göttingen

10.00 h

**A5 Presentation by Biosource: Phosphorylation site-specific immunoassays for monitoring protein kinases *in vitro* and *in vivo***  
Jans, E.  
Biosource Europe S.A., Nivelles/Belgium

10.15 h

**A6 Presentation by LI-COR: A cell-based immunocytochemical assay for monitoring kinase signaling pathways and drug efficacy**  
Chen, H., Kovar, J., Sissons, S., Matter, W., Chadwell, F., Luan, P., Vlahos, C.J.,  
Schutz-Geschwender, A., Olive, D.M., Cox, K., Seack, J.  
LI-COR Biosciences GmbH, Bad Homburg

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

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11.00 h

**A7** **Keynote: Soluble cytokine receptors in control of inflammation and cancer**  
Rose-John, S.  
Kiel

11.30 h

**A8** **Mechanisms of SOCS3 phosphorylation upon IL-6 stimulation: Contributions of Src- and receptor tyrosine kinases**  
Sommer, U., Schmid, C., Sobota, R.M., Lehmann, U., Stevenson, N.J., Johnston, J.A., Schaper, F., Heinrich, P.C., Haan, S.  
Aachen, Belfast/Northern Ireland

11.45 h

**A9** **Hyperosmotic degradation of STAT3 in H4IIE rat hepatoma cells**  
Albrecht, U., Lornejad-Schäfer, M.R., Poppek, D., Gehrman, T., Grune, T., Bode, J.G., Häussinger, D., Schliess, F.  
Düsseldorf

12.00 h

**A10** **A novel and dynamic mechanism of TNF-receptor 1 signaling identified by the genetic disruption of TRADD expression**  
Schneider, F., Briseno, C., Knöfel, T., Kutz, H., Kieser, A.  
München

12.15 h

**A11** **Molecular heterogeneity of colorectal cancer cell signalling**  
Kress, T., Bicknell, D.C., Bodmer, W.F., Feller, S.M.  
Oxford/UK

12.30 h

**A12** **Presentation by Zytomed GmbH: New antibodies for signal transduction**  
Jacobs, M., Dittmer, T.  
Zytomed GmbH, Berlin

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

**Workshop B**  
**Differentiation and Apoptosis**

**Thursday, November 10**  
**13.45 - 15.30 h**

**Chair: Dieter Adam, Kiel**  
**Klaus Schulze-Osthoff, Düsseldorf**

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13.45 h

**B1 Keynote: Apoptosis: no life without death**  
Krammer, P.H.  
Heidelberg

14.15 h

**B2 Translation control signalling pathways in cellular differentiation, proliferation and cancer**  
Müller, C., Jundt, F., Raetzl, N., Wiesenthal, V., Leutz, A., Dörken, B.,  
Calkhoven, C.F.  
Jena, Berlin

14.30 h

**B3 Acid sphingomyelinase and ceramide are critical for TRAIL- induced apoptosis**  
Dumitru, C.A., Dreschers, S., Gulbins, E.  
Essen

14.45 h

**B4 SLy1 contributes to full activation of T lymphocytes**  
Reis, B., Scheikl, T., Mentzen, A.V., Klöter, S., Holzmann, B., Pfeffer, K., Beer, S.  
Düsseldorf, München

15.00 h

**B5 The oncoprotein Tio of Herpesvirus ateles induces NF- $\kappa$ B activity in T-cells**  
Heinemann, S., Biesinger, B., Müller-Fleckenstein, I., Schmidt, M., Fleckenstein, B.,  
Albrecht, J.-C.  
Erlangen

15.15 h

**B6 Presentation by Qiagen GmbH: High-sensitivity detection of cell-signaling molecules using LiquiChip® xMAP™ sandwich immunoassays and RCAT™ signal amplification technology**  
Jaeger, C., Kowalewski, K., Goertz, M., Girg, W., Vogel, V., Soehnlein, P.  
Qiagen GmbH, Hilden

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

**Workshop C**

**Chromatin Modification and Transcription, Cell Cycle Control and Aging**

**Thursday, November 10**  
**16.00 – 17.30 h**

**Chair: Edgar Serfling, Würzburg**  
**Andreas Simm, Halle**

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16.00 h

**C1 Keynote: Poly(ADP-ribosylation), maintenance of genomic stability and aging**  
Bürkle, A.  
Konstanz

16.30 h

**C2 Cell type-specific regulation of RE-1 silencing transcription factor (REST) target genes**  
Hohl, M., Thiel, G.  
Homburg

16.45 h

**C3 DNA damage signaling through the Fanconi/BRCA pathway**  
Kalb, R., Neveling, K., Hoehn, H., Schindler, D.  
Würzburg

17.00 h

**C4 Bcl-x splicing, mitochondrial function and ageing**  
Rohrbach, S., Niemann, B., Holtz, J.  
Halle-Wittenberg

17.15 h

**C5 Presentation by New England Biolabs: Modification-specific antibodies as powerful tools for proteomics based profiling of cell signaling: Identification of biomarkers and pharmacodynamic activity for a c-Kit inhibitor using cell and tissue microarrays**  
Haack, H., Haley, J.D., Sullivan, L.L., Smith, B.\_  
New England Biolabs, Beverly/USA

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

18.00 h

**Poster Presentation I**  
**“one minute - one transparency”**  
**Poster PA1 – PD8**

**Chair:**           **Stephan Feller, Oxford/UK**  
                          **Kerstin Lang, Witten**

18.50 h **Poster Viewing (PA1 – PD8) / Sponsors' Exhibition**

20.15 h **Dinner**

**Workshop D**  
**Signalling in Immune Cells**

**Friday, November 11**  
**08.30 – 15.15 h**

**Chair: Burkhardt Schraven, Magdeburg**  
**Jürgen Wienands, Göttingen**

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08.30 h

**D1 FOR 521 Lecture:**  
**Immune regulation by SLAM-related receptors and SAP family adaptors**  
Veillette, A.  
Montreal/Canada

09.00 h

**D2 FOR 521 Lecture:**  
**Immunological synapse manifestation of intercellular information transfer**  
Valitutti, S.  
Toulouse/France

09.30 h

**D3 The TCR co-exists as multivalent and monovalent complexes on the T Cell surface**  
Schamel, W.W.A., Swamy, M., Siegers, G., Minguet, S., van Santen, H.M.,  
Arechaga, I., Valpuesta, J.M., Alarcon, B.  
Freiburg, Madrid/Spain

09.45 h

**D4 Signaling in anergy: from Fyn to PAG to Ras**  
Smida, M., Schraven, B., Lindquist, J.  
Magdeburg

10.00 h

**D5 Presentation by Perbio Science GmbH: Using electrophoretic mobility shift assay (EMSA) for detecting DNR/RNA-binding proteins by a non-radioactive methode**  
Tremmel, M.  
Perbio Science GmbH, Bonn

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

10.45 h

**D6 FOR 521 Lecture:**  
**Tonic signaling through ITAM receptors in B cells and cancer**  
Monroe, J.  
Philadelphia/USA

11.15 h

**D7 FOR 521 Lecture:**  
**Action mechanisms of PLC $\gamma$  and PKC $\beta$  in B lymphocytes**  
Kurosaki, T.  
Yokohama/Japan

11.45 h

**D8 Single-cell level measurement of the activated transcription factors NFAT and NF- $\kappa$ B in human CD4<sup>+</sup>T cells**  
Podtschaske, M.  
Berlin

12.00 h

**D9 Presentation by Amaxa GmbH: Efficient DNA and siRNA delivery into primary cells and cell lines**  
Gresch, O.  
Amaxa GmbH, Köln

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

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

14.30 h

**D10 Distinct requirements for pre-BCR and BCR signaling**  
Meixlsperger, S., Köhler, F., Jumaa, H.  
Freiburg

14.45 h

**D11 The MAPK phosphatase DUSP1 is an IL-10-induced negative regulator of macrophage activation that prevents lethal endotoxin shock**  
Hammer, M., Mages, J., Dietrich, H., Servatius, A., Howells, N., Cato, A.C.B.,  
Lang, R.  
München, Karlsruhe

15.00 h

**D12 Presentation by BD Biosciences GmbH: BD<sup>TM</sup> Phospho-Protein Profiling – Cell Biology CBA Flex Sets**  
Leclere, N.  
BD Biosciences GmbH, Heidelberg

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

**Workshop E**  
**Signalling Induced by Pathogens**

**Friday, November 11**  
**15.45 - 17.30 h**

**Chair:     Stephan Ludwig, Münster**  
**Michael Naumann, Magdeburg**

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15.45 h

**E1     Keynote: Influence of compartmentalization on TLR-ligand recognition and signalling**  
Bauer, S.  
München

16.15 h

**E2     Intracellular bacteria differentially regulate endothelial cytokine release by mitogen activated protein kinase-dependent histone modification**  
Schmeck, B., Beermann, W., van Laak, V., Zahlten, J., Opitz, B., Witzenth, M., Hocke, A.C., Chakraborty, T., Kracht, M., Rosseau, S., Suttorp, N., Hippenstiel, S.  
Berlin, Giessen, Hannover

16.30 h

**E3     Bivalent function of PI3-kinase during influenza virus replication and host cell defense**  
Ehrhardt, C., Marjuki, H., Wolff, T., Pleschka, S., Ludwig, S.  
Münster, Giessen, Berlin

16.45 h

**E4     Epstein-Barr Virus LMP2A induces Ca<sup>2+</sup> mobilization in B cells and activates transcription of lytic genes**  
Engels, N., Emmerich, C., Yigit, G., Wienands, J.  
Göttingen

17.00 h

**E5     Presentation by Miltenyi Biotech GmbH: MACS technology in signal transduction**  
Schäferkordt, J.  
Miltenyi Biotech GmbH, Bergisch-Gladbach

17.15 h

**E6     Presentation by Acris Antibodies GmbH**  
Acris Antibodies GmbH, Hiddenhausen

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

18.00 h

**Poster Presentation II**  
**“one minute - one transparency”**  
**Poster PD9 – PH4**

**Chair:**           **Gaby-Fleur Böl, Potsdam-Rehbrücke**  
                          **Karlheinz Friedrich, Jena**

18.50 h **Poster Viewing (PD9 – PH4) / Sponsors' Exhibition**

20.15 h **Dinner**

**Workshop F**

**Adhesion, Cell Motility and the Cytoskeleton**

**Saturday, November 12**  
**08.30 - 10.45 h**

**Chair: Frank Entschladen, Witten**  
**Birgit Luber, München**

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08.30 h

**F1 Keynote: Tuning an immune response: Diversity and adaptation of the immunological synapse**

Friedl, P.  
Würzburg

09.00 h

**F2 Locomotor force generation in tumor cell migration**

Bastian, P., Niggemann, B., Zänker, K.S., Entschladen, F.  
Witten

09.15 h

**F3 Integrin mediated cell adhesion - regulation of cytoskeletal proteins**

Ziegler, W.H., Koch, A., Pauling, B., Gingras, A., Emsley, J.  
Leipzig, Braunschweig, Leicester/UK, Nottingham/UK

09.30 h

**F4 Platelet factor 4 induced neutrophil adhesion to endothelial cells requires sequential activation of Ras, Syk, and JNK MAP kinases**

Kasper, B., Brandt, E., Ernst, M., Petersen, F.  
Borstel

09.45 h

**F5 The tumour environment contributes to reduced cell-cell adhesion and promotes Lef/TCF-dependent cell proliferation in pancreatic carcinoma cells**

König, A., Müller, C., Hasel, C., Menke, A.  
Ulm

10.00 h

**F6 p38 $\alpha$  MAPK is required for contact-inhibition**

Faust, D., Dolado, I., Cuadrado, A., Oesch, F., Weiss, C., Nebreda, A.R., Dietrich, C.  
Mainz, Madrid/Spain

10.15 h

**F7 Presentation by Meso Scale Discovery: Multiplexing cytokines and phosphoprotein analyses for high throughput biology**

Enz, C.  
Meso Scale Discovery, Gaithersburg/USA

10.30 h

**F8**     **Presentation by CellSystems GmbH: Fully automated cell separation including labelling: The RoboSep™ Pipetting Robot**  
Balshüsemann, D.E.H., Sigaud, S.  
CellSystems GmbH, St. Katharinen

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

**Workshop G**

**Small Molecules as Signalling Modifiers –Toxins and Ions**

**Saturday, November 12**  
**11.15 – 12.45 h**

**Chair: Klaudia Giehl, Ulm**  
**Harald Krug, Karlsruhe**

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11.15 h

**G1 Keynote: Ion channels as drug targets: overview and implications for T-cell activation**

Hoth, M.  
Homburg

11.45 h

**G2 Grb2 is a negative regulator of Ca<sup>2+</sup> mobilization in B cells**

Engelke, M., Stork, B., Neumann, K., Goldbeck, I., Alers, S., Schraven, B., Kurosaki, T., Wienands, J.  
Göttingen, Magdeburg, Moriguchi/Japan

12.00 h

**G3 Cell hydration dependence of signaling via mTOR**

Richter, L., Häussinger, D., Schliess, F.  
Düsseldorf

12.15 h

**G4 Induction of cardiac fibrosis and advanced glycation endproducts by fly ash particles in vitro**

Gursinsky, T., Ruhs, S., Fries, U., Diabate, S., Krug, H.F., Silber, R.E., Simm, A.  
Halle, Tübingen, Karlsruhe

12.30 h

**G5 Expression of the anti-inflammatory gene heme oxygenase-1 is activated by the NAD(P)H oxidase inhibitor AEBSF via an Akt, p38-dependent signaling pathway in monocytes**

Immenschuh, S., Kietzmann, T., Wijayanti, N.  
Giessen, Kaiserslautern

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