
Poster Presentation I – Poster PA1 - PB9

Wednesday, 28.10.2009, 18:00 – 18:45

**Chair:
Stephan Feller, Oxford**

Immune Signaling

- PA1 *Anergic iTreg generated by tolerogenic DC display enhanced nuclear export of NFATc1 and impaired translocation of NFATc2 after stimulation by anti-CD3 and anti-CD28***
Adler H.S., Orth R., Streck K., Decker P., Weilbacher M., Graulich E., Steinbrink K.
Mainz
- PA2 *The anergic phenotype of human regulatory T cells is supported by low expression of NFATC2, NF-kappaB and AP-1***
Bendfeldt H., Frischbutter S., Benary M., Herzelt H., Baumgrass R.
Berlin
- PA3 *In vivo function of Swiprosin-1/EFhd2***
Brachs S., Bösl M., Jäck H.-M., Mielenz D.
Erlangen, Martinsried
- PA4 *Function of Swiprosin-2 during early B cell development***
Duetting S., Schuh W., Lang C., Boesl M., Jaeck H.-M., Mielenz D.
Erlangen, Martinsried
- PA5 *Multiproteincomplexes that mediate B cell antigen receptor-induced activation of the SH2 domain-containing inositol phosphatase***
Engelke M., Manno B., Li X., Neumann K., Lösing M., Hennemann A., Oellerich T., Urlaub H., Wienands J.
Göttingen
- PA6 *Calcineurin interacts with Bcl-10 to activate NF-κB***
Frischbutter S., Baumgrass R.
Berlin

- PA7 Unravelling the AP-1 dimer repertoire that fine-tunes IL-8 transcription by single chain AP-1 dimers**
Kettner-Buhrow D., Quante T., Kronich P., Wolter S., Bakiri L., Wagner E.F., Kracht M.
Giessen, Hannover, Vienna/Austria
- PA8 Adenosine suppresses SF-induced mast cell functions despite activation of positive signaling processes**
Kuhny M., Grochow G., Horny H.P., Huber M.
Aachen, Freiburg, Ansbach
- PA9 SH2/SH3 interaction partners of Nck in human T cells**
Lettau M., Pieper J., Lengl-Janßen B., Voss M., Gelhaus C., Leippe M., Janssen O.
Kiel
- PA10 Elevated PKB/Akt signals influence iTreg versus Th17 differentiation**
Pierau M., Engelmann S., Reinhold D., Schraven B., Bommhardt U.
Magdeburg
- PA11 Proteome profiling of cytotoxic vesicles from T cell subsets – organelle maturation and subset distribution**
Schmidt H., Gelhaus C., Nebendahl M., Lettau M., Wesch D., Lucius R., Kabelitz D., Janssen O.
Kiel
- PA12 PAG/Cbp down-regulation enhances proximal signaling and induces auxiliary negative feedback loops**
Smida M., Schraven B., Lindquist J.A.
Magdeburg
- PA13 Design of a mutated Dopamine D2L Receptor – Ligand Pair that Mimics the Activation of D2L Wild Type by Dopamine**
Tschammer N., Dörfler M., Hübner H., Gmeiner P.
Erlangen
- PA14 Cyclic AMP-mediated shuffling of ICER controls NFAT-dependent suppression by regulatory T cells**
Vaeth M., Gogishvili T., Bopp T., Berberich-Siebelt F., Schmitt E., Hünig T., Serfling E., Bodor J.
Würzburg, Mainz
- PA15 Mutual influence of Btk and SHIP1 in mast cells: dependence and compensation**
Zorn C.N., Hendriks R.W., Krystal G., Huber M.
Aachen, Rotterdam/The Netherlands, Vancouver/Canada

Growth Factors, Cytokines and Chemokines

- PB1** **Selective estrogen receptor agonists in the regulation of the tight junction protein claudin-5**
Burek M., Roewer N., Förster C.Y.
Würzburg
- PB2** **δ -Opioid receptors stimulate the release of epidermal and insulin-like growth factors in HEK293 cells**
Eisinger D.A., Ammer H.
München
- PB3** **The Role of Wnt/ β -Catenin Signaling Pathway in Developing, Mature, and Regenerating Liver**
Gebhardt R., Hovhannisyan A.S.
Leipzig
- PB4** **Proteomic profiling of RhoH interaction networks in IL3 mediated signalling**
Gündogdu M.S., Simon E.S., Andrews P.C., Heeg K., Kubatzky K.F.
Heidelberg, Ann Arber/USA
- PB5** **Smad7 expression in T lymphocytes drives Th1 responses in experimental autoimmune encephalomyelitis.**
Kleiter I., Song J., Lukas D., Hasan M., Neumann B., Croxford A.L., Hoevelmeyer N., Yogev N., Prinz M., Steinman L., Steinbrecher A., Waisman A.
Mainz, Regensburg, Freiburg, Stanford/USA
- PB6** **TGF β 1 signalling induces N-cadherin upregulation in vascular smooth muscle cells**
Nüssle J., Stracke S., Menke A.
Ulm, Greifswald
- PB7** **Nanoparticle-induced cell signalling events in epithelial cells are mediated by membrane receptors**
Unfried K., Sydlik U., Peuschel H., Weissenberg A., Grether-Beck S., Krutmann J.
Düsseldorf
- PB8** **The role of the N-terminal domain in dimerization and nucleocytoplasmic shuttling of latent STAT3**
Vogt M., Domoszlai T., Kleshchanok D., Lehmann S., Richterling W., Müller-Newen G.
Aachen

PB9 **STAT activation and gene regulation by the atopy-associated human thymic stromal lymphopoietin (TSLP) receptor proceeds via Janus kinases**

Wohlmann A., Sebastian K., Borowski A., Krause S., Friedrich K.H.
Jena

Poster Presentation II – Poster PC1 - PE15

Thursday, 29.10.2009, 18:00 – 18:45

**Chair:
Oliver Ulrich, Zürich**

Migration, Adhesion and Intercellular Signaling

- PC1** **HuR regulates gap junctional intercellular communication**
Ale-Agha N., Galban S., Sobieroy C., Abdelmohsen K., Gorospe M., Sies H., Klotz L.O.
Düsseldorf, Baltimore/USA
- PC2** **The therapeutic for multiple sclerosis “Natalizumab” supports an inflammatory phenotype**
Benkert T., Hartmann E., Rosewald A., Buttman M., Berberich-Siebelt F.
Würzburg
- PC3** **The ADAP/SKAPP55/RIAM-module is crucial for actin remodeling**
Degen J.D., van Lint JL, Wang X.W., Stradal T.E.S., Schraven B.S., Kliche S.K.
Magdeburg, Braunschweig, Leuven/Belgium
- PC4** **The interactions of the rhadinoviral oncoprotein Tip, tyrosine kinase Lck and Stat5 in virus induced T cell differentiation and transformation**
Mazumder E.D., Heck E., Lengenfelder D., Vogel B., Biesinger B., Ensser A.
Erlangen
- PC5** **The Role of Phosphorylation of the Neural Cell Adhesion Molecule (NCAM) During Neurite Outgrowth**
Pollscheid J., Horstkorte R., Bork K.
Halle/Saale
- PC6** **Hypoxia induces tumor cell migration: A possible explanation for the failure of anti-angiogenic therapeutic strategies**
Voss M.J., Moeller M.F., Niggemann B., Zaenker K.S., Entschladen F.
Witten

Pathogens and disease

- PD1 Cytotoxic necrotizing factors differentially activate STAT proteins**
Metzdorf D., Reipschlaeger S., Schmidt G., Kubatzky K.F.
Heidelberg, Freiburg
- PD2 High yield internalization of peptides, proteins and nucleotides into different cells by cell penetrating peptides**
Mußbach F., Pietrucha R., Schäfer B., Reißmann S.
Jena
- PD3 Function and Signal Transduction in Cells of the Immune System are gravi-sensitive**
Thiel C., Paulsen K., Huber K., Arenz A., Sromicki J., Tauber S., Hemmersbach R., Simmet D., Bradacs G., Hilliger A., Engelmann F., Ullrich O.
Zürich/CH, Münster, Magdeburg, Köln, Jena
- PD4 Quantitative ELISA determination of an abundant hemoglobin-derived anti-infective peptide in human placenta**
Zachgo V., Ständker L., Hillemanns P., Forssmann W.G., Hass R.
Hannover

Aging I: Mechanisms and Biomarkers of Aging

- PE1 Modulation of FoxO transcription factors by (-)-Epigallocatechin-3-gallate**
Bartholome A., Sies H., Klotz L.-O.
Düsseldorf
- PE2 Ageing extracellular matrix impairs adhesion and migration of cells**
Bartling B., Rolewska P., Rohrbach S., Silber R.-E., Simm A.
Halle/Saale, Giessen
- PE3 Influence of the circadian clock on IRA mediated changes in Gene Expression in Dermal Fibroblasts**
Benesova T., Pfeiffer R., Macaluso F., Calles C., Fritsche E., Abel J., Krutmann J., Schröder P.
Düsseldorf

- PE4 Infrared-A radiation influences the skin fibroblast transcriptom: mechanisms and consequences for skin aging**
Calles C., Schneider M., Macaluso F., Benesova T., Krutmann J., Schroeder P.
Düsseldorf
- PE5 The imbalanced redox-status in aged endothelial cells is due to dysregulated Thioredoxin-1 and NADPH oxidase 4**
Czypiorski P., Altschmied J., Haendeler J.
Düsseldorf
- PE6 Impact of polycyclic aromatic hydrocarbons on FoxO signaling**
Eckers A., Haarmann-Stemmann T., Abel J., Krutmann J., Klotz L.-O.
Düsseldorf
- PE7 Dysregulation of the antioxidant response in the aged mouse brain**
Glon C., Majora M., Zipper P., Florea A.-M., Schroeder P., Krutmann J.
Düsseldorf
- PE8 Skin aging: a question of keratinocytes or fibroblasts?**
Gundermann S., Stark H.-J., Boukamp P.
Heidelberg
- PE9 The unexpected neuroprotective effect of extracellular cGMP**
Henke N., Albrecht P., Tien M.L., Methner A.
Düsseldorf
- PE10 Reduction of reactive oxygen species in endothelial cells by the newly discovered mitochondrial Shp-2**
Jakob S., Buechner N., Altschmied J., Handeler J.
Düsseldorf
- PE11 Modulation of the expression of plasma micronutrient transporters by FoxO proteins**
Leyendecker M., Eckers A., Klotz L.-O.
Düsseldorf
- PE12 Grainyhead like 3 is a central regulator of endothelial cell migration**
Lukosz M., Altschmied J., Haendeler J.
Düsseldorf
- PE13 Infrared-A radiation induced MMP1 expression is Calcium dependent**
Macaluso F., Calles C., Krutmann J., Schroeder P.
Düsseldorf

- PE14 Negative regulation of the promigratory transcription factor Grainyhead like 3 by Src kinases – implications for aging processes**
Mlynek A., Lukosz M., Güttler C., Altschmied J., Haendeler J.
Düsseldorf
- PE15 Glucocorticoids suppress bone formation by attenuating osteoblast differentiation via the monomeric glucocorticoid receptor**
Rauch A., Baschant U., Lerner U.H., Reichardt H.M., David J.-P., Amling M., Schütz G., Tuckermann J.
Jena, Göttingen, Erlangen, Hamburg, Heidelberg

Poster Presentation III – Poster PE16 - PL5

Friday, 30.10.2009, 18:00 – 18:45

Chair:
Karlheinz Friedrich, Jena

Aging I: Mechanisms and Biomarkers of Aging

- PE16 FoxO isoform expression patterns in human skin fibroblasts undergoing replicative or stress-induced senescence**
Reimann K., Muhr G.M., Blatt T., Klotz L.O.
Düsseldorf, Hamburg
- PE17 Increased levels of mtDNA large scale deletion in human fibroblasts lead to augmented collagen degradation in dermal skin equivalents**
Schuermann B.A., Majora M., Schroeder P., Krutmann J.
Düsseldorf
- PE18 Biological activity of tocopherol metabolites**
Wallert M., Lorkowski S., Mosig S., Rennert K., Funke H., Ristow M.,
Birringer M.
Jena
- PE19 Newly identified interplay of Thioredoxin-1 and F-actin reduces stress fibers in endothelial cells – Implications for vascular aging?**
Zschauer T.C., Kunze K., Altschmied J., Haendeler J.
Düsseldorf

Aging II: DNA Damage Repair and Aging

- PF1 Mice carrying K72W mutation in cytochrome c**
Mufazalov I.A., Kruglov A.A., Lemansky P.A., Kuprash D.V., Vyssokikh MY,
Chernyak B.V., Dolgikh D.A., Zvorykina S.V., Anokhin K.V., Tessarollo L.,
Skulachev V.P., Nedospasov S.A.
Moskau/RUS, Frederick/USA

Tumor Biology

- PG1 BMP-2 expression during tumor progression**
Clement J.H., Steinert S., Bähring F., Sängler J., Hartmann A., Schmidt A.,
Höffken K.
Jena, Bad Berka, Erlangen
- PG2 Cytoprotective signal transduction cascade of the constitutively active G-Protein coupled receptor GPR39**
Dittmer S., Shioda T., Golz S., Methner A.
Düsseldorf, Wuppertal, Charlestown/USA
- PG3 Structural analyses of cancer-driving multi-protein signalling complexes - the divide and conquer approach**
Feller S.M., Harkiolaki M., Tsirka T., Simister P., Lewitzky M., Janning M.,
Schaper F., O'Reilly N., Raabe T.
Oxford, London/UK, Aachen, Würzburg
- PG4 Complex expression control of matrix metalloproteinase MMP-1 in colorectal carcinoma by STAT3 and AP-1**
Gasch J., Müller A., Zugowski C., Lieder F., Tsareva S.A., Moriggl R.,
Friedrich K.H.
Jena, Vienna/Austria
- PG5 Protein-tyrosine phosphatase DEP-1 controls activity of receptor tyrosine kinase FLT3**
Müller J.P., Stopp S., Arora D., Schons J., Masson K., Rönstrand L.,
Böhmer F.D.
Jena, Malmö/Sweden
- PG6 Characterisation of Galectin-8 in pancreatic carcinoma cells**
Porr A., Giehl K.
Ulm

PG7 Dissecting the molecular events in Burkitt's lymphoma – LEF-1 as a signature gene form BL

Ulrich A., von Bonin F., Schrader A., Fleßner K., Klapper W., Spang R., Meyer K., Wienands J., Trümper L., Kube D.
Göttingen, Kiel, Regensburg

PG8 EGF-, PDGF- and SCF-receptor expression in cells derived from malignant human brain tumors

Willkomm S., Bernt A., Kerstein A., Tronnier V., Zechel C.
Lübeck

PG9 Role of CD44 in cell growth and senescence

Zhang Q.H., Minnich K., Herrlich P., Tuckermann J.
Jena

Complex Signaling Systems and Mathematical Models

PI1 A comparative analysis of TCR signaling kinetics in primary human T cells upon focal or soluble stimulation

Kowtharapu B.S., Arndt B., Juehling N., Schraven B., Simeoni L.
Magdeburg

PI2 Visualizing changes in IL-1 signaling network reactions at the level of mRNA

Weber A., Wasiliew P., Dittrich-Breiholz O., Schneider H., Kracht M.
Giessen, Hannover

Pharmacological Intervention and Toxins

PJ1 U0126 and PD0325901, two MEK inhibitors with differential effects on SF-triggered mast cell activation

Marschall J.S., Huber M.
Aachen

PJ2 Connexin 43 expression in heart is regulated by mechanical stretch via activation of ERK and AKT

Salameh A., Karl S., Dhein S., Janousek J.
Leipzig

New Methods

- PK1 Advancement in single cell analysis of cell cycle dependent gene regulation**
Beuerlein K., Mandolini C., Müller H., Kracht M.
Giessen

Miscellaneous

- PL1 Steroid therapy of rheumatoid arthritis depends on dimerization of the glucocorticoid receptor in T cells**
Baschant U., Stöckigt R., Bräuer R., Tuckermann J.P.
Jena
- PL2 Transcriptional programme of contact-inhibition: Identification of FoxM1 as potential mediator**
Faust D., Ittrich C., Al-Butmeh F., Küppers M., Dietrich C.
Mainz, Heidelberg
- PL3 Protection of septic shock by the glucocorticoid receptor in macrophages: Elevation of Sphingosine 1 Phosphate**
Hübner S., Kleyman A., Neumann A., Gräler M., Shelest E.,
Tuckermann J.P.
Jena, Hannover
- PL4 Induction of Suppressor of Cytokine Signaling (SOCS) molecules via Dectin-1 in macrophages and dendritic cells**
Kaschel M.E., Reuschl A.K., Dalpke A.H.
Heidelberg
- PL5 A critical role of the glucocorticoid receptor in myeloid cells in obesity linked insulin resistance**
Rauch A., Ostermay S., Kiehntopf M., Tuckermann J.P.
Jena