

1st Joint Meeting of the Swiss and the German Societies of Cell Biology
32nd Annual Meeting of the German Society for Cell Biology (DGZ)

March 24 – 27, 2009, Konstanz

Tuesday, March 24, 2009

- from 16:00 **Registration**
- 17:45 **Welcome to Constance**
Prof. Dr. Christof R. Hauck (Meeting President)
- 18:00 – 19:30 **Educational Sessions**
(in co-operation with the Graduate School "Chemical Biology" of the University of Konstanz)
- 18:00 – 19:30 **ES1: Funding opportunities for junior scientists and characteristics of a successful grant application**
Dr. Katrin Hahlen (DFG, Bonn, D)
- 18:00 – 19:30 **ES2: Getting top science published in the top journals - insights from editorial decision makers**
Dr. Sowmya Swaminathan (Nature Cell Biology, London, UK)
- 18:00 – 19:30 **ES3: Mehr Mut zur Karriere: Frauen in Führungspositionen in den Biowissenschaften**
Podiumsdiskussion mit Prof. em. Dr. Brigitte Jockusch (Braunschweig, D), Dr. Karin Hollricher (Ulm, D), Prof. Dr. Dagmar Klostermeier (Basel, CH), PD Dr. Elisa May (Konstanz, D)
- 18:00 – 19:30 **ES4: Navigating the Web of Science: Literatur- und Informationssuche im 21. Jhd.**
Dr. Monika May (Universitätsbibliothek Konstanz, D)
- 19:45 **Get Together**

Wednesday, March 25, 2009

- from 8:00 **Registration**
- from 08:30 **Exhibition**
- 08:30 - 9:00 **Official Opening**
Prof. Dr. Dr. h.c. Gerhart von Graevenitz (Rector, University of Konstanz)
Prof. Dr. Francois Karch (President ZMG, University of Geneva, CH)
Prof. Dr. Reinhard Fässler (President DGZ, MPI for Biochemistry, Martinsried, D)
- 09:00 - 12:30 **Symposium A (SA): Regulation of cellular processes by microRNAs**
Chair: Ueli Schibler (Geneva, CH)
- 09:00 – 09:45 *Mechanisms and regulation of mRNA-mediated repression in mammalian cells*
Withold Filipowicz (Basel, CH)
- 09:45 – 10:30 *MicroRNAs in input and output pathways of the mammalian circadian clock*
David Gatfield (Geneva, CH)
- 10:30 – 11:00 Coffee Break
- 11:00 – 11:45 *Importin 8 – a novel regulator of microRNA-guided gene silencing*
Gunter Meister (Munich, D)
- 11:45 – 12:30 *To be announced*
Markus Stoffel (Zürich, CH)

- 09:00 - 12:30 **Symposium B (SB): *Physiology of cellular growth control***
Chair: Christian Frei (Zürich, CH)
- 09:00 – 9:45 *Sensing cell size*
 Sophie Martin (Lausanne, CH)
- 09:45 – 10:30 *Mitochondrial biogenesis during Drosophila larval growth*
 Christian Frei (Zürich, CH)
- 10:30 – 11:00 Coffee Break
- 11:00 – 11:45 *Neuroendocrine circuits controlling metabolism and nutrient balance in Drosophila*
 Michael Pankratz (Bonn, D)
- 11:45 – 12:30 *mTOR in adipose tissue controls whole body growth and metabolism*
 Michael Hall (Basel, CH)
- 12:30 - 14:00 **Lunch Break / Poster Ralley**
- 14:00 – 17:30 **Minisymposium 1 (MS1): *Ubiquitination and the proteasome***
Chairs: Marcus Groettrup (Konstanz, D) & Ivan Dikic (Frankfurt, D)
- 14:00 – 14:45 *Targeting ubiquitin networks*
 Ivan Dikic (Frankfurt, D)
- 14:45 – 15:30 *Signaling through the ubiquitin proteasome pathway*
 Wade Harper (Boston, MA, USA)
- 15:30 – 16:00 Coffee Break
- 16:00 – 16:45 *Regulation of the proteasome via ubiquitin chain dynamics*
 Daniel Finley (Boston, MA, USA)
- 16:45 – 17:05 *Blm10 and Ecm29, two conserved HEAT-like repeat proteins, with possible functions in the control of proteasome activation*
 E. Enenkel (Berlin, D)
- 17:05 – 17:25 *The UBA6-specific ubiquitin-conjugating enzyme USE1 is auto-modified and down-regulated by FAT10 conjugation*
 C. Pelzer (Konstanz, D)
- 14:00 – 17:30 **Minisymposium 2 (MS2): *Nuclear architecture***
Chair: Francois Karch (Geneva, CH)
- 14:00 – 14:45 *Structuring the E. coli chromosome into macrodomains*
 Frédérique Boccard (Gif-sur-Yvette, F)
- 14:45 – 15:30 *Transcription complexes in epigenetics and genome organisation*
 Ana Pombo (London, UK)
- 15:30 – 16:00 Coffee Break
- 16:00 – 16:45 *Telomere clustering in yeast: mechanism and functions*
 Angela Taddei (Paris, F)
- 16:45 – 17:05 *Nuclear pore complexes assembly in interphase of live mammalian cells*
 E. Dultz (Heidelberg, D)
- 17:05 – 17:25 *Involvement of the Major Vault Protein in nuclear pore complex formation*
 C. Hacker (Würzburg, D)

- 14:00 - 17:30 **Minisymposium 3 (MS3): Stem cells**
Chairs: Marcel Leist (Konstanz, D) & Karlheinz Krause (Geneva, CH)
- 14:00 – 14:45 *Neural commitment of embryonic stem cells: molecules, pathways and potential for cell therapy*
Karlheinz Krause (Geneva, CH)
- 14:45 – 15:30 *The California Stem Cell Initiative: Progress & Aspirations*
Alan Trounson (San Francisco, CA, USA)
- 15:30 – 16:00 Coffee Break
- 16:00 – 16:20 *Tendon precursor cells reside in the perivascular niche and express both tendon- and stem cell related markers*
Herbert Tempfer (Salzburg, Austria)
- 16:20 – 16:40 *Generation of functional astrocytes from murine embryonic stem cells*
P.B. Kuegler, M. Leist (Konstanz, D)
- 16:45 – 17:30 *β -cells from embryonic stem cells*
Emmanuel Baetge (San Diego, CA, USA)
- 17:30 **DGZ Award Presentations**
- Walther Flemming Medaille**
Angiogenesis - a team effort coordinated by Notch
Holger Gerhardt (London, UK)
- Binder Innovationspreis**
CDK-Inhibitors - connecting signal transduction and cell cycle control
Ludger Hengst (Innsbruck, A)
- Werner Risau Preis**
The VEGF-C/VEGFR-3 pathway in vascular sprouting and branching
Tuomas Tammela (Helsinki, FI)
- 19:00 **Carl-Zeiss Lecture**
Stem cells, pluripotency and nuclear reprogramming
Rudolf Jaenisch (Whitehead-Institute, Cambridge, MA, USA)

Thursday, March 26, 2009

- from 08:30 **Exhibition**
- 08:30 – 12:00 **Symposium C (SC): Vesicle trafficking**
Chair: Suzanne Pfeffer (Stanford, CA, USA)
- 08:30 – 09:15 *Biogenesis of multivesicular endosomes*
Jean Gruenberg (Geneva, CH)
- 09:15 – 10:00 *Dynamics of the endocytic machinery in living yeast cells*
Marko Kaksonen (Heidelberg, D)
- 10:00 – 10:30 Coffee Break
- 10:30 – 11:15 *Small GTPases and ATPases in vesicle docking at the Golgi*
Suzanne Pfeffer (Stanford, CA)
- 11:15 – 12:00 *SAND-1 is the critical switch in early-to-late endosome transition*
Anne Spang (Basel, CH)

08:30 – 12:00	Symposium D (SD): Cellular microbiology Chair: Pascal Cossart (Paris, F)
08:30 – 09:15	<i>Cytoskeleton rearrangements during Listeria invasion: clathrin and septins new players in the game</i> Pascal Cossart (Paris, F)
09:15 – 10:00	<i>How anthrax toxin signals its way into the cell</i> Gisou van der Goot (Lausanne, CH)
10:00 – 10:30	Coffee Break
10:30 – 11:15	<i>Structural and functional aspects of the Helicobacter pylori cag-Type IV secretion system</i> Rainer Haas (München, D)
11:15 – 12:00	<i>New insights on mammalian cell and pathogen biology revealed by enteropathogenic E.coli (EPEC)</i> Brendan Kenny (Newcastle, UK)
12:00 - 13:30	Lunch Break / Poster Rally
13:30 - 14:00	DGZ Member Meeting
14:00 - 15:00	Tutorials by Industry
14:00 – 15:00	Carl Zeiss Microlmaging GmbH <i>Detecting the 3rd Dimension - 3D Optical Sectioning Techniques</i> Dr. Hubert Bauch, Carl Zeiss Microlmaging GmbH <i>High-end LSM Technology</i> Dr. Annette Bergter, Carl Zeiss Microlmaging GmbH
14:00 – 15:00	Nikon GmbH <i>Simplify your Life Cell Imaging</i> Welcome and short introduction Jörg Kukulies <i>Different applications with cell lines (MDCK, COS7 and HT29) and primary cells (hepatocytes)</i> Roland Nitschke <i>Cells in focus – New standard tools for cell based assays on your microscope</i> <i>Angiogenesis – woundhealing – migration and chemotaxis – apoptosis – gene transfection – flow assays</i> Roman Zantl
14:00 – 15:00	Roche Diagnostics GmbH <i>Determination of cellular events through real time analysis with the xCELLigence system</i> Claudia Fila
15:00 – 18:30	Minisymposium 4 (MS4): Cellular aging Chairs: Alexander Bürkle (KN, D) & Thomas von Zglinicki (Newcastle, UK)
15:00 – 15:45	<i>Genetic modulation of mitochondrial quality control systems: impact on health span</i> Heinz D. Osiewacz (Frankfurt, D)
15:45 – 16:30	<i>A p21-dependent feedback loop between DNA damage response and mitochondrial ROS production stabilises cell senescence</i> Thomas von Zglinicki (Newcastle, UK)
16:30 – 17:00	Coffee Break

- 17:00 – 17:20 *Mitochondrial protein dynamics in young and senescent cells revealed by FRAP*
D. Dikov (Frankfurt, D)
- 17:20 – 17:40 *uPA/uPAR system regulates senescence of human coronary artery smooth muscle cells*
Y. Kiyon (Hannover, D)
- 17:40 – 18:25 *Poly(ADP-ribosyl)ation: From DNA repair facilitator to biomarker of human ageing*
Alexander Bürkle (Konstanz, D)
- 15:00 - 18:30 **Minisymposium 5 (MS5): Chemical Approaches in Cell Biology**
Chair: Thomas U. Mayer (Konstanz, D)
- 15:00 – 15:45 *Probing the role of mitotic kinases using chemical genetics*
Steven S. Taylor (Manchester, UK)
- 15:45 – 16:30 *Intracellular mechanisms of axonal growth and regeneration*
Frank Bradke (München, D)
- 16:30 – 17:00 Coffee Break
- 17:00 – 17:20 *Identification of p-p38 as a novel DAPK interacting partner during TNF α -induced apoptosis in colorectal tumor cells*
B. Khuloud (Magdeburg, D)
- 17:20 – 17:40 *A novel chemical biology approach to identify cell cycle-dependent inducers of apoptosis*
Matthias Schmidt (Konstanz, D)
- 17:40 – 18:25 *Small molecules: versatile tools to study mitosis*
Thomas U. Mayer (Konstanz, D)
- 15:00 - 18:30 **Minisymposium 6 (MS6): Tissue remodelling**
Chair: Wieland Huttner (Dresden, D)
- 15:00 – 15:45 *Stromal - epithelial interactions in wound repair and inflammatory skin disease*
Sabine Werner (Zürich, CH)
- 15:45 – 16:30 *Neurogenesis and the cell biology of neural stem and progenitor cells*
Wieland Huttner (Dresden, D)
- 16:30 – 17:00 Coffee Break
- 17:00 – 17:45 *Distinct connections of FAK to cell survival and directional motility*
David Schlaepfer (La Jolla, CA, USA)
- 17:45 – 18:05 *Local production of phosphoinositides enhances cellular adhesion strength by accelerating talin recruitment to nascent focal adhesions*
K.R. Legate (München, D)
- 18:05 – 18:25 *Integrin $\alpha 5\beta 1$ -mediated increase in contractile force generation leads to enhanced tumor cell invasion, but decreased tumor growth*
C.T. Mierke (Erlangen, D)

Friday, March 27, 2009

- from 09:00 **Exhibition**
- 09:00 – 12:30 **Symposium E (SE): Dynamics of the cytoskeleton**
Chair: Jürgen Wehland (Braunschweig, D)

09:00 – 09:45	<i>Actin polymerising complexes driving plasma membrane protrusions</i> Theresia Stradal (Braunschweig, D)
09:45 – 10:30	<i>Ezrin-based molecular scaffolds in the regulation of the apical aspect of polarized epithelial cells</i> Anthony Bretscher (New York, NY, USA)
10:30 – 11:00	Coffee Break
11:00 – 11:45	<i>Plasticity of the intermediate filament cytoskeleton</i> Rudolf Leube (Aachen, D)
11:45 – 12:30	<i>Regulation of microtubule dynamics by end binding proteins and their partners</i> Anna Akhmanova (Rotterdam, NL)
09:00 – 12:30	Symposium F (SF): Systems biology of phosphatidylinositol-phosphate signalling Chair: Tobias Meyer (Stanford, CA, USA)
09:00 – 9:45	<i>A modular control circuit for collective endothelial migration and sheet integrity</i> Tobias Meyer (Stanford, CA, USA)
09:45 – 10:30	<i>Phosphoinositides in the endocytotic pathway</i> Carsten Schultz (Heidelberg, D)
10:30 – 11:00	Coffee Break
11:00 – 11:45	<i>Genetic dissection of insulin signaling in Drosophila</i> Hugo Stocker (Zürich, CH)
11:45 – 12:30	<i>A role for inositol pyrophosphates in the regulation of nutrient responses</i> John York (Durham, NC, USA)
12:30 – 13:30	Lunch Break
13:30 – 14:30	Tutorials by Industry
13:30 – 14:30	Leica Microsystems <i>Advances in Confocal Microscopy</i> <i>From Nanometers to Nanoseconds: Tunable Imaging, Protein Dynamics and Superresolution with the Leica TCS SP5 Series</i> Constantin Kappel <i>Advanced Microscopy Techniques applied to Biomedical Imaging: BMP/Smad signaling: from Molecule to Organism</i> Gregory Harms
13:30 – 14:30	Olympus Deutschland GmbH <i>New Approaches in Confocal Microscopy, from Routine to High-End-Applications.</i> Peter Zehetmayer
13:30 – 14:30	Thermo Fisher <i>Re-defining cell culture by temperature-responsive Thermo Scientific Nunc UpCell surface</i> Masato Ishiwata
14:30 - 18:00	Minisymposium 7 (MS7): Cell polarity Chair: Kai Simons (Dresden, D)
14:30 – 15:15	<i>Lipid rafts and polarized traffic</i> Kai Simons (Dresden, D)

- 15:15 – 16:00 *The genetic control of cell shape changes*
Maria Leptin (Köln, D)
- 16:00 – 16:30 Coffee Break
- 16:30 – 17:15 *Neuronal polarity: intrinsic predisposition, extrinsic enforcement*
Carlos Dotti (Leuven, B)
- 17:15 – 17:35 *Axon-glia signaling mediates myelin protein synthesis*
R. White (Mainz, D)
- 17:35 – 17:55 *Myosin IXa plays a crucial role in the integrity and differentiation of the ependymal epithelium through regulation of Rho-ROCK signaling*
M. Abouhamed (Münster, D)
- 14:30 - 18:00 **Minisymposium 8 (MS8): Regulation of the cell cycle**
Chair: Ingrid Hoffmann (Heidelberg, D)
- 14:30 – 15:15 *Regulation of human centrosome duplication by Polo-like kinases*
Ingrid Hoffmann (Heidelberg, D)
- 15:15 – 16:00 *Plk1 and the mitotic spindle: from regulation to function*
Anna Santamaria (Martinsried, D)
- 16:00 – 16:30 Coffee Break
- 16:30 – 17:15 *Control of chromosome segregation in meiosis*
Wolfgang Zachariae (Dresden, D)
- 17:15 – 17:35 *CaM kinase II initiates spindle depolymerisation independently of APC/C activation*
O. Gruss (Heidelberg, D)
- 17:35 – 17:55 *Cdk1 negatively regulates midzone localization of the mitotic kinesin Mklp2 and the chromosomal passenger complex*
S. Hummer (Konstanz, D)
- 14:30 - 18:00 **Minisymposium 9 (MS9): The cellular basis of innate immunity**
Chair: Bruno Lemaître (Lausanne, CH)
- 14:30 – 15:15 *Cell biology of dendritic cell activation by microbial products*
Philippe Pierre (Marseille, F)
- 15:15 – 16:00 *Drosophila intestinal response to bacterial infection: Activation of host defense and stem cell proliferation*
Bruno Lemaître (Lausanne, CH)
- 16:00 – 16:30 Coffee Break
- 16:30 – 17:15 *Specific requirements for intracellular killing of bacteria: magnesium and P-type ATPases*
Pierre Cosson (Genf, CH)
- 17:15 – 17:35 *Investigation of host cell factors important for infection with Mycobacterium marinum*
N. Sattler (Genf, CH)
- 17:35 – 17:55 *Function of stabilin-1 in tolerogenic macrophages*
J. Kzhyshkowska (Heidelberg, D)
- 14:30 - 18:00 **Minisymposium 10 (MS10): Label-free microscopic methods**
Chair: Andreas Zumbusch (Konstanz, D)

14:30 – 15:15	<i>Nonlinear microscopy with shaped femtosecond pulses</i> Yaron Silberberg (Rehovot, Israel)
15:15 – 16:00	<i>Labelfree and quantitative chemical analysis of living cells and tissue by coherent Raman scattering microscopy</i> Andreas Volkmer (Stuttgart, D)
16:00 – 16:30	Coffee Break
16:30 – 17:15	<i>Biological applications of CARS microscopy</i> Andreas Zumbusch (Konstanz, D)
17:15 – 17:35	<i>Intracellular manipulation of single cells using ultrashort laser pulses: mitochondria and cytoskeleton</i> S. Przemeck (Hannover, D)
17:35 – 17:55	<i>The NANOWIZARD II – the latest in high performance AFM with true optical integration</i> H. Haschke (Berlin, D)
18:00 – 18:30	Poster Prize Presentation
18:30	Public Lecture/Öffentlicher Abendvortrag: <i>Ist Altern heilbar?</i> Thomas von Zglinicki (Newcastle, UK)
20:00	Farewell Party (Konzil, Downtown Konstanz)