

ELSO 2003 together with the GBM Programme

SATURDAY, SEPTEMBER 20th, 2003

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|-------------|---|--|
| 1500 - 1600 | <p>Press Conference</p> <p>Sub-Group Meetings</p> | <i>Kulturpalast / Room Two</i> |
| 1300 - 1625 | <p>Sub-Group Meeting One: Advances in image analysis for cell biology
 Chairpersons: Jean-Christophe Olivo-Marin (Paris) and Kurt Anderson (Dresden)
 SPONSORED BY CARL ZEISS JENA GMBH</p> | <i>Kulturpalast /Salons
Zwinger-Semper</i> |
| 1300 - 1325 | <p>Kurt Anderson (Dresden)
 High-resolution, high-throughput recognition of cells and structure</p> | |
| 1325 - 1350 | <p>Rainer Heintzmann (Göttingen)
 Fluorescence microscopy with patterned excitation and widefield detection</p> | |
| 1350 - 1415 | <p>Jan Malinsky (Prague)
 Beyond the limit: image restoration of small objects</p> | |
| 1415 - 1435 | <p>Jean-Christophe Olivo-Marin (Paris)
 Movie crunching: from visual observation to biological information</p> | |
| 1535 - 1600 | <p>Wolfgang Tvarusko (Heidelberg)
 Screening of cell development patterns</p> | |
| 1600 - 1625 | <p>Richard Ankerhold (Advanced Imaging, Microscopy Division Carl Zeiss Jena GmbH)
 Confocal laser scanning microscopy for photoactivation, photoconversion and more ... News from the forefront of fluorescent proteins and advances in instrumentation technologies</p> | |
| 1625 - 1650 | <p>Christien Merrifield (Portland)
 Imaging clathrin mediated endocytosis in action</p> | |
| | <p>Sub-Group Meeting Two: Translocation of proteins across membranes (in co-operation with the GBM study group plant biochemistry)
 SPONSORED BY S E B AG, Filiale Zehlendorf (Berlin) and Amersham Biosciences Europe GmbH
 Chairpersons: Jürgen Soll and Enrico Schleiff (München)</p> | <i>Kulturpalast / Studiotheater</i> |
| 1300 - 1330 | <p>Richard Zimmermann (Homburg)
 Novel insights into the mechanism and regulation of protein transport into the mammalian ER</p> | |
| 1330 - 1400 | <p>Matthias Müller (Freiburg)
 Specific features of the biogenesis of inner membrane proteins in <i>E. coli</i></p> | |
| 1400 - 1430 | <p>Enrico Schleiff (München)
 Regulation of the dynamics of protein translocation across chloroplast membranes</p> | |
| 1430 - 1500 | <p>Danja Schünemann (Bochum)
 Targeting of nuclear-encoded proteins to the thylakoid membrane of chloroplasts</p> | |
| 1500 - 1530 | <p>Toshiya Endo (Nagoya)
 co-operation of translocators in mitochondrial protein import</p> | |
| 1530 - 1600 | <p>Roland Beckmann (Berlin)
 Cryo-EM structure of an elongation arrested Ribosome-SRP targeting complex</p> | |
| 1600 - 1630 | <p>Ralf Erdmann (Bochum)
 Early events in peroxisomal protein import</p> | |

Sub-Group Meeting Three: What's new in cellular cholesterol metabolism *Kulturpalast / Room One*

SPONSORED BY Roche Diagnostics Switzerland and GlaxoSmithKline

Chairpersons: Elina Ikonen (Helsinki) and Arnold von Eckardstein (Zürich)

- 1300 - 1330 **Elina Ikonen (Helsinki)**
Intracellular cholesterol transport
- 1330 - 1400 **Arnold von Eckardstein (Zürich)**
Cholesterol efflux from peripheral cells
- 1400 - 1430 **Folkert Kuipers (Groningen)**
Hepatobiliary cholesterol excretion
- 1430 - 1500 **Frank Pfrieger (Strasbourg)**
Role of cholesterol in synapse formation and function
- 1500 - 1530 **Tobias Hartmann (Heidelberg)**
Cholesterol and Alzheimer's disease

Sub-Group Meeting Four: Genomics and proteomics of protein flow in eucaryotic cells (in co-operation with the GBM study group cell biology) *Kulturpalast / Room Four and Five*

Chairperson: Dieter H. Wolf (Stuttgart)

- 1300 - 1330 **Ralf Erdmann (Bochum)**
Peroxisomal proteomics
- 1330 - 1400 **Chris Kaiser (Cambridge, USA)**
Physiological regulation of membrane protein sorting in yeast
- 1400 - 1415 **Bala Medicherla (Stuttgart)**
A genomic screen identifies multiple new gene products involved in ER-associated protein degradation (ERAD)
- 1415 - 1430 **Ernst Jarosch (Berlin)**
Components involved in ER-associated degradation
- 1430 - 1445 **Anna Godi (Santa Maria Imbaro)**
FAPPs: a new family of proteins involved in Golgi-to-plasma membrane transport
- 1445 - 1500 **Vytaute Starkuviene (Heidelberg)**
Functional screening assays to identify new proteins involved in secretory membrane traffic
- 1500 - 1515 **Jeremy Simpson (Heidelberg)**
An integrated strategy to identify new regulators of membrane transport
- 1515 - 1530 **Franck Perez (Paris)**
The recombinant antibody approach in cell biology: 'immunization' with subcellular compartments and use of scFvs as protein conformation sensors in living cells
- 1530 - 1545 **Guennadi A. Khoudoli (Dundee)**
Proteomic analysis of cell cycle-dependent protein interaction with chromatin during DNA replication
- 1545 - 1600 **Ute Schepers (Bonn)**
RNA interference: everything, what one ever wanted to know about silence!

Sub-Group Meeting Five: Phagosome biogenesis and maturation

MPI-CBG

Chairperson: Vojo Deretic (Albuquerque)

- 1300 - 1330 **Sergio Grinstein (Toronto)**
Role of phosphoinositides in phagosome formation and maturation
- 1330 - 1400 **Vojo Deretic (Albuquerque)**
Dynamic view of mycobacterial phagosome maturation - multiple waves of phosphatidylinositol 3-phosphate
- 1400 - 1430 **Gareth Griffiths (Heidelberg)**
From phagosomal lipid-mediated signalling to the killing of pathogenic mycobacteria
- 1430 - 1500 **Craig Roy (New Haven)**
Cellular and immunological studies on *Legionella* phagosome transport
- 1500 - 1530 **Thierry Soldati (London)**
Genetics and proteomics of phagosome maturation in *Dictyostelium*

- Sub-Group Meeting Six: Membrane dynamics at the ER-Golgi interface** *Kulturpalast / Salon Neumarkt*
Chairperson: Rainer Duden (Cambridge, UK)
- 1300 - 1330 **Sean Munro (Cambridge)**
Tethering factors and membrane traffic in the Golgi apparatus
- 1330 - 1400 **Tommy Nilsson (Heidelberg)**
Live cell approaches to investigate the secretory pathway: mind the GAP!
- 1400 - 1430 **Blanche Schwappach (Heidelberg)**
Masking of ER localization signals by 14-3-3 proteins
- 1430 - 1500 **Francis Barr (München) EMBO Young Investigator Lecture**
Rab-GTPase effector complexes at the Golgi apparatus
- 1500 - 1530 **David Stephens (Bristol)**
Cargo sorting on exit from the ER
- 1530 - 1600 **Irina Majoul (Göttingen)**
Retrograde and anterograde cargo: ER entry and exit sites
- Sub-Group Meeting Seven: Membrane continuity and SNARE-dependent membrane fusion along the secretory and endocytic pathways** *MPI-CBG*
Chairpersons: Alexander Mironov (Santa Maria Imbaro) and Koert N.J. Burger (Utrecht)
- 1300 - 1310 **Alexander Mironov (Santa Maria Imbaro)**
Introduction
- 1310 - 1340 **Koert N. J. Burger (Utrecht)**
The use of EM-tomography to reveal membrane continuities along the secretory pathway
- 1340 - 1410 **Dirk Fasshauer (Göttingen)**
Structural insights into the SNARE assembly mechanism
- 1410 - 1440 **Alexander Mironov (Santa Maria Imbaro)**
The role for membrane continuity for intra-Golgi transport
- 1440 - 1510 **Andreas Mayer (Tübingen)**
Mechanism of membrane fusion studied with yeast vacuoles as a model
- 1510 - 1540 **Chris Hawes (Oxford)**
The higher plant ER-Golgi interface
- Sub-Group Meeting Eight: Computational science in cell biology** *MPI for Physics and Complex Systems*
Chairpersons: Petros Koumoutsakos (Zürich) and Ivo Sbalzarini (Zürich)
- 1300 - 1320 **Ivo Sbalzarini (Zürich)**
Problems and solutions on the computational analysis of biological data
- 1325 - 1345 **Roland Eils (Heidelberg)**
From models to experiments and back: finding your way in the nucleus
- 1350 - 1410 **François Nedelec (Heidelberg)**
Studying the mitotic spindle bit by bit
- 1415 - 1435 **Vassily Hatzimanikatis (Evanston)**
A computational framework for the discovery of novel biobased chemicals
- 1440 - 1500 **Ursula Kummer (Heidelberg)**
Integrating experimental and computational results for elucidating the mechanism of neutrophil activation
- 1505 - 1525 **Jens Timmer (Freiburg)**
Remote sensing in cellular signalling by nucleocytoplasmic cycling
- 1530 - 1550 **Petros Koumoutsakos (Zürich)**
Direct numerical simulation of diffusion on the endoplasmic reticulum

	Sub-Group Meeting Nine: Novel aspects of detergents in biomembrane studies	<i>Kulturpalast / Salon Altmarkt</i>
	Chairperson: Felix Goni (Bilbao)	
1300 - 1330	Dov Lichtenberg (Tel Aviv) Temperature-dependence and kinetic aspects of the solubilization of membranes by detergents	
1330 - 1400	Heiko Heerklotz (Basel) Triton hates sphingomyelin	
1400 - 1430	Felix M. Goni (Bilbao) Detergent solubilization of bilayers containing sphingolipids and cholesterol	
1430 - 1500	Rhoderick E. Brown (Austin) Sphingolipid-sterol in-plane packing elasticity and resistance to solubilization by Triton X-100	
1500 - 1530	Dick Hoekstra (Groningen) Some functional aspects of detergent-resistant microdomains in the regulation of membrane traffic in polar cells	
	Sub-Group Meeting Ten: Cell biology of antigen cross-presentation	<i>MTZ One</i>
	Chairperson: Matthew Albert (New York)	
1300 - 1330	Sebastian Amigorena (Paris) Phagoplasmic reticulosomes and cross-presentation in dendritic cells	
1330 - 1400	Monique Kleijmeer (Utrecht) Morphomics of intracellular organelles involved in MHC class I cross-presentation	
1400 - 1430	Philippe Pierre (Marseille) EMBO Young Investigator Lecture DCs, Drips, DALIS, antigen processing in 3D	
1430 - 1500	Nathalie Blachère (Paris) Apoptotic cells deliver 'pre-processed' peptide epitopes to dendritic cells for antigen cross-presentation	
1500 - 1530	Dror Mevorach (Jerusalem) Opsonization of apoptotic cells: the dual role for complement	
1530 - 1600	Christopher Norbury (Hershey) Mechanism of cross priming of viral antigen <i>in vivo</i>	
	Sub-Group Meeting Eleven: How cells handle non-viral vectors and exogenous genes	<i>MTZ Two</i>
	Chairperson: Maria Manunta (London)	
1300 - 1330	Andrew George (London) Challenges and issues in non-viral gene therapy	
1330 - 1400	Arto Urtti (Kuopio) The role of glycosaminoglycans in cellular handling of non-viral gene vectors	
1400 - 1430	Inge Zuhorn (Groningen) Lipoplexes-mediated transfection of cultured cells occurs through clathrin-mediated endocytosis	
1430 - 1500	Maria Manunta (London) Gene delivery by dendrimers operates <i>via</i> a cholesterol-dependent pathway	
1500 - 1530	Alexandra Binnie (Boston/Oxford) Colocalisation and segregation of plasmid transcription in the mammalian nucleus	
1530 - 1600	Andrew Miller (London) Synthetic non-viral vectors for gene therapy: where are we?	
1630 - 1800	Get-Together with wine and beer	<i>Kulturpalast Foyers</i>
1815	Opening of the meeting and opening lecture Sydney Brenner, Nobel Laureate 2002, La Jolla	<i>Kulturpalast / Festsaal</i>

- 0830 - 0930 **Otto Warburg Lecture** *Kulturpalast / Festsaal*
Chairperson: Ulrich Hartl (Martinsried)
Alfred Wittinghofer (Dortmund)
 Signal transduction *via* GTP-binding proteins and its regulation
- Plenary Session One: RNA** *Kulturpalast / Festsaal*
Chairperson: Ulrich Hahn (Hamburg)
 0930 - 1000 **David Baulcombe (Norwich)**
 Genomic imprinting and the role of non-coding RNA
 1000 - 1030 **Bastiaan Tops (Utrecht)**
 RNAi and transposon silencing in *C. elegans*
 1030 - 1100 **Ada Yonath (Rehovot)**
 Ribosomes; cellular machines with brains
- Plenary Session Two: Cytoskeleton** *Kulturpalast / Festsaal*
Chairperson: Kai Simons (Dresden)
 1100- 1130 **Marc Kirschner (Boston)**
 Signalling and actin assembly
- Career Development Committee Meeting** *Kulturpalast / Salon Zwinger*
Policy, Career Structures, Expectations: making a difference to European Science *- Semper*
Chairpersons: Daniela Corda and Carol Featherstone
 1300 - 1330 **Marc Kirschner** (Dept. of Cell Biology, Harvard Medical School)
 on how the ASCB began to tackle policy issues during his Presidency in the early 1990s. Inspiration for ELSO!
 1330 - 1340 **Shuo-Wang Quio** (Institute of Immunology, Rikshospitalet University Hospital, N-0027 Oslo, Norway, representing Eurodoc)
 On the problems faced by graduate students
 1340 - 1350 **Stephan Huelsmann** (Institute of Hydrobiology, Dresden Technical University, representing the Marie Curie Fellowships Association)
 On the problems faced by postdocs
 1350 - 1400 **Helga Eberling** (Directorate General for Research, EC, Brussels) to be confirmed
 On the problems faced by women scientists
 1400 - 1430 **Debate**
Chairperson: Kai Simons (Dresden)
 How ELSO might tackle these issues given our limited resources? Bring along your ideas for simple and small actions ELSO might pursue that would have an important impact
- Carl Zeiss Jena GmbH Workshop** *Kulturpalast / Salon*
 1500 - 1530 **Atsushi Miyawaki (RIKEN-Institute, WAKO, Tokyo, Japan)** *Altmarkt*
 Cruising inside cells - dynamic imaging of cellular function
 1530 - 1545 **Carmen Tepel (Advanced Imaging Microscopy, Carl Zeiss)**
 LSM technology for tomorrow's application
 1545 - 1600 **Eva Simbuerger (Advanced Imaging Microscopy, Carl Zeiss)**
 Multiphotonmicroscopy: Excitation spectra and beyond
 1600 - 1615 **Bernhard Zimmermann (Advanced Imaging Microscopy, Carl Zeiss)**
 Quantitative colocalization analysis using interactive tools
 1615 - 1630 **Hubert Bauch (Carl Zeiss)**
 ApoTome: 3D fluorescence imaging using a structured illumination approach

1300 - 1600 **POSTER SESSIONS**
 Genome analysis and evolution
 Signal transduction I
 Cytoskeleton and cell motility I
 Membranes, lipids and microdomains I
 Intracellular transport from the ER to the cell surface I
 Endocytosis I
 Early development
 Organelles
 Molecular physiology
 Programmed cell death
 Viruses
 Cancer biology

Minisymposia One to Six

Minisymposium One: Cell adhesion and ECM

Chairpersons: Karl Tryggvason (Stockholm) and Gerhard Christofori (Basel)

*Kulturpalast / Salon
 Neumarkt*

1600 - 1630 **Karl Tryggvason (Stockholm)**
 Laminin-5: role in cell adhesion, migration and tumour metastasis
 1630 - 1700 **Gerhard Christofori (Basel)**
 Cell adhesion, tumour invasion, and metastasis
 1700 - 1730 **Walter Birchmeier (Berlin)**
 Molecules in epithelial-mesenchymal transitions
 1730 - 1800 **Gerd Bungartz (Martinsried)**
 Analysis of the role of beta1, beta7 and alpha4 integrins in the murine
 hematopoietic system
 1800 - 1830 **Anna Cattelino (Milano)**
 The conditional inactivation of β -catenin gene in endothelial cells causes a
 defective vascular pattern and increased vascular fragility

Minisymposium Two: Exocytosis

Chairpersons: Gillian Griffiths (Oxford) and Reinhard Jahn (Göttingen)

Kulturpalast / Festsaal

1600 - 1630 **Gillian Griffiths (Oxford)**
 Exocytosis of endocytic organelles
 1630 - 1700 **Reinhard Jahn (Göttingen)**
 Mechanisms of SNARE-mediated exocytosis
 1700 - 1730 **Rafael Fernández-Chacón (Seville) EMBO Young Investigator Lecture**
 Mouse functional genetics of synaptic vesicle proteins
 1730 - 1800 **Emanuele Cocucci (Milano)**
 A new exocytotic organelle; the enlargosome
 1800 - 1830 **Franck Perez (Paris)**
 The recombinant antibody approach in cell biology : "immunization" with sub-
 cellular compartments and use of scFvs as protein conformation sensors in living
 cells

Minisymposium Three: Neuronal fate and connectivity

Chairpersons: Rüdiger Klein (Martinsried) and Christo Goridis (Paris)

*Kulturpalast / Salons
 Zwinger - Semper*

1600 - 1630 **Rüdiger Klein (Martinsried)**
 Wiring neuronal networks during development and plasticity - focus on ephrins
 and Eph receptors
 1630 - 1700 **Christo Goridis (Paris)**
 From neurogenesis to the specification of axonal trajectories: the roles of the
 Phox2 transcription factors
 1700 - 1730 **Johan Ericson (Stockholm)**
 Coordinated temporal and spatial control of motor neuron and serotonergic
 neuron generation in the hindbrain
 1730 - 1800 **Odile Delapeyriere (Marseille)**
 Limb-derived factors co-ordinate motor pool specification
 1800 - 1830 **Jorge Santos Da Silva (Orbassano)**
 RhoA/ROCK regulation of neuritogenesis *via* profilin IIa-mediated control of actin
 stability

- Minisymposium Four: Viruses and host interactions** *Kulturpalast / Studiotheater*
Chairpersons: Urs Greber (Zürich) and Ulrich Koszinowski (München)
- 1600 - 1630 **Urs Greber (Zürich)**
How adenovirus tricks the cell during entry
- 1630 - 1700 **Ulrich Koszinowski (München)**
Biological mapping of functional domains of an essential herpesviral gene interacting with the cellular protein kinase C
- 1700 - 1730 **Roger Everett (Glasgow)**
From the entry of HSV-1 parental genomes into the nucleus to the development of replication and compartments: recruitment of viral and cellular proteins, localisation and dynamics
- 1730 - 1800 **Robin Weiss (London)**
Host cell control of early steps in infection by HIV
- 1800 - 1830 **Mark Marsh (London)**
Assembly of HIV and HCMV on late endosomes
- Minisymposium Five: Kidney function and development** *Kulturpalast / Rooms Four and Five*
Chairpersons: Iain Drummond (Boston) and Gerd Walz (Freiburg)
- 1600 - 1630 **Iain Drummond (Boston)**
Disruption of human cystic disease genes and novel ciliogenic genes in zebrafish results in cystic kidney tubules
- 1630 - 1700 **Gerd Walz (Freiburg)**
Mechanisms of cystogenesis in the kidney
- 1700 - 1730 **Seppo Vainio (Oulu)**
Induction and patterning mechanisms associated with early kidney development
- 1730 - 1800 **Christoph Englert (Würzburg)**
The Six2 transcription factor activates the *GDNF* gene as well as its own promoter
- Minisymposium Six: Organelle diseases** *Kulturpalast / Room One*
Chairpersons: Gerd Schmitz (Regensburg) and Elina Ikonen (Helsinki)
- 1600 - 1630 **Elina Ikonen (Helsinki)**
Defective membrane trafficking in Niemann-Pick type C disease
- 1630 - 1700 **Gerd Schmitz (Regensburg)**
The Golgi-to-plasma membrane cholesterol/phospholipid transport abnormality in ABCA1 mutations
- 1700 - 1730 **Gideon Bach (Jerusalem)**
Mucopolipidosis type IV: a novel protein involved in late stages of the endocytosis process
- 1730 - 1800 **Jürgen Kopitz (Heidelberg)**
Inhibition of the ATP-driven proton pump in RPE lysosomes by the major lipofuscin fluorophore A2-E may contribute to the pathogenesis of age-related macular degeneration
- 1800 - 1830 **Rosanna Piccirillo (Milano)**
Dissecting the sorting pathway of OA1, a G-protein-coupled receptor localized exclusively to intracellular organelles
- 1915 **Public Lecture in German** *Kulturpalast / Festsaal*
Chairperson: Ulrich Hartl (Martinsried)
Günter Blobel (New York)
Zellen und Leben
Mit Vergabe des Kommunikationspreis 2003 an Christina Schröder (Frankfurt)

MONDAY, SEPTEMBER 22nd, 2003

- 0830 - 0930 **Fritz Lipmann Lecture** *Kulturpalast / Festsaal*
Chairperson: Ulrich Hartl (Martinsried)
Wolfram Saenger (Berlin)
Structural aspects of photosynthesis: architectures of photosystems I and II
- Plenary Session Three: Reprogramming the genome** *Kulturpalast / Festsaal*
Chairperson: Francis Stewart (Dresden)
- 0930 - 1000 **Titia de Lange (New York)**
Protection of human chromosome ends
- 1000 - 1030 **Adrian Bird (Edinburgh)**
The biology of methyl-CpG binding proteins
- 1030 - 1100 **Ian Wilmut (Edinburgh)**
Cloning in biology and medicine
- 1100 - 1130 Coffee Break
- Plenary Session Four: From basic research to novel pharmaceuticals** *Kulturpalast / Festsaal*
Chairperson: Ulrich Brandt (Frankfurt)
- 1130 - 1200 **Hartmut Michel (Frankfurt)**
Membrane proteins as targets for drugs in medicine and agriculture
- 1200 - 1230 **Michael Gilman (Cambridge, USA)**
Paralysis by novelty: biology-driven drug discovery in a postgenomics world
- 1230 - 1300 **Herbert Waldmann (Dortmund)**
From protein domains to drug candidates
- 1300 - 1600 **POSTER SESSION - Abstracts received after deadline**
- ELMI Workshop: Cool tools for imaging** *Kulturpalast / Salon Altmarkt*
- 1215 - 1245 **Marius Messerli, Bitplane**
Modeling biological objects in 3D and 4D microscopic images
- 1245 - 1315 **Kees van Bavel, Bio-Rad**
Multi-photon imaging and beyond... new opportunities in multi-photon microscopy
- 1315 - 15.00 **Leica Microsystems Workshop on Live Cell Imaging and Analytical Biology** *Kulturpalast / Room 2*
- Timo Zimmermann (EMBL, Heidelberg)**
GFP-Applications on the Leica AS MDW
- Oliver Eickelberg (University School of Medicine, Giessen)**
Visualizing Mad Smads
- Martin Hoppe (Leica Microsystems)**
Leica Confocal News
- 1400 - 1530 **Podium session with Dr Raffaele Liberali, Director of the European Commission's Human Factor, Mobility and Marie Curie Activities** *Kulturpalast / Salon Neumarkt*
Put your questions to him about career support in FP6
- 1500 - 1630 **Till Photonics Workshop** *Kulturpalast / Salon Altmarkt*
Live cell real-time TIRF'

Minisymposia Seven to Twelve

Minisymposium Seven: Stem cells

Kulturpalast / Festsaal

Chairpersons: Anna M. Wobus (Gatersleben) and Hans Schöler (Kennett Square)

1600 - 1630 **Anna M. Wobus (Gatersleben)**

Comparison of embryonic stem cell and somatic progenitor cell differentiation

1630 - 1700 **Hans Schöler (Kennett Square)**

Derivation of oocytes from mouse embryonic stem cells

1700 - 1730 **Albrecht Müller (Würzburg)**

Heimatopoietic activity is induced in neural stem cells by chromatin-modifying agents

1730 - 1800 **Vania Broccoli (Milano)**

Stable neural progenitor cell lines derived from mouse ES cells: *in vitro* characterization and *in vivo* applications

1800 - 1830 **Alessio Attardo (Dresden)**

Neuron-generating divisions of neuroepithelial cells during early mammalian neurogenesis

Minisymposium Eight: Actin

Kulturpalast / Salon
Neumarkt

Chairpersons: Tony Bretscher (Ithaca) and Paul Mangeat (Montpellier)

1600 - 1630 **Tony Bretscher (Ithaca)**

Regulation and assembly of actin cables in yeast: tracks for myosin-V-dependent transport of membrane-bound compartments in the secretory pathway

1630 - 1700 **Paul Mangeat (Montpellier)**

Dynamics of Ezrin targeting to the plasma membrane

1700 - 1730 **François Payre (Toulouse)**

D-moesin controls actin dynamics during *Drosophila* development

1730 - 1800 **Annette Müller-Taubenberger (Martinsried)**

Actin dynamics in highly motile cells

1800 - 1830 **Frank van Leeuwen (Nijmegen)**

Regulation of cell adhesion and spreading by a novel Trp channel-related kinase

Minisymposium Nine: Signalling and development

Kulturpalast / Salons
Zwinger - Semper

Chairpersons: Christof Niehrs (Heidelberg) and Irma Thesleff (Helsinki)

1600 - 1630 **Christof Niehrs (Heidelberg)**

Kremens are novel dickkopf receptors that regulate WNT/beta-catenin signalling

1630 - 1700 **Irma Thesleff (Helsinki)**

Molecular signalling regulating the development of ectodermal organs

1700 - 1730 **Konrad Basler (Zürich)**

Patterning and growth in *Drosophila* limb development

1730 - 1800 **Elke Ober (San Francisco)**

The Liverplus Screen - A forward genetic approach to understanding endodermal organ formation in zebrafish

1800 - 1830 **Maya Elbert (New York)**

The WNT signalling protein dishevelled functions with PAR-1 in the organization of polarized domains in epithelial cells

	Minisymposium Ten: Membrane proteins and lipids	<i>Kulturpalast / Studiotheater</i>
	Chairpersons: Werner Kühlbrandt (Frankfurt) and Debbie Brown (Stony Brook)	
1600 - 1630	Werner Kühlbrandt (Frankfurt) Structure and function of membrane transport proteins by electron cryo-microscopy	
1630 - 1700	Debbie Brown (Stony Brook) Targeting of proteins to lipid rafts	
1700 - 1730	Wieland Huttner (Dresden) Prominin: from cholesterol-based microdomains and plasma membrane protrusions to development and disease	
1730 - 1800	Declan Doyle (Oxford) The crystal structure of KirBac1.1 in the closed state	
1800 - 1830	Christian Ungermann (Heidelberg) EMBO Young Investigator Lecture Isolation and characterization of the vacuolar palmitoyl acyltransferase required for fusion-dependent palmitoylation	
	Minisymposium Eleven: Nuclear organization and trafficking	<i>Kulturpalast / Rooms Four and Five</i>
	Chairpersons: Ivan Raska (Prague) and Susan Gasser (Geneva)	
1600 - 1630	Ivan Raska (Prague) Analysis of replication sites in HeLa cells during S-phase	
1630 - 1700	Susan Gasser (Geneva) Multicolour live imaging of yeast chromosomes: telomere attachments and nuclear function	
1700 - 1730	Jan Ellenberg (Heidelberg) Chromosome dynamics and positioning in live mammalian cells	
1730 - 1800	David Stanek (Dresden) The U4/U6 snRNP in complex with U4/U6 snRNP annealing factor SART3/p110 in Cajal bodies	
1800 - 1830	Christian Betz (Homburg) Cir1p, a novel yeast Ring/PHD finger protein, links the alcohol stress response to regulation of RNA polymerase II	
	Minisymposium Twelve: Metabolic and DNA profiling	<i>Kulturpalast / Room One</i>
	Chairpersons: Lothar Willmitzer (Golm) and Anne Marie Poustka (Heidelberg)	
1600 - 1630	Lothar Willmitzer (Golm) Integration of metabolic and transcript profiling data – approaches towards system biology	
1630 - 1700	Anne Marie Poustka (Heidelberg) Gene expression profiling in cancer	
1700 - 1730	Olli Kallioniemi (Turku) Biochip technologies for systems biology and translational research on cancer	
1730 - 1800	Ulrike Korf (Heidelberg) Protein microarrays as tools to identify novel protein-protein interactions	
1800 - 1830	Christian Kaltschmidt (Witten) Microarray analysis of tumour necrosis factor alpha-induced gene expression in U373 human glioblastoma cells	
1900 - 2030	Special Session - Cinema of the Cell	<i>Kulturpalast / Festsaal</i>

TUESDAY, SEPTEMBER 23rd, 2003

- 0800 - 0900 **GBM Award Lectures** *Kulturpalast / Festsaal*
Ernst Schering Research Foundation Habilitation Prize
Karl Lohmann Prize
Altana PhD Prize
- 0900 - 0930 **ELSO2003 Early Career Award Lecture** *Kulturpalast / Festsaal*
Award sponsored by Urban and Fischer Verlag and Carl Zeiss Jena GmbH
Jürgen Knoblich (Vienna)
Dare to be different: asymmetric cell division in the *Drosophila* nervous system
- Plenary Session Five: Molecular medicine** *Kulturpalast / Festsaal*
Chairperson: Ralf Pettersson (Stockholm)
- 0930 - 1000 **Adriano Aguzzi (Zürich)**
Peripheral prion pathogenesis: a journey through gut, spleen and nerves
- 1000 - 1030 **Qais Al-Awqati (New York)**
Terminal differentiation of epithelial cells: the hensin pathway
- 1030 - 1100 Coffee Break
- Plenary Session Six: Membrane traffic** *Kulturpalast / Festsaal*
Chairperson: Daniela Corda (Santa Maria Imbaro)
- 1100 - 1130 **Felix Wieland (Heidelberg)**
Formation of a transport vesicle: players and rules
- 1130 - 1200 **Linda Hicke (Evanston)**
Regulation of endocytosis by mono-ubiquitin
- ELMI Workshop: Cool tools for imaging** *Kulturpalast / Salon*
Peter Messler, Olympus Biosystems *Altmarkt*
cell^{AR}: Use CFP/GFP/YFP simultaneously on a wide-field fluorescence microscope for FRET or other applications
- 1245 - 1315 **Jason Swedlow, University of Dundee**
Deconvolution microscopy: Why bother?
- 1300 - 1600 **POSTER SESSIONS**
Morphogenesis and differentiation I
Protein folding and degradation
Molecular microbiology
Bioinformatics / biological computing
Mitochondria, chloroplasts and peroxisomes
Cell adhesion
Molecular machines
Organization and function of the nervous system
Cells and tissues
Cell division and asymmetry
Molecular medicine
Parasitology
Novel approaches and methods
In and out of the nucleus
Glycobiology
Other issues

	<p>Symposium des Arbeitskreis Innovationstransfer der GBM: Innovations- und Technologietransfer an deutschen Hochschulen Symposium in German, open to everyone</p>	Kulturpalast / Room 1
1300 - 1330	Chairperson: Stefan Müllner (Köln)	
1330 - 1400	Michael Braun (Wiesbaden) Building the bridge between research and markets - from technology transfer to value creation	
1400 - 1430	Ann De Beuckelaer (Dresden) In Biotech Saxony matters!	
1430 - 1500	Frank Schröder-Oeynhausen (Münster) From nanotechnologies to business opportunities	
1500 - 1530	Otmar Schöller (Frankfurt) The role of universities in the innovation process	
1400 - 1530	Open-access publishing meeting Free for all: three quite different ways to open access to the scientific literature <i>Few scientists would dispute that the scientific literature should be freely available to all through the internet. But what is the best way to go about this? This meeting will showcase some of the current models and give you a chance to ask questions and make your opinion heard</i> Introduction Carol Featherstone The argument for open-access to the scientific literature Three models of open-access publishing Theo Bloom or Peter Newmark from BioMed Central The commercial model Vivian Siegel or Mark Patterson from Public Library of Science The non-profit model David Prosser of SPARC Europe Self archiving Debate Reactions from European molecular cell biologists – approximately 30 minutes discussion from the floor on the pros and cons of these various approaches	Kulturpalast / Salon Neumarkt
1400 - 1500	Career Support by the DFG - What life scientists need to know Dorette Breitzkreuz and Catherine Kistner	Kulturpalast / Salon Altmarkt
	Minisymposia Thirteen to Eighteen	
	Minisymposium Thirteen: Cell migration and metastasis Chairpersons: Alan Hall (London) and Nancy Hynes (Basel)	Kulturpalast / Salons Zwinger - Semper
1600 - 1630	Alan Hall (London) The regulation of directed cell migration	
1630 - 1700	Nancy Hynes (Basel) MEMO, A novel mediator of Neu/ErbB2-dependent breast cancer cell motility	
1700 - 1730	Paolo Comoglio (Candiolo) Invasive growth, a genetic programme triggered by hypoxia	
1730 - 1800	Natalie Prigozhina (La Jolla) Protein kinase D function at the <i>trans</i> -Golgi network is required for fibroblast locomotion	
1800 - 1830	M. Jolanta Redowicz (Warsaw) <i>Amoeba proteus</i> Rho/Rho-dependent kinase affects cell locomotion and actomyosin II activity	

Minisymposium Fourteen: Signalling and endocytosis
Chairpersons: Susanna Cotecchia (Lausanne) and Marino Zerial (Dresden)

Kulturpalast / Festsaal

- 1600 - 1630 **Susanna Cotecchia (Lausanne)**
The role of the AP2 complex in endocytosis of G-protein-coupled receptors
- 1630 - 1700 **Marino Zerial (Dresden)**
Rab domains in endosome organization and signalling
- 1700 - 1730 **Jean-Paul Vincent (London)**
Degradation of Wingless in *Drosophila* epithelia
- 1730 - 1800 **Mark McNiven (Rochester)**
The dynamin-cortactin-N-WASp complex mediates the sequestration and internalization of receptor tyrosine kinases into lipid rafts independently of clathrin pits or caveolae
- 1800 - 1830 **Steffen Scholpp (Dresden)**
Endocytosis controls propagation of Fgf8 during zebrafish embryogenesis

Minisymposium Fifteen: Morphogenesis in plants
Chairpersons: Ben Scheres (Utrecht) and Detlef Weigel (Tübingen)

Kulturpalast / Room One

- 1600 - 1630 **Ben Scheres (Utrecht)**
Cell fate and cell division in the *Arabidopsis* root
- 1630 - 1700 **Detlef Weigel (Tübingen)**
Transcriptional responses during floral induction
- 1700 - 1730 **Ottoline Leyser (York)**
The hormonal control of shoot branching in *Arabidopsis*
- 1730 - 1800 **Hanno Wolters (Tübingen)**
Investigation of the spatiotemporal requirements of GNOM function during *Arabidopsis* embryogenesis

Minisymposium Sixteen: Functions of the endoplasmic reticulum
Chairpersons: Roberto Sitia (Milano) and Tom Rapoport (Boston)

*Kulturpalast / Salon
Neumarkt*

- 1600 - 1630 **Roberto Sitia (Milano)**
Biogenesis of the endoplasmic reticulum and control of Ig secretion during B lymphocyte-plasma cell differentiation
- 1630 - 1700 **Tom Rapoport (Boston)**
Retro-translocation of proteins from the ER to the cytosol
- 1700 - 1730 **David Ron (New York)**
Mechanisms involved in adaptation to client protein load in the endoplasmic reticulum
- 1730 - 1800 **Thomas Simmen (Portland)**
PACS-2, a novel sorting connector of the early secretory pathway, controls ER homeostasis and the onset of apoptosis
- 1800 - 1830 **Lionel Terzi (Geneva)**
Mechanism of the elongation arrest function of the mammalian signal recognition particle
- 1830 - 1900 **Thomas Dierks (Göttingen)**
Post-translational generation of the catalytic Ca-formylglycine residue in sulphatases by the ER-localized formylglycine-generating enzyme

	Minisymposium Seventeen: Host-pathogen interactions	<i>Kulturpalast / Rooms Four and Five</i>
	Chairpersons: Bruno Lemaitre (Gif-sur-Yvette) and Peter Sebo (Prague)	
1600 - 1630	Bruno Lemaitre (Gif-sur-Yvette) EMBO Young Investigator Lecture Genetic and genomic approaches of the <i>Drosophila</i> immune response	
1630 - 1700	Peter Sebo (Prague) Deciphering the capacity of <i>Bordetella</i> adenylate cyclase to cross cellular membranes and to deliver passenger antigens for induction of T-cell immune responses	
1700 - 1730	Arturo Zychlinsky (Berlin) Neutrophils release extracellular fibres	
1730 - 1800	Nils Gauthier (Nice) The channel formed by <i>Helicobacter pylori</i> VacA toxin triggers its pinocytosis	
1800 - 1830	Ursula Rescher (Münster) Clustering of raft components and recruitment of annexin 2 by enteropathogenic <i>E. coli</i> (EPEC)	
	Minisymposium Eighteen: Regulation of cell proliferation	<i>Kulturpalast / Studiotheater</i>
	Chairpersons: Ana Carrera (Madrid) and Andrea Musacchio (Milano)	
1600 - 1630	Ana Carrera (Madrid) The role of phosphatidylinositol 3-kinase in the control of cell division	
1630 - 1700	Andrea Musacchio (Milano) EMBO Young Investigator Lecture Evidence that the Mad2 receptor at the kinetochore is the spindle checkpoint complex Mad1-Mad2	
1700 - 1730	Kim Nasmyth (Vienna) Together or apart? Who tells sisters what to do?	
1730 - 1800	Federico Calegari (Dresden) RNA interference of genes that lengthen the cell cycle inhibits neurogenesis	
1800 - 1830	Elena Knatko (Dundee) The role of INCENP phosphorylation in regulating the activity of aurora B kinase	
1830 - 1900	Patrick Cramer (München) EMBO Young Investigator Lecture Structure of mRNA transcription complexes	
1930 - 2330	Social Get-Together (only with pre-paid tickets) Food and drinks (free until 22.30) and disco music	<i>Finanzministerium</i>

- Plenary Session Seven: Genome evolution** *Kulturpalast / Festsaal*
Chairperson: Daniel Louvard (Paris)
- 0900 - 0930 **Richard Durbin (Cambridge, UK)**
 Large genome sequence comparisons
- 0930 - 1000 **Evan Eichler (Cleveland)**
 Recent duplications and the evolution of the human genome
- 1000 - 1030 **Wolfgang Enard (Leipzig)**
 Human uniqueness and molecular evolution – the chimp's perspective
- 1030 - 1100 Coffee Break
- 1100 - 1500 **POSTER SESSIONS**
 Signal transduction II
 Cytoskeleton and cell motility II
 Membranes, lipids and microdomains II
 Intracellular transport from the ER to the cell surface II
 Endocytosis II
 Environmental signals and plant development
 Nucleus and gene expression
 Cell cycle and growth control
 Extracellular matrix
 Morphogenesis and differentiation II
- 1215 - 1245 **ELMI Workshop: Cool tools for imaging** *Kulturpalast / Salon
Altmarkt*
Maria Athelougou, Definiens
 Automated high-content analysis of bio-medical images
- Minisymposia Nineteen to Twenty-four**
- Minisymposium Nineteen: Motors** *Kulturpalast /Salons
Zwinger - Semper*
Chairperson: Matthias Rief (München)
- 1500 - 1530 **Jonathan Howard (Dresden)**
 Microtubule depolymerization by the kinesin-related protein MCAK
- 1530 - 1600 **Matthias Rief (München)**
 Single molecule mechanics of molecular motors
- 1600 - 1630 **Evelyne Coudrier (Paris)**
 A new actomyosin motility assay for organelles: regulation of movements on actin filaments by more than one Rab protein
- 1630 - 1700 **Anna Akhmanova (Rotterdam)**
 Mammalian Bicaudal D is a recruiting factor for the dynein–dynactin motor complex
- 1700 - 1730 **Masanori Mishima (Vienna)**
 ZEN-4/CeMKLP1 has motor activity that is negatively regulated by cyclin B-cdk1 phosphorylation
- Minisymposium Twenty: Cell division and asymmetry** *Kulturpalast / Festsaal*
Chairpersons: Andrea Brand (Cambridge, UK) and Evelyn Houlston (Villefranche-sur-Mer)
- 1500 - 1530 **Andrea Brand (Cambridge, UK)**
 Asymmetric cell division in the embryonic CNS
- 1530 - 1600 **Evelyn Houlston (Villefranche-sur-Mer)**
 Establishment of embryonic polarity with respect to nuclear position in amphibian and cnidarian eggs
- 1600 - 1630 **Monica Gotta (Zürich)**
C. elegans homologues of AG3/PINS control spindle position
- 1630 - 1700 **Yves Barral (Zürich) EMBO Young Investigator Lecture**
 Asymmetric Cdk1 activity on spindle poles drives spindle positioning in yeast
- 1700 - 1730 **Stephanie Miserey-Lenkei (Paris)**
 Impairing a Rab6A/GAPCenA/Rabkinesin-6 pathway arrests cells in metaphase

	Minisymposium Twenty-one: Epigenetics	<i>Kulturpalast / Room One</i>
	Chairpersons: Denise Barlow (Salzburg) and Renato Paro (Heidelberg)	
1500 - 1530	Denise Barlow (Salzburg) The role of non-coding RNAs in genomic imprinting	
1530 - 1600	Renato Paro (Heidelberg) Chromosomal elements conferring transcriptional memory	
1600 - 1630	Robert Martienssen (New York) Transposable elements, RNA interference and the origin of heterochromatin	
1630 - 1700	Joost Martens (Vienna) Histone lysine methylation patterns at repeat regions of the mouse genome	
1700 - 1730	Assen Roguev (Dresden) Links between histone lysine methylation and transcriptional elongation	
	Minisymposium Twenty-two: Optical imaging and spectroscopy	<i>Kulturpalast / Studiotheater</i>
	Chairpersons: Gerhard Schütz (Linz) and Petra Schwille (Dresden)	
1500 - 1530	Gerhard Schütz (Linz) Ultra-sensitive microscopy to image molecular rearrangements during T-cell stimulation	
1530 - 1600	Petra Schwille (Dresden) Confocal spectroscopy and beyond: on the look-out for single molecules in cells and microchips	
1600 - 1630	Taekjip Ha (Urbana) Probing structural dynamics of nucleic acids using single molecule FRET	
1630 - 1700	Kota Miura (Heidelberg) Analysis of cell and organelle motility using a gradient method II	
1700 - 1730	Joel Beaudouin (Heidelberg) Kinetic modelling of molecular dynamics in the nucleus	
	Minisymposium Twenty-three: Proteomics	<i>Kulturpalast / Rooms Four and Five</i>
	Chairpersons: Andrej Shevchenko (Dresden) and Julio Celis (Copenhagen)	
1500 - 1530	Pavel Gromov (Copenhagen) Proteomic strategies in cancer	
1530 - 1600	Juri Rappsilber (Milan) Proteomic analysis of the human spliceosome	
1600 - 1630	Adam Liska (Dresden) Identification of <i>Xenopus laevis</i> microtubule-associated proteins by mass spectrometry and homology DB searching	
1630 - 1700	Kai Johnsson (Lausanne) Protein chemistry in living cells	
	Minisymposium Twenty-four: Centrosomes / spindle pole bodies	<i>Kulturpalast / Salon Neumarkt</i>
	Chairpersons: Elmar Schiebel (Manchester) and Michel Bornens (Paris)	
1500 - 1530	Elmar Schiebel (Manchester) Asymmetric loading of the Kar9-Bim1-Cdc28 complex onto the old SPB	
1530 - 1600	Michel Bornens (Paris) The mammalian centrosome in cell polarity and cell migration	
1600 - 1630	Keith Gull (Manchester) Biochemistry and functions of flagellar basal bodies/centrioles as revealed by studies in trypanosomes	
1630 - 1700	Ralph Gräf (München) Centrosomal microtubule plus-end tracking proteins and their role in <i>Dictyostelium</i> cytoskeletal dynamics	
1700 - 1730	Iain Hagan (Manchester) Triggering cell division in fission yeast: the spindle pole and protein kinases	
1730 - 1800	Michael Knop (Heidelberg) Membrane targeting and initiation of prospore membrane formation at the spindle pole bodies in yeast meiosis	
1815	Concluding remarks and presentation of ELSO / GBM Poster Prizes	<i>Kulturpalast / Festsaal</i>