



**Molecular
Life Sciences**

International Symposium of the
German Society for Biochemistry
and Molecular Biology (GBM)



Molecular Life Sciences 2011

lively & molecular

Program

25. - 28.9.2011

Campus Westend, Goethe University
Frankfurt am Main, Germany

www.molecular-life-sciences.de



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Liebe Tagungsgäste,

die Lebenswissenschaften (Life Sciences) und die Biotechnologie zählen zu den Schlüsseltechnologien des 21. Jahrhunderts und werden dieses entscheidend prägen. Moderne Biowissenschaften tragen zur Lösung medizinischer und technischer Fragen bei, haben weit reichende Auswirkungen auf die gesundheitliche Versorgung der Bürger, die Beherrschung von Umweltgefahren und unser gesamtes gesellschaftliches Leben.

Gerne habe ich deshalb die Schirmherrschaft für die Veranstaltung der Gesellschaft für Biochemie und Molekularbiologie (GBM) hier in Frankfurt übernommen. Ich heiße Sie am Wissenschaftsstandort Hessen herzlich willkommen, der bei der Forschung in diesem Bereich bundesweit zu den führenden Ländern gehört.

Forschungsverbünde wie das Exzellenzcluster Makromolekulare Komplexe im Bereich Biochemie und Lebenswissenschaften in Frankfurt oder das im Rahmen des Forschungsförderungsprogramms des Landes, LOEWE, geförderte

Zentrum für Synthetische Mikrobiologie (SYNMIKRO) in Marburg stehen für die Vernetzung exzellenter Spitzenforschung an hessischen Hochschulen und außeruniversitären Forschungseinrichtungen. Darüber hinaus verdeutlicht die Beteiligung aller drei hochschulmedizinischen Standorte Frankfurt, Marburg und Gießen an den Deutschen Zentren der Gesundheitsforschung die Leistungsfähigkeit unserer Wissenschaftler. Auch hier hat die LOEWE-Förderung, wie beim LOEWE-Zentrum zur Erforschung von Erkrankungen der Lunge und der Atemwege (UGMLC) in Gießen sowie sechs weiteren LOEWE-Projekten, entscheidende Impulse für die erfolgreiche Entwicklung gegeben. Mit dem LOEWE-Programm in Höhe von 410 Millionen Euro allein in dieser Legislaturperiode setzt die Landesregierung ein bundesweit viel beachtetes Zeichen für Forschung und Entwicklung in Hessen. Die Wirtschaft profitiert über den Technologietransfer von der großen Innovationskraft hessischer Wissenschaftseinrichtungen.

Ich wünsche allen Teilnehmern, den vielen Gästen aus dem In- und Ausland, den Experten sowie dem wissenschaftlichen Nachwuchs einen spannenden fachlichen Austausch, Gelegenheit zu vielen anregenden Kontakten und einen angenehmen Aufenthalt hier bei uns in Hessen – den Schülern ganz besonderen Spaß für ihren parallel stattfindenden Kongress.

Ihre

Eva Kühne-Hörmann

Hessische Ministerin für Wissenschaft und Kunst

What's your Theme?

- >> RNA Biology
- >> Protein Structure and Dynamics
- >> Membrane Biology
- >> Cell Signaling
- >> Chemical and Systems Biology
- >> Molecular Medicine
- >> Science and Beyond
- >> Prizes and Awards
- >> Short Talks and Posters



Dear Guests,

Modern Life Sciences are at home in Frankfurt/Main. Formerly known as the “Pharmacy of the World”, the Rhine-Main area harbors the leading biotech sites in Germany.

Today, Frankfurt's highlights include the fields of biomedical and pharmaceutical research and development as well as industrial biotechnology. Situated at the Riedberg Campus of Goethe University, the Innovation Center of Biotechnology brings participants from quite different spheres together: finance, pharmaceutical research and biotechnology.

These economical activities are embedded within a strong educational and research framework at the universities from the region. Indeed, resulting from the federal Excellence Initiative, two interdisciplinary research clusters focused on the *Cardiopulmonary System and Macromolecular Complexes* have been implemented at Goethe University. These are

quite magnetic for top scientists from all over the world. Furthermore, for the first time in 2011, Goethe University is listed within the 100 best universities in the world, according to the well-respected Shanghai-Ranking, which evaluates all high-performance research universities worldwide. Thus, Goethe University places sixth in Germany and 22nd throughout Europe.

The goal of the Society for Biochemistry and Molecular Biology (GBM) is to promote research and teaching. As Germany's largest professional bioscientific society, GBM organizes scientific meetings and conferences, among which is the traditional international Fall Symposium, *Molecular Life Sciences*. This meeting covers all hot topics in the fields of molecular biosciences and has a clearly more international orientation than in previous years.

In addition, the symposium intends to actively integrate young scientific talent – *i.e.* students, doctoral candidates, postdoctoral researchers and young group leaders – into the scientific discourse.

I hope that this meeting inspires you and leads to new ideas for your research!

A handwritten signature in blue ink that reads "Werner Müller-Esterl". The signature is written in a cursive style.

Werner Müller-Esterl
President of the Goethe-University Frankfurt

Program at a Glance | Sunday, 25.9.2011

16:00 – 16:30	Opening	H1/2
16:30 – 17:30	Public Lecture (in German) Werner W. Franke	H1/2
17:45 – 18:45	Communication Award of the GBM Finn Rieken	H1/2
	Karl Lohmann Prize Alexander Bartelt	H1/2
	PhD Prize of the GBM Felix Tritschler	H1/2
18:45 – 19:45	Warburg Medal & Lecture (sponsored by QIAGEN) Peter Walter	H1/2
20:00 – 22:00	Get-together at the Posters by Beer, Wine & Snacks	1. & 3. Floor
20:00 – 21:00	Meet the Prof Eric Gouaux	H7
22:00	After Poster Party	3. Floor

This symbol marks parallel events.



Monday, 26.9.2011

09:00 – 11:00	Plenary Lectures Guido Kroemer, Dieter Söll, Susan Taylor	H1/2
11:30 – 12:30	Parallel Plenaries Christine Holt, Judith Frydman Poul Nissen, Jue Chen	H1 H2
13:00 – 14:30	Lunch Sessions “Science and Beyond”	
	Open Access	H7
	Women’s Science Network	H8
	Life Science Journalism	H9
	Utopia Science – Perspectives for the Next Generation of Scientists	H10
	Meet the Prof - John Walker	H11
	Students for Students: Diploma, Master & Bachelor Symposium	H12
13:00 – 15:00	Poster Session	1., 2. & 3. Floor
15:00 – 17:00	Pecha Kucha - Parallel Short Talks	
	Signaling, Chemical & Systems Biology	H8
	RNA, DNA & Molecular Medicine	H10
	Protein Structure, Dynamics & Membrane	H12
17:30 – 19:30	Study Group Sessions	
	Life Cell Imaging Rainer Pepperkok, Brian Bacskai, Melanie Meyer-Luehmann, Jan Huisken, Markus Hirsch, Jörg Brühmann	H7
	Plant Equals Energy Peter Eastmond, Olaf Kruse, Staffan Persson, Anja Hemschemeier	H8
	Biomembranes Bert Poolman, Christine Ziegler, Sin Urban, Thomas Becker, Nadja Hellmann	H9
	Systems Bioinformatics Sarah Teichmann, Daniel Promislow, Thomas Dandekar, Björn Junker	H10
	The Prokaryotic Immune System CRISPR-Cas Emmanuelle Charpentier, Edze Westra, Lennart Randau, Wolfgang Hess, Jutta Brendel	H12
18:00 – 19:30	Meet the Prof - Peter Walter	H11
19:30 – 22:00	Get-together at the Posters	1. & 3. Floor
20:00 – 21:00	Junior GBM Meeting	H7

Tuesday, 27.9.2011

09:00 – 11:00	Plenary Lectures	
	Mark A. Lemmon, Arthur Horwich, Tobias Meyer	H1/2
11:30 – 12:30	Parallel Plenaries	
	Keiji Tanaka, Gisbert Schneider	H1
	John Walker, Thomas Langer	H2
13:00 – 14:30	Lunch Sessions “Science and Beyond”	
	Career Forum	H4
	Funding Opportunities for Postdocs Going Abroad	H12
	Meet the Prof - Tom Rapoport	H13
13:00 – 15:00	Poster Session	1., 2. & 3. Floor
13:00 – 13:45	Advanced Light Microscopy - Nikon	H8
14:00 – 14:45	Advanced Light Microscopy - Carl Zeiss	H7
14:00 – 14:45	Meeting of the Study Group Molecular Neurobiology	H8
13:00 – 15:00	New Study Group “Redox Biology”	H9
	Johannes Herrmann, Tobias Dick, Jan Riemer, Lars Ellgaard, Frauke Melchior, Stefan Dröse, Karl-Josef Dietz	
15:00 – 17:00	Study Group Sessions	
	Mechanisms of Cellular Quality Control Scott Emr, Ramanujan Hegde, Axel Mogk, Martin van der Laan	H3
	Molecular Mechanisms of Disease Thomas Jentsch, Rob Harvey, Till Marquardt, Beate Winner	H4
	Bioanalytics Kris Gevaert, Martin Larsen, Andreas Pich, Stefanie Kellner, Florian Heigwer	H7
	Neurosignaling in Health and Disease David Kaplan, Jens Schwamborn, Mohammad Reza Ahmadian, Carlos Ibanez, Raphael Stoll, Simon Ebbinghaus	H8
	Chemical Biology: Chemical Probes to Dissect Biological Processes Kai Johnsson, Hidde Ploegh, Carsten Schultz, Dirk Schwarzer, Jan Eickhoff, Alexander Neuhaus, Marika Midon	H12
17:30 – 18:00	Young Investigator Award of the Schering Foundation - Gunter Meister	H1/2
18:00 – 19:00	Lipman Lecture - Eric Gouaux	H1/2
19:30 – 24:00	Dinner & More	Casino

Wednesday, 28.9.2011

09:00 – 11:00	Study Group Sessions	
	Energy for Life and Health Carlos Moraes, Volker Zickermann, Thomas Meier, Oliver Lenz, Ernst Bamberg	H7
	Structure, Dynamics and Interaction of Proteins Richard Kriwacki, Macarena Marin, Hendrik Schäfer, Don Lamb, Christoph Baldauf, Zbigniew Warkocki	H8
	Oncogene Signaling John Hancock, Yoel Kloog, Ilka Oerlecke, Stephanie Bremer, Jiezhong Chen, Johanna Bles	H9
	Glycoproteomics Urs Lewandrowski, Ronald Schnaar, Isabelle Breloy, Sebastian Peter Galuska, Manuel Maestre Reyna	H10
	Structure-based and Computational Protein Design Tanja Kortemme, Birte Höcker, Donald Hilvert	H11
11:30 – 11:40	Poster Awards	H1/2
11:40 – 12:40	Perspective Closing Lecture Tom Rapoport	H1/2
12:40 – 13:00	Final Remarks	H1/2



Program | Sunday, 25.9.2011

15:00	Start of Registration	Foyer
16:00	Opening Irmgard Sinning , President of the GBM Ingmar Jung , State Secretary (Hessian Ministry of Science and Art) Renate Sterzel , Town Councilor Frankfurt Werner Müller-Esterl , President of the Goethe University Robert Tampé , Meeting Director	H1/2
16:30	Public Lecture (in German) Chair: M. Schubert-Zsilavec (Vice-President, Goethe University) Werner W. Franke , Heidelberg (DE) Staatlich geförderte kriminelle Handlungen an jungen Menschen (Doping im Sport): Die Rollen von „Ärzten“ und Wissenschaftlern	H1/2
17:30	Break	
17:45	Kommunikationspreis der GBM (Communication Award) Chair: W. Nellen / I. Sinning Finn Rieken , München (DE)	H1/2
18:00	Karl Lohmann Prize Chair: R. Lill Alexander Bartelt , Hamburg (DE) A New, Powerful Player in Lipoprotein Metabolism: Brown Adipose Tissue	H1/2
18:20	PhD Prize of the GBM Felix Tritschler , Zürich (CH) Structural and Functional Characterization of Metazoan mRNA-Decapping Co-Activators	H1/2
18:45	Warburg Medal & Lecture (sponsored by QIAGEN) Chair: I. Sinning Peter Walter , San Francisco (US) The Unfolded Protein Response in Health and Disease	H1/2
20:00	Get-together at the Posters by Beer, Wine & Snacks	1. & 3. Floor
20:00	Meet the Prof - Eric Gouaux	H7
22:00	After Poster Party	3. Floor

Monday, 26.9.2011

Plenary Lectures		
09:00	Chair: T. Langer Guido Kroemer , Villejuif (FR) Autophagy: A Cytoprotective Mechanism with Anti-aging Properties	H1/2
09:40	Chair: M. Mörl Dieter Söll , New Haven (US) The Continued Evolution of the Genetic Code	H1/2
10:20	Chair: V. Dötsch Susan Taylor , La Jolla (US) PKA: Assembly of Dynamic Macromolecular Signaling Scaffolds	H1/2
11:00	Coffee Break	
Parallel Plenaries		
11:30	Chair: E.M. Schuman Christine Holt , Cambridge (UK) RNA-based Control of Wiring the Brain	H1
	Chair: K.M. Pos Poul Nissen , Arhus (DK) Structure and Function of P-Type ATPase Cation Pumps	H2
12:00	Chair: N. Pfanner Judith Frydman , Stanford (US) Molecular Origami: Protein Folding and Misfolding in Health and Disease	H1
	Chair: L. Schmitt Jue Chen , West Lafayette (US) Structural Studies of the Maltose Transporter	H2
12:30	Lunch Break	
13:00 Lunch Sessions "Science and Beyond"		
	Open Access	H7
	Women's Science Network	H8
	Life Science Journalism	H9
	Utopia Science – Perspectives for the Next Generation of Scientists	H10
	Meet the Prof - John Walker	H11
	Students for Students: Diploma, Master & Bachelor Symposium	H12

Monday, 26.9.2011

13:00	Poster Session	1., 2. & 3. Floor
14:30	Coffee Break	
15:00	Pecha Kucha - Parallel Short Talks (3 x 12 à 10 min)	
15:00	Signaling, Chemical & Systems Biology Chair: F. Wittinghofer / H. Ploegh Florent Beaufils, Shizuka Uchida, Carsten Grötzinger, Katharina Moschner, Denis Wätzlich, Melanie Meister, Mike-Freya Müller, Marion Weberruss, Katrin Krumpke, Suzan Can, Sonja Radau, Ilka Thiel	H8
15:00	RNA, DNA & Molecular Medicine Chair: E.M. Schuman / P. Walter Stephan Kuhlenkötter, Helena Dickinson, Cindy Meyer, Georgi Tushev, Christine Andres, Tanmay Bharat, Harald Bielig, Steffen Kaiser, Tina Wenz, Silke Dornieden, Benno Schierling, Andreas Reichert	H10
15:00	Protein Structure, Dynamics & Membrane Chair: B. Dobberstein / N. Pfanner Susanne Stefer, Bianca Schrul, Marcel Deponte, Mathias Henze, Sabrina Mindthoff, Sebastian Longen, Cornelia Bröcker, Michael Veit, Enrica Bordignon, Daniel Hilger, Hi-Jea Cha, Björn Steinmann	H12
17:00	Coffee Break	
17:30	Study Group Sessions	
	Life Cell Imaging Chair: R. Brandt / L. Bakota	H7
17:30	Rainer Pepperkok , Heidelberg (DE) High Content/Throughput Microscopy Identifies Novel Networks in Membrane Traffic and Organelle Biogenesis	
18:00	Brian Bacskai , Charlestown (US) Imaging Structure and Function in the Living Brain	
18:30	Melanie Meyer-Luehmann , München (DE) <i>In Vivo</i> Imaging of Alzheimer's Disease Mouse Models	
18:50	Jan Huiskens , Dresden (DE) Systematic High-Speed Imaging of Organogenesis in Entire Zebrafish	

Monday, 26.9.2011

19:10	Markus Hirsch , Mainz (DE) Real-Time Analysis of siRNA Integrity and Distribution	
19:20	Jörg Brühmann , Osnabrück (DE) Analyzing Microtubule Dynamics in Living Cells Using Fluorescence Photoactivation	
	Plant Equals Energy Chair: E. Schleiff	H8
17:30	Peter Eastmond , Warwick (UK) Producing More Oil in Plants	
18:00	Olaf Kruse , Bielefeld (DE) Molecular Aspects of Light to Biomass to Fuel Conversion with Microalgae	
18:30	Staffan Persson , Potsdam (DE) A Blueprint for Cellulose Synthesis in Higher Plants	
19:00	Anja Hemschemeier , Bochum (DE) Surviving in the Absence of Air – Analysis of the Anaerobic Hydrogen Metabolism of the Microalga <i>Chlamydomonas</i> by RNA-Seq and Classical Approaches	
	Biomembranes Chair: D. Schneider	H9
17:30	Bert Poolman , Groningen (NL) CBS Domains 1 and 2 Fulfill Different Roles in Ionic Strength Sensing of the ABC Transporter OpuA	
18:00	Christine Ziegler , Frankfurt (DE) Molecular Mechanism of Betaine Transport and Stress Regulation by the Na ⁺ -Coupled Symporter BetP	
18:30	Sin Urban , Baltimore (US) Rhomboid Proteolysis: Why Inside the Membrane?	
19:00	Thomas Becker , Freiburg (DE) Biogenesis of Alpha-Helical Outer Membrane Proteins	
19:15	Nadja Hellmann , Mainz (DE) Modulation of Alpha-Toxin Binding by Membrane Composition	

Monday, 26.9.2011

	Systems Bioinformatics Chair: I. Koch	H10
17:30	Sarah Teichmann , Cambridge (UK) A Quantitative View of Gene Expression Levels in T Helper Cells	
18:00	Daniel Promislow , Athens (US) A Network Perspective on the Biology of Ageing	
18:30	Thomas Dandekar , Würzburg (DE) Modelling Bacterial Metabolism: Smooth Adaption to Different Conditions	
19:00	Björn Junker , Gatersleben (DE) Quantification of Intracellular Metabolic Fluxes in Seeds of Crop Plants	
	The Prokaryotic Immune System CRISPR-Cas Chair: A. Marchfelder	H12
17:30	Emmanuelle Charpentier , Umea (SE) RNA-Guided Immunity: A Novel RNA Maturation Pathway for the Production of CRISPR RNAs Targeting Genome Invaders	
18:00	Edze Westra , Wageningen (NL) Prokaryotic Antiviral Defense Mediated by CRISPR/Cas type I-E	
18:30	Lennart Randau , Marburg (DE) Genomic Traces of the Coevolution of Archaea and Viruses	
19:00	Wolfgang Hess , Freiburg (DE) Cyanobacterial CRISPR-Cas Systems, an Archaeal-Bacterial Hybrid?	
19:15	Jutta Brendel , Ulm (DE) CRISP-Cas with a Grain of Salt	
18:00 – 19:30	Meet the Prof - Peter Walter	H11
19:30 – 22:00	Get-together at the Posters	1. & 3. Floor
20:00	Junior GBM Meeting	H7

Tuesday, 27.9.2011

Plenary Lectures		
09:00	Chair: I. Dikic Mark A. Lemmon , Philadelphia (US) New Lessons in Regulation of the EGFR/ErbB Family of Receptor Tyrosine Kinases	H1/2
09:40	Chair: J. Buchner Arthur Horwich , New Haven (US) The GroEL/GroES Chaperonin Ring Machine	H1/2
10:20	Chair: J. Piehler Tobias Meyer , Stanford (US) A Two Dimensional ERK-AKT Signaling Map Encodes a Cell Fate Decision	H1/2
11:00	Coffee Break	
Parallel Plenaries		
11:30	Chair: R. Erdmann Keiji Tanaka , Tokyo (JP) In-Depth Analysis of Proteasomal Assembly and Diversity in Eukaryotes	H1
	Chair: B. Ludwig John Walker , Cambridge (UK) The ATP Synthase: The Understood, the Uncertain and the Unknown	H2
12:00	Chair: I. Koch Gisbert Schneider , Zürich (CH) From Pockets to Ligands and Back Again: Designing Bioactive Compounds	H1
	Chair: P. Rehling Thomas Langer , Köln (DE) Mitochondrial Quality Control and Neurodegeneration	H2
12:30	Lunch Break	

Tuesday, 27.9.2011

13:00 Lunch Sessions "Science and Beyond"		
13:00	Career Forum	H4
13:00	Funding Opportunities for Postdocs Going Abroad	H12
13:00	Meet the Prof: Tom Rapoport	H13
13:00	Poster Session	1., 2. & 3. Floor
13:00	Advanced Light Microscopy	
13:00	New Discoveries beyond the Diffraction Limit: Nikon Super-Resolution Microscope Systems (by Nikon)	H8
14:00	SIM and PALM as Tools to Study the Structural Organization of Cells (by Carl Zeiss)	H7
14:00	Meeting of the Study Group Molecular Neurobiology	H8
13:00 New Study Group		
	Redox Biology Chair: J. Herrmann	H9
13:00	Johannes Herrmann , Kaiserslautern (DE) Welcome Address: Redoxbiology at the GBM	
13:10	Tobias Dick , Heidelberg (DE) <i>In Vivo</i> Redox Imaging in Model Animals	
13:25	Jan Riemer , Kaiserslautern (DE) Oxidative Protein Folding in Mitochondria	
13:40	Lars Ellgaard , Kopenhagen (DE) A Cytosolic Redox Enzyme in ER-associated Degradation	
14:00	Frauke Melchior , Heidelberg (DE) Regulation of SUMO Enzymes by Oxidative Stress	
14:20	Stefan Dröse , Frankfurt (DE) Mechanisms of Mitochondrial Redox Signaling	
14:40	Karl-Josef Dietz , Bielefeld (DE) The Unique Complexity and Responsiveness of the Regulatory Redox Network in Plant Cells	
14:30	Coffee Break	

Tuesday, 27.9.2011

15:00 Study Group Sessions		
	Mechanisms of Cellular Quality Control Chair: F. Wieland	H3
15:00	Scott Emr , Ithaca (US) Arrestin Related Proteins Mediate Plasma Membrane Protein Quality Maintenance in Yeast	
15:40	Ramanujan Hegde , Cambridge (UK) Chaperones for Membrane Protein Biosynthesis and Quality Control	
16:20	Axel Mogk , Heidelberg (DE) Targeting and Activation of the AAA+ Chaperone ClpB by Cooperating Hsp70 During Protein Disaggregation	
16:40	Martin van der Laan , Freiburg (DE) Mitochondrial Presequence Translocase and Respiratory Chain Complexes – An Intimate Liaison	
	Molecular Mechanisms of Disease Chair: C. Villmann	H4
15:00	Thomas Jentsch , Berlin (DE) The Need for Proton-Driven Vesicular Cl-Accumulation: Insights from Human Disease, Designer Mice and Biophysics	
15:30	Rob Harvey , London (UK) Molecular Mechanisms of GlyT2 Mutations in Startle Disease	
16:00	Till Marquardt , Göttingen (DE) Assembling the Building Blocks of Motor Behavior: From Peripheral Axon Signaling to Motor Unit Plasticity	
16:30	Beate Winner , Erlangen (DE) Modeling Neurodegenerative Diseases Using Stem Cells	

Tuesday, 27.9.2011

	Bioanalytics Chair: R. Zahedi / S. Schuchardt	H7
15:00	Kris Gevaert , Ghent (BE) Protease Degradomics Studied Using Positional Proteomics	
15:30	Martin Larsen , Odense (DK) Quantitative Phosphoproteomics	
16:00	Andreas Pich , Hannover (DE) SILAC-based Proteome Study to Identify New Aspects of Clostridial Toxins	
16:20	Stefanie Kellner , Mainz (DE) N ₃ BC - A Powerful Label for RNA, DNA and Proteins Alike	
16:40	Florian Heigwer , Heidelberg (DE) High-Throughput Analysis of Kinetic ELISA-Microarray Data	
	Neurosignaling in Health and Disease Chair: R. Heumann	H8
15:00	David Kaplan , Toronto (CA) P53 Family in Neurodegeneration, Aging and Neural Stem Cell Function	
15:30	Jens Schwamborn , Münster (DE) Differentiation and Stemness Maintenance of Neural Stem Cells	
15:45	Mohammad Reza Ahmadian , Düsseldorf (DE) 25 Years of Ras Structural Biochemistry: Interaction and Network Perspectives	
16:00	Carlos Ibanez , Stockholm (SE) Signaling Decoding by p75 Neurotrophin Receptor	
16:30	Raphael Stoll , Bochum (DE) Ras Homolog Enriched in Brain (Rheb) Enhances Apoptotic Signaling	
16:45	Simon Ebbinghaus , Bochum (DE) Early Phases of Protein Aggregation Probed <i>in Vivo</i>	

Tuesday, 27.9.2011

	Chemical Biology: Chemical Probes to Dissect Biological Processes Chair: R. Frank	H12
15:00	Kai Johnsson , Lausanne (CH) Spying on Drugs and Metabolites in Living Cells	
15:25	Hidde Ploegh , Cambridge (US) Chemical Tools to Probe the Ubiquitin-Proteasome System	
15:50	Carsten Schultz , Heidelberg (DE) Tools for Reconstituting Intracellular Signaling Networks	
16:15	Dirk Schwarzer , Berlin (DE) Acetylation-Reporters for Residue-Specific Histone Deacetylase and Acetyl-Transferase Profiling in Real Time	
16:30	Jan Eickhoff , Dortmund (DE) Novel Selective Inhibitors of Cyclin Dependent Kinase 7	
16:40	Alexander Neuhaus , Bochum (DE) TubStain, a Novel Non-Antibody Tool for Direct Labeling of Microtubules	
16:50	Marika Midon , Gießen (DE) Towards a High Throughput Screening of Inhibitors for <i>Streptococcus pneumoniae</i>	
17:00	Coffee Break	
17:30	Young Investigator Award of the Schering Foundation Chair: R. Goody Gunter Meister , Regensburg (DE) Mechanisms of Small RNA-guided Gene Silencing	H1/2
18:00	Lipman Lecture Chair: I. Sinning Eric Gouaux , Portland (US) Architecture and Dynamics of Signaling Molecules at Chemical Synapses	H1/2
19:00	Break	
19:30	Dinner & More	Casino

Wednesday, 28.9.2011

09:00 Study Group Sessions		
	Energy for Life and Health Chair: C. Hunte / B. Ludwig	H7
09:00	Carlos Moraes , Miami (US) Mitochondrial Dysfunction and Diseases	
09:30	Volker Zickermann , Frankfurt (DE) Structural Basis for Redox-Linked Proton Translocation by Mitochondrial Complex I	
09:45	Thomas Meier , Frankfurt (DE) Rotors of ATP Synthases	
10:00	Oliver Lenz , Berlin (DE) Nature's Way to Exploit Hydrogen as Alternative Fuel	
10:30	Ernst Bamberg , Frankfurt (DE) Microbial Rhodopsins: Light-Gated Ion Channels and Pumps as Optogenetic Tools in Neuro- and Cell Biology	
	Structure, Dynamics and Interaction of Proteins Chair: C. Seidel	H8
09:00	Richard Kriwacki , Memphis (US) Intrinsic Protein Disorder and Dynamics in Regulation and Signaling	
09:30	Macarena Marin , München (DE) Domain Studies on Remorin AtREM1.3 Intrinsic Disorder	
09:45	Hendrik Schäfer , Frankfurt (DE) Influence of Alternative Splicing Events to Secondary Structure of Proteins	
10:00	Don Lamb , München (DE) Ultrasensitive Fluorescence Methods for Investigating Chaperones and Viruses	
10:30	Christoph Baldauf , Frankfurt (DE) The <i>Da Vinci</i> Code of TAP – Decoding the Conformation of Antigenic Peptides Bound to TAP by EPR Spectroscopy	
10:45	Zbigniew Warkocki , Göttingen (DE) <i>In Vitro</i> Reconstitution of Both Steps of Splicing and Investigation of the Spliceosome Dynamics	

Wednesday, 28.9.2011

	Oncogene Signaling Chair: C. Blattner / K. Giehl	H9
09:00	John Hancock , Houston (US) Spatiotemporal Control of Ras Plasma Membrane Interactions	
09:30	Yoel Kloog , Tel Aviv (IL) Ras Chaperones for Cancer Therapy and Ras Transfer from Cell-to-Cell	
10:00	Ilka Oerlecke , Halle (DE) Cooperative Effect of cAMP and TGF- β in Aggressive Breast Cancer	
10:15	Stephanie Bremer , Bonn (DE) Molecular Interactions of HDGF	
10:30	Jiezhong Chen , Wollongong (AU) The Role of Insulin Signalling via the PI3-Kinase/Akt/mTOR Pathway and of the Anti-Apoptotic Translationally Controlled Tumor Protein TCTP in the Development of Drug Resistance in Colon Cancer Cells	
10:45	Johanna Blees , Frankfurt (DE) Erioflorin Stabilizes the Tumor Suppressor Pcd4 by Inhibiting the E3-Ligase β -TrCP1	
	Glycoproteomics Chair: R. Horstkorte	H10
09:00	Urs Lewandrowski , Dortmund (DE) Glycoproteomic Analysis – Opportunities and Threats	
09:45	Ronald Schnaar , Baltimore (US) Lectin-Glycan Binding Controls Axon-Myelin Interactions	
10:30	Isabelle Breloy , Köln (DE) O-Linked Lacdi Nac-modified Glycans in Extracellular Matrix Glycoproteins are Glycan-Specifically Phosphorylated in a Cell Stress Independent Manner	
10:40	Sebastian Peter Galuska , Gießen (DE) Increased Polysialylation in Lung Tissue of Patients with Idiopathic Pulmonary Fibrosis	
10:50	Manuel Maestre Reyna , Marburg (DE) Binding Characteristics of Epithelial Adhesins from <i>Candida Glabrata</i>	

Wednesday, 28.9.2011

	Structure-based and Computational Protein Design Chair: R. Sterner	H11
09:00	Tanja Kortemme , San Francisco (US) Computational Molecular Design – Shaping Protein Conformations and Predicting Functional Sequences	
09:40	Birte Höcker , Tübingen (DE) Playing Lego: A Functional Protein Designed from Fragments of Two Different Folds	
10:20	Donald Hilvert , Zürich (CH) Designer Enzymes	
11:00	Coffee Break	
11:30	Poster Awards Chair: R. Goody / K. Giehl	H1/2
11:40	Perspective Closing Lecture Chair: R. Tampé Tom Rapoport , Boston (US) How the Endoplasmic Reticulum Gets into Shape	H1/2
12:40	Final Remarks & End of Conference	H1/2



Pecha Kucha – Parallel Short Talks | Monday, 26.9.2011

	Signaling, Chemical & Systems Biology Chair: F. Wittinghofer / H. Ploegh	H8
15:00	Florent Beauflis , Wyman Lab, Basel (CH) Chemical Control of Intracellular Signaling Cascades in Time and Space	
15:10	Shizuka Uchida , Braun Lab, Bad Nauheim (DE) Annotating New Genes: From <i>In Silico</i> Screening to Validations by Experiments	
15:20	Carsten Grötzinger , Grötzinger Lab, Berlin (DE) Probing the Signaling Complexity of Tumor Cells by Functional Screening of Peptide and Small Molecule Libraries	
15:30	Katharina Moschner , Brandt Lab, Osnabrück (DE) Fluorescence Photoactivation as a Tool to Determine the Dynamics of Tau mRNA Binding Proteins	
15:40	Denis Wätzlich , Wittinghofer Lab, Dortmund (DE) Characterization of RPGR and RPGR-IP in the Ciliary Network	
15:50	Melanie Meister , Tikkanen Lab, Gießen, (DE) Flotilin-1 is Essential for the Activation of EGF Receptor	
16:00	Mike-Freya Müller , Kipp Lab, Potsdam (DE) The Selenoproteins GPx2, TrxR2 and TrxR3 are Regulated by Wnt Signaling in the Intestinal Epithelium	
16:10	Marion Weberruss , Enenkel / Wolf Lab, Stuttgart (DE) Regulation of Proteasome Homeostasis	
16:20	Katrin Krumpe , Rapoport Lab, Tübingen (DE) A Systematic Microscopy Screen Uncovers the Insertion Requirement of Yeast Mitochondrial Tail-Anchored Proteins	
16:30	Suzan Can , Ott Lab, Heidelberg (DE) Identification of Small Molecule Modulators of Mitochondrial Activity Using Functional Assays with Purified Biological Active Mitochondria	
16:40	Sonja Radau , Sickmann Lab, Dortmund (DE) Developing Novel Methods for Systems Biology of Membrane Protein Complexes	
16:50	Ilka Thiel , Mootz Lab, Münster (DE) Highly Efficient and More General Cis- and Trans-Splicing Inteins through Sequential Directed Evolution	

Pecha Kucha – Parallel Short Talks | Monday, 26.9.2011

	RNA, DNA & Molecular Medicine Chair: E.M. Schuman / P. Walter	H10
15:00	Stephan Kuhlenkötter , Rodnina Lab, Göttingen (DE) Different Substrate-Dependent Transition States in the Active Site of the Ribosome	
15:10	Helena Dickinson , Mörl Lab, Leipzig (DE) Characterization of a tRNA Editing Activity in <i>S. cerevisiae</i>	
15:20	Cindy Meyer , Hahn Lab, Hamburg (DE) RNA Aptamers Specific for the Interleukin-6 Receptor	
15:30	Georgi Tushev , Schuman Lab, Frankfurt (DE) Deep Sequencing and High Resolution Imaging Reveals the Local Transcriptome in the Hippocampal Synaptic Neurophil	
15:40	Christine Andres , Hucho Lab, Berlin (DE) Quantitative Automated Microscopy (QuAM) Elucidates Growth Factor Specific Signaling in Pain Sensitization	
15:50	Tanmay Bharat , Briggs Lab, Heidelberg (DE) Cryo-Electron Tomography of Marburg Virus Particles and their Assembly and Release from Infected Cells	
16:00	Harald Bielig , Kufer Lab, Köln (DE) Genome-Wide siRNA Screening Reveals XIAP as Essential Factor for NOD1-mediated Innate Immune Signaling	
16:10	Steffen Kaiser , Helm Lab, Mainz (DE) Impact of RNA Modifications on TLR7 Recognition	
16:20	Tina Wenz , Wenz Lab, Köln (DE) Sirt3 - A Stress Regulator of OXPHOS Function and Mitochondrial Translation	
16:30	Silke Dornieden , Willbold Lab, Jülich (DE) Expression and Characterization of an A β Oligomer Binding Single-Chain Variable Fragment – A Novel Tool for the Treatment of Alzheimer's Disease?	
16:40	Benno Schierling , Pingoud Lab, Gießen (DE) Developing a Novel Zinc-Finger Nuclease with a Sequence-Specific Cleavage Module	
16:50	Andreas Reichert , Skerra Lab, München (DE) Development and Characterization of an Exendin-4 Cariant with Extended Plasma Half-Life by PASylation®	

Pecha Kucha – Parallel Short Talks | Monday, 26.9.2011

	Protein Structure, Dynamics & Membrane Chair: B. Dobberstein / N. Pfanner	H12
15:00	Susanne Stefer , Dötsch / Sinning Lab, Frankfurt / Heidelberg (DE) Tail-anchored Membrane Protein Biogenesis by the Get3-Receptor Complex	
15:10	Bianca Schrul , Schwappach Lab, Göttingen (DE) Characterization of GET Protein Distribution in <i>S. cerevisiae</i> under Different Physiological Conditions – From Light Microscopy to Ultrastructural Analysis	
15:20	Marcel Deponte , Deponte Lab, Heidelberg (DE) GFP-Tagging Sheds Light on Protein Translocation	
15:30	Mathias Henze , Rudolph / Balbach Lab, Halle (DE) Antagonist Recognition of a G Protein-Coupled Receptor	
15:40	Sabrina Mindthoff , Erdmann Lab, Bochum (DE) Phosphoinositide-3-Kinase Vps34p Is Required for Peroxisomal Degradation in the Yeast <i>S. cerevisiae</i>	
15:50	Sebastian Longen , Herrmann Lab, Kaiserslautern (DE) Mrp10 – A Regulator of Mitochondrial Protein Synthesis?	
16:00	Cornelia Bröcker , Ungermann Lab, Osnabrück (DE) Molecular Interactions and Function of the HOPS Complex	
16:10	Michael Veit , Veit Lab, Berlin (DE) Role of the Amphiphilic Helix of M2 for Influenza Virus Budding	
16:20	Enrica Bordignon , Bordignon Lab, Zürich (DE) EPR on Type I and Type II ABC Importers	
16:30	Daniel Hilger , Jung Lab, München (DE) Helix Bundle Structure of the Sodium/Proline Symporter PutP Obtained by DEER Distance Measurements in a Native Lipid Environment	
16:40	Hi-Jea Cha , Pos Lab, Frankfurt (DE) The Transport Mechanism of the Multidrug Transporter AcrB Involves Two Binding Areas that Are Separated by a Switch-Loop	
16:50	Björn Steinmann , Kolmar Lab, Darmstadt (DE) Screening of a Naïve VHH Antibody Library from Non-Immunized <i>Lama Glama</i> Using Phage and Yeast Display and Isolation of Binders against Various Targets	

Science and Beyond

Open Access

Monday, 26.9.2011, 13:00 – 14:30

Location: H7

Moderation: Ulrich Brandt, Frankfurt (DE)

We invite you to an interesting panel discussion about “Open Access Publishing”. Our guests will discuss pros and cons of free online access to scientific journals and other knowledge resources in the internet.

Stefan Busch, London (GB)

BioMed Central

Berndt Dugall, Frankfurt (DE)

University Library Frankfurt

Johannes Fournier, Bonn (DE)

Deutsche Forschungsgemeinschaft (DFG)

Scientific Library Services and Information Systems

Catherine Goodman, Cambridge (US)

Nature Chemical Biology

Angelika Lex, München (DE)

Vice President

Academic and Government Relations - Elsevier

Wim van der Stelt, Dordrecht (NL)

Executive Vice President Business Development

Springer-Verlag

Women's Science Network

Monday, 26.9.2011, 13:00 – 14:30

Location: H8

Moderation:

Anna Starzinski-Powitz, Frankfurt (DE)

Kirsten Jung, München (DE)

All female scientists (students, postdoctoral fellows, group leaders, professors) are invited to meet with international recognized female scientists and debate on issues of women's science networks.

These entail the importance of networks in general, support and guidance by networks, issues that affect scientific career development and success.

The event is organized by Kirsten Jung, LMU Munich and

Anna Starzinski-Powitz, Goethe University Frankfurt.

Jue Chen, West Lafayette (US)

Female Speaker on the Symposium

Judith Frydman, Stanford (US)

Female Speaker on the Symposium

Ingrid Wüning Tschol, Stuttgart (DE)

Initiator of AcademiaNet Lecturing (for the

Robert-Bosch-Stiftung)

Life Science Journalism

Monday, 26.9.2011, 13:00 – 14:30

Location: H9

Moderation:

Anne Hardy, Frankfurt (DE)

Journalist, Speaker of Science Communication

Goethe University Frankfurt

Joachim Pietzsch, Frankfurt (DE)

Journalist, Life Science Writer

Possibilities and professional perspectives in life science journalism for young scientists is addressed. There will be a lively and informal discussion with important representatives from print to blog media, including the audience and their questions at an early stage.

Beatrice Lugger, München (DE)

Online Journalism, Science Blogs

Joachim Müller-Jung, Frankfurt (DE)

Department Director „Natur & Wissenschaft“ of the newspaper „Frankfurter Allgemeine Zeitung“

Regina Oehler, Frankfurt (DE)

„Hessischer Rundfunk, hr2-kultur“

Science Editorial Office

Utopia Science – Perspectives for the Next Generation of Scientists

Monday, 26.9.2011, 13:00 – 14:30

Location: H10

Moderation: Carsten Hucho, Berlin (DE)

In this round table discussion we will dissect, where in academia or in private enterprises opportunities are looming, and which expertises to foster. Beyond the common lamenting about the often troubling current situation, the utopia of science will be challenged and what aspects thereof are realistic to fight for.

Felix Engel, Bad Nauheim (DE)

Young Academic, Sofja Kovalevskaja Price, Group Leader at the Max Planck Institute for Lung and Heart Research

Henrike Hartmann, Hannover (DE)

Volkswagenstiftung

Anke Prinz, Melsungen (DE)

Young Academic, since recently Manager of RA/QA at Dr. Schumacher GmbH

Alfred Lukaszyk, Essen (DE)

Head of Employer Branding (HR), Evonik (formerly Degussa)

Peter Walter, San Francisco (US)

Howard Hughes Medical Institute, UCSF

Science & Beyond

Funding Opportunities for Postdocs Going Abroad

Tuesday, 27.9.2011, 13:00 – 14:30

Location: H12

Moderation: Tim Hucho, Berlin (DE)

Where to go as a PostDoc is often clear. But how to finance it? Programs of DFG, EMBO, EU (Marie Curie), Humboldt Society, and of the Human Frontier Science Program will be explained by delegates of these funding societies and questions answered.

Dorette Breitkreuz, Bonn (DE)

Deutsche Forschungsgemeinschaft (DFG)

Guntram Bauer, Strasbourg (FR)

Human Frontier Science Program (HFSP)

Sandra Haseloff, Bonn (DE)

Alexander von Humboldt and Marie Curie Fellowships

Anne-Marie Glynn, Heidelberg (DE)

European Molecular Biology Organization (EMBO)

Career Forum

Tuesday, 27.9.2011, 13:00 – 14:30

Location: H4

Moderation: Henrik Cordes, Darmstadt (DE)

Two human resources representatives from the companies Sanofi-Aventis and Life Technologies present the career options for scientists in industry. The session is addressed to PhDs or PostDocs thinking about alternatives to the university career. Both companies will introduce themselves and inform on qualifications needed, which topics and techniques are in demand and what else has to be considered for applications. Questions can be raised and discussed.

Sanofi-Aventis

Annette Aulike, Frankfurt (DE)

Life Technologies

Peggy Klein, Darmstadt (DE)

Meet the Prof

Organization: Arne Wehling, Frankfurt (DE)

The event "Meet the Prof" will feature speakers from science and research. On this occasion, you have got the chance to ask the question, which keeps you up at night.

- How do I pursue a career in science?
- Did speakers have fun on their own way and which experiences were helpful?

Our guests are:

Eric Gouaux, Portland (US)

Sunday, 25.9.2011, 20:00, Location: H7

John Walker, Cambridge (UK)

Monday, 26.9.2011, 13:00, Location: H11

Peter Walter, San Francisco (US)

Monday, 26.9.2011, 18:00, Location: H11

Tom Rapoport, Boston (US)

Tuesday, 27.9.2011, 13:00, Location: H13

You are welcome to join and ask further questions. Please note that attendance is limited by space. A first-come-first-serve-registration is required.

We hope to see you at "Meet the Prof"!



Science & Beyond

Diploma / Master / Bachelor Symposium

Monday, 26.9.2011, 13:00 – 14:30

Location: H12

Moderation:

Anja Blessing, Frankfurt (DE)

Wagner Steuer-Costa, Frankfurt (DE)

In this “students for students” session students will present their Diploma, Master or Bachelor Thesis in an informal atmosphere. Each talk takes 5 min. plus 5 min. of discussion.

Roman Scholz (BA), Berlin (DE)

Channelrhodopsin

Michaela Lesjak (MA), Bochum (DE)

Role of Edi-3 in Prometastatic Cell Signaling

Frauke Kausch (BA), Lübeck (DE)

Effect of Sexual Hormones on HIF Dependent Processes

Michael Stangl (Diploma), Mainz (DE)

Effect of Detergents on the Dimerization of Transmembrane Helices

Julia Neugebauer (MA), Heidelberg (DE)

Function and Regulation of Newly Non-Protein Coding RNA Molecules in Response to DNA Damage and Repair

Ariane Neumann (MA), Hannover (DE)

The Antimicrobial Peptide LL37 Stabilizes Neutrophil Extracellular Traps against *Staphylococcus aureus* Nuclease Degradation

Sven Warhaut (BA), Frankfurt (DE)

Analysis of Folding Kinetic of Lactalbumin via Stopped-Flow Measurement

Sara Vossler (Diploma), Hohenheim (DE)

Causative Agents of Cholera is Energized by Means of Novel Na⁺ Translocating Respiratory Complex



Science goes Public

Public Lecture (in German)

Sunday, 25.9.2011, 16:00

Location: H1/2

Moderation: M. Schubert-Zsilavec, Frankfurt (DE)

Vice-President of the Goethe University Frankfurt

Werner W. Franke, Heidelberg (DE)

Staatlich geförderte kriminelle Handlungen an jungen Menschen (Doping im Sport): Die Rollen von „Ärzten“ und Wissenschaftlern

Pupils' Congress / Schülerkongress (in German)

Mittwoch, 28.9.2011

Location: H12

9:00 – 9:30 Uhr: **Harald Schwalbe**

Von Kaffee zu Enzymen – Die Struktur von biologisch interessanten Molekülen mit Hilfe der NMR-Spektroskopie

9:30 – 10:00 Uhr: **Paul W. Dierkes**

Keine Angst vor Blutegeln! – Neurobiologische Forschung an einem einfachen Modellsystem

10:00 – 10:45 Uhr: **Alexander Gottschalk**

Würmer in der Disco: Kontrolle von neuronaler Aktivität und Tierverhalten durch Licht

13:00 – 16:00 Uhr: **Armin Lühken, Paul W. Dierkes**

Experimentalkurse, Campus Riedberg

Das Programm des Schülerkongresses gewährt Einblicke in den Aufbau von Nervenzellen, erklärt, wie Diffusion und Osmose funktionieren, erläutert das Thema „Evolution“ und die Methoden ihrer Erforschung, die Analyse des eigenen Blutes und die Enträtselung von Proteinstrukturen.

Im Anschluss bietet sich für die Schüler ein Rundgang durch die Industrieausstellung an. Die Schüler haben Gelegenheit, einfach mal „Tagungsluft“ zu schnuppern, bevor sie sich auf den Weg zum Campus Riedberg machen, wo der Experimentaltteil der Veranstaltung stattfindet. Außerdem stellen am Vormittag SchülerInnen des Projekts „CEF-Explorer“ ihre wissenschaftlichen Poster am Campus Westend aus.

Ziel des „CEF-Explorer“ ist es, die Forschungsaktivitäten des CEF an Schulen bekannt zu machen, um im Sinne der frühzeitigen Nachwuchsförderung für den Studien- und Forschungsstandort Campus Riedberg der Goethe-Universität Frankfurt zu interessieren und zu werben. Die Schüler experimentieren in einer authentischen Forschungsumgebung gemeinsam mit Wissenschaftlern, um im Rahmen des Projekts eine eigene Forschungsfrage zu beantworten. Die Projektarbeit wird nach wissenschaftlichen Leitvorgaben dokumentiert und im Rahmen eines Schülersymposiums präsentiert.

Zielgruppe: Schüler der Sekundarstufe II

Detaillierte Information:

www.molecular-life-sciences.de

Social Events

Welcome Reception / Get-together at the Posters I

Sunday, 25.9.2011, 20:00

Location: 1. & 3. Floor, Lecture Building

The organizers welcome all participants to the conference at the posters. Beer, wine and snacks will be served.

Get-together at the Posters II

Monday, 26.9.2011, 19:30

Location: 1. & 3. Floor, Lecture Building

Dinner & More

Tuesday, 27.9.2011, 19:30

Location: Casino Building (opposite the Lecture Building)

If you like to meet other attendees or the scientific organizers apart from the conference itself, we invite you to “Dinner & More” on tuesday evening. Enjoy food and drinks in an informal atmosphere.

Join us for the after dinner party, which will take place with music and dance in a separate part of the Casino Building.

Posters

Poster Exhibition

Posters will be presented throughout the whole meeting.

There will be poster discussion sessions as follows:

Sunday, 25.9.2011 20:00 – 22:00

Monday, 26.9.2011 12:30 – 15:00 and 19:30 – 22:00

Tuesday, 27.9.2011 12:30 – 15:00

During this time the presenting authors are requested to stay near their posters.

Please see the abstract book for poster numbers and authors.

The poster contributions are grouped together in correspondence with the main topics:

RNA Biology (R)

Protein Structure and Dynamics (P)

Membrane Biology (B)

Signaling – from Membranes to Nucleus (S)

Chemical and Systems Biology (C)

Molecular Medicine (M)

Other free Topics (O)

The posters should be presented in portrait format 118.8 x 84 cm (height x width, DIN A0).

Poster Buttons

- **Poster Button:** Give this button to any scientist you wish to discuss your poster with. The receiver is kindly requested to visit the poster.

The poster number is marked on the reversed side.



- **Red Button:** This button marks poster contributions presented by new principal investigators (who took a group leader position during the last 5 years).



Poster Prizes

Poster prizes will be awarded to the best posters according to the suggestion of all speakers of the conference and members of the scientific board. Please be prepared to answer questions by members of the poster prize selection committee during the poster sessions.

The poster prize will be awarded before the Perspective Closing Lecture and the closing remarks.

Wednesday, 28.9.2011, 11:30

All poster authors are requested to attend the session.

Citation of Poster Abstracts

All meeting abstracts are indexed using the Digital Object Identifier (DOI).

The DOI is an internationally accepted system for identifying and exchanging intellectual property in the digital environment and the standard reference system for electronic journals – for more information please see www.doi.org

You can use the DOI as reference for your abstracts as you did in the past years with the volume and page number of a printed abstract magazine supplement. People can find the abstract e.g. searching the crossref.org database, which links to the full abstract.

General Information

Coffee Breaks & Lunch

Coffee, tea and mineral water will be provided for free during the coffee breaks.

The conference fee also includes a lunch package, which is available at the catering stations located in the lecture building.

Conference Office

The conference office will be located in the foyer of the Lecture Building of Campus Westend.

Opening hours:

25.9.2011 15:00 – 20:00
26.9.2011 08:00 – 17:30
27.9.2011 08:30 – 17:30
28.9.2011 08:30 – 13:00

Numbers of the conference office (during the opening hours):

Tel. +49 69 798 34566
Fax +49 69 798 34567

Conference Material

The conference bag includes:

- Name badge
- Program
- Abstract book
- Receipt of the registration fee
- Ticket for public transportation (if indicated during the online registration)
- Information about Frankfurt
- Poster Button (if a poster was submitted)
- Red Button (for new principal investigators)

We kindly ask to wear your name badge as an entry ticket during the entire meeting.

Information for Speakers

Available technical equipment: PCs with powerpoint, laser pointer and microphone. You can also bring your own equipment for plug-in. In case you bring a Mac please provide an adapter for connecting the projector.

Please come 30 min. prior your talk to test your presentation.

Internet

Free access to the university's WLAN during the conference is available on the entire campus.

EDUROAM

In case you have access to eduroam (educational roaming) already, we recommend to use your eduroam account at the Goethe University. The SSID (WLAN name) is "eduroam".

FREIFLUG

Alternatively we provide internet access by the wireless network "FREIFLUG". Please come to the registration desk if you need the login data.

Internet Corner

Computers with free internet access are available nearby the registration desk.

Technical Support

At the registration desk you will gain technical support as needed.

Registration Fees | On-site

undergraduates (members*)	60 €
undergraduates (non-members)	85 €
PhD students (members*)	85 €
PhD students (non-members)	110 €
members academia*	300 €
non-members academia	375 €
retiree members*	160 €
retiree non-member	200 €
members* industry	475 €
non-members industry	550 €

* members of GBM, VAAM, DGZ, DECHEMA



General Information

Travel information

Arriving by car from the A5/A66 (Nordwestkreuz):

- » At the Nordwestkreuz, take the A66 towards Miquelallee
- » After the bridge, take the very right of the four lanes and turn right into Hansaallee at the first set of traffic lights
- » From Hansaallee, turn right after app. 300 m into Bremer Straße
- » At the junction, turn right again into Fürstenberger Straße

For entry into a **navigation system**:

Approach via Fürstenberger Straße (or the Goethe Universitys address: Grüneburgplatz 1)

Only limited parking is available.

We recommend using public transport.

Arriving by public transport:

- » *From Airport:* S-Bahn (Lines S8, S9) to Hauptwache; from Hauptwache U-Bahn (Lines U1, U2, U3 or U8) to Holzhausenstraße
- » *From Frankfurt Central Station:* S-Bahn (Lines S1-S9) to Hauptwache; from there U-Bahn lines U1, U2, U3 or U8 to Holzhausenstraße, from where it is just a short walk to the Campus
- » *From the Campus Bockenheim:* bus numbers 36 or 75 to Uni Campus Westend
- » *From Hauptwache:* U-Bahn lines U1, U2, U3 or U8 to Holzhausenstraße
- » *From Konstablerwache:* bus number 36 to Uni Campus Westend
- » *From Westbahnhof:* bus number 36 via Campus Bockenheim to Uni Campus Westend

Map of Frankfurt: Page 42

Venue

About Goethe University

The Goethe University Frankfurt was founded in 1914 as a Citizens' University, which means that, while it was a State university of Prussia, it had been founded and financed by the wealthy and active liberal citizenry of Frankfurt, a unique feature in German university history. It was named in 1932 after one of the most famous natives of Frankfurt, the poet and writer Johann Wolfgang von Goethe. Today, the university has 38,000 students on four major campuses.

About Campus Westend

Campus Westend of Goethe University Frankfurt nestles in a burst of parkland, yet directly borders Frankfurt's downtown, boasting a wealth of eateries, shops, theatres and other recreational facilities.

The buildings of Campus Westend are based around the Neo-Realist IG Farben Building, while immediately beyond the campus boundaries you can find splendid art deco residences and cutting-edge modernist architecture.

About Frankfurt

„Were someone to ask me what place I thought more comfortable for my cradle, more fitting for my bourgeois attitudes, more appropriate for my poetic view, I could not name a better city than Frankfurt.“

Johann Wolfgang von Goethe

Frankfurt – the financial centre, the European city, the traffic hub, the smallest metropolis in the world. When you think of the city on the Main, you think of the airport, the Paulskirche and Goethe, the Stock Exchange, the Book Fair and the skyline. No doubt about it: Frankfurt brings opposites together in the most fruitful way. And in a most enjoyable manner, the advantages of a global city with tranquillity. A city with a *savoir-vivre*, in whose streets multilingualism is an accepted way of life. Yet often only a few steps separate global city flair and homey cosiness in Frankfurt.

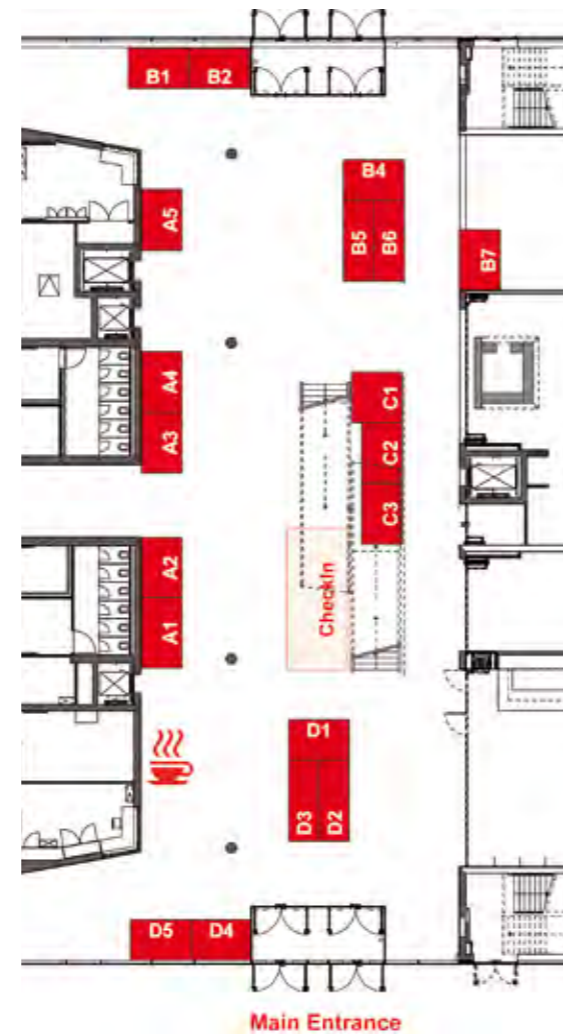
Part of the unmistakable style of the city on the river are the renowned museums on the Main banks, the bold high-rise architecture, the thinkers of the Frankfurt School as well as the Grüne Soße, Ebbelwoi and Frankfurter sausages. And last but not least, and indeed difficult to believe, the financial metropolis is not a stone juggernaut, but rather a very green city!

More information: www.frankfurt.de

List of Exhibitors

- C2** AppliChem GmbH, 64291 Darmstadt
- A2** BIOMOL GmbH, 22769 Hamburg
- D1** BIOZOL Diagnostica/Dualsystems Biotech, 85386 Eching
- D5** BRAND GMBH & CO KG, 97877 Wertheim
- B4** CHROMAPHOR, 46242 Bottrop
- D3** CyBio AG, 07745 Jena
- C1** Deutsche Forschungsgemeinschaft (DFG), 53175 Bonn
- A4** IBA GmbH, 37079 Göttingen
- B5** LI-COR Biosciences, 61352 Bad Homburg
- B1** MERCK MILLIPORE, GM24 Molsheim Cedex, France
- D4** Mettler Toledo GmbH, 35396 Giessen
- A3** New England Biolabs GmbH, 65926 Frankfurt am Main
- B7** Nikon GmbH, Mikroskope, 40472 Düsseldorf
- B2** SARSTEDT AG & Co., 51588 Nümbrecht
- A5** SERVA Electrophoresis GmbH, 69115 Heidelberg
- A1** SPEKTRUM AKADEMISCHER VERLAG, 69121 Heidelberg
- C3** Thermo Scientific, 9320 Erembodegem, Belgium
- B6** Verlag Walter de Gruyter GmbH & Co. KG., 10785 Berlin
- D2** Carl Zeiss MicroImaging GmbH, 07740 Jena

Map: Foyer



Industrial Symposium

Advanced Light Microscopy

Tuesday, 27.9.2011, 13:00

Location: H8

Klaus Nettesheim

Nikon GmbH, Mikroskope



New Discoveries beyond the Diffraction Limit:
Nikon Super-Resolution Microscope Systems

Tuesday, 27.9.2011, 14:00

Location: H7

Klaus Weißhart

Carl Zeiss MicroImaging GmbH



SIM and PALM as Tools to Study the Structural
Organization of Cells

Sponsors

We thank for the kind support by:



Organization

Scientific Steering Committee

Andre Bazzone (stud.), Anja Blessing (stud.), Ulrich Brandt, Klaus Cichutek, Ivan Dikic, Stephanie Dimmeler, Bernd Groner, Tim Hucho, Gabriele Klug, Harald Kolmar, Roland Lill, Hartmut Michel, Volker Müller, Enrico Schleiff, Dirk Schneider, Erin Schuman, Harald Schwalbe, Wagner Steuer-Costa (stud.)

Organization Team

Tino Apel (GBM)
Stephanie Dinkelaker (GBM)
Anke Lischeid (GBM)
Bernd Märtens (CMP)

Robert Tampé (Head of the Scientific Steering Committee and Organization Team)

The meeting is organized in close collaboration between the steering committee, the speakers of all GBM study groups and the GBM.

Meeting Secretariat

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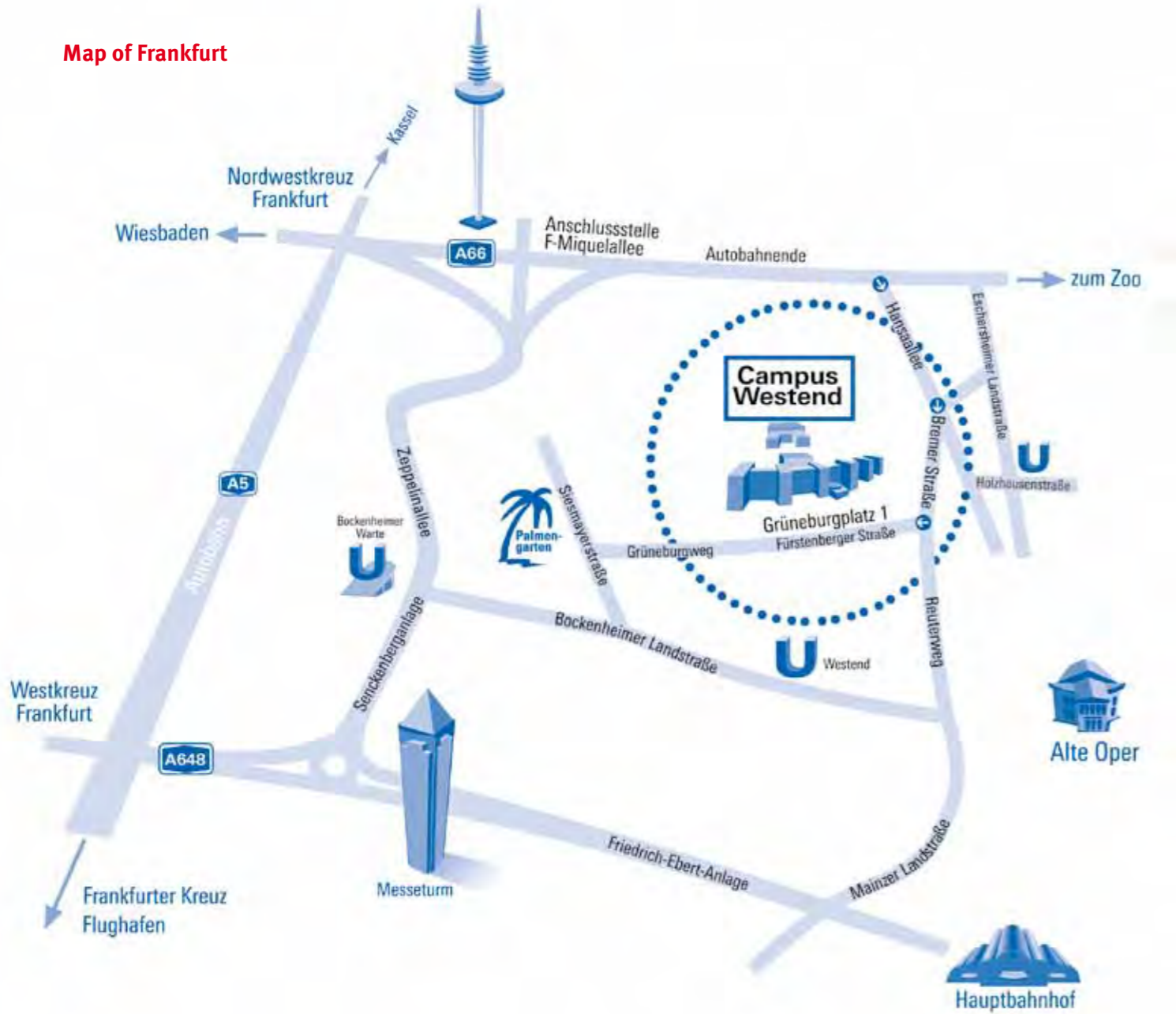
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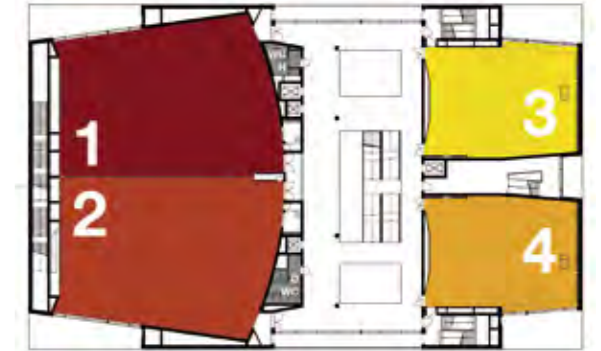
Map of Frankfurt



Map of the area Campus Westend



Schemes Campus Westend



1. Floor | Halls 1-4



2. Floor | Halls 5 & 6



3. Floor | Halls 7-15

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Lined writing area for page 45.



Du suchst lebendige Wissenschaft und willst Kontakt zu Gleichgesinnten? Du suchst Hilfe, die Dich als Student und jungen Wissenschaftler voranbringt?

Dann werde

Jungmitglied in der GBM

Wir bieten

- **Reisekostenzuschüsse für Tagungen der GBM, FEBS & IUBMB**
- **die Junior GBM, in der Studenten Info-Veranstaltungen und wissenschaftliche Vorträge mit eigenem Budget organisieren**
- **wissenschaftliche Netzwerke, z.B. die Studiengruppen der GBM**
- **FEBS-Stipendien**
- **Nachwuchspreise für Masterstudenten und Promovierende**
- **die Zeitschriften BIOSpektrum & Biological Chemistry**
- **den Arbeitskreis „Studium Molekulare Biowissenschaften“, der über Studiengänge informiert**





See you next time - Molecular Life Sciences 2013