



Molecular
Life Sciences

Molecular Life Sciences

2013

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



3.-6. Oct. 2013

Campus Westend
Goethe University
Frankfurt a. M. • Germany

www.molecular-life-sciences.de



PROGRAMME

85. MOSBACHER KOLLOQUIUM

CELLULAR PROTEIN QUALITY CONTROL IN HEALTH, AGING AND DISEASE

MARCH 27 - 29, 2014 / MOSBACH

Molecular Chaperones and Protein Folding

- :: Chris Dobson (Cambridge, UK)
- :: Bernd Bukau (Heidelberg, DE)
- :: Judith Frydman (Stanford, US)
- :: David Agard (San Francisco, US)
- :: Elke Deuerling (Konstanz, DE)

Organization

- :: Johannes Buchner (München, DE)
- :: Franz-Ulrich Hartl (München, DE)

Ribosomes and the Mechanism of Translation

- :: Marina Rodnina (Göttingen, DE)
- :: Roland Beckmann (München, DE)
- :: Rachel Green (Baltimore, US)

Assembly of Complex Macromolecular Machines

- :: Manajit Hayer-Hartl (München, DE)
- :: Ed Hurt (Heidelberg, DE)
- :: Reinhard Lührmann (Göttingen, DE)
- :: Kaz Nagata (Kyoto, JP)

Proteostasis, Cell Stress and Aging

- :: Linda Partridge (Köln, DE)
- :: Hideki Taguchi (Tokyo, JP)
- :: Klaus Richter (München, DE)
- :: Andrew Dillin (La Jolla, US)

Misfolding and Disease

- :: Jeff Brodsky (Pittsburgh, US)
- :: Jeff Kelly (La Jolla, US)
- :: Anne Bertolotti (Cambridge, UK)
- :: Linda Hendershot (Memphis, US)

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Venue

Goethe University Frankfurt
Campus Westend
Grüneburgplatz 1
60323 Frankfurt a. M. (DE)

Date

3.–6. Oct. 2013

Homepage

www.molecular-life-sciences.de

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Buchner, Johannes (Garching/DE)	Knauer, Shirley (Essen/DE)
Einsle, Oliver (Freiburg/DE)	Koch, Ina (Frankfurt a. M./DE)
Giehl, Klaudia (Giessen/DE)	Rehling, Peter (Göttingen/DE)
Hell, Rüdiger (Heidelberg/DE)	Schneider, Dirk (Mainz/DE)
Helm, Mark (Mainz/DE)	Schuchardt, Sven (Hannover/DE)
Herrmann, Johannes (Kaiserslautern/DE)	Seidel, Claus (Düsseldorf/DE)
Heumann, Rolf (Bochum/DE)	Sterner, Reinhard (Regensburg/DE)
Hopfner, Karl-Peter (Munich/DE)	Villmann, Carmen (Würzburg/DE)
Horstkorte, Rüdiger (Halle, Saale/DE)	

Scientific Committee – Pecha Kucha Selection

Bramkamp, Marc (Munich/DE)
Herrmann, Johannes (Kaiserslautern/DE)
Hucho, Tim (Cologne/DE)
Pfanner, Nikolaus (Freiburg/DE)
Sinning, Irmgard (Heidelberg/DE)
Tampé, Robert (Frankfurt a. M./DE)

Conference Organisation and Industrial Exhibition

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Dear colleagues

The GBM welcomes all participants to its fall meeting in Frankfurt. We continue with our new tradition to have the meeting at the same venue in Frankfurt to strengthen our corporate identity and establish a prominent recognition factor.



The meeting represents the major aspects of molecular life sciences from a broad range of model systems including plants. Topics covered by distinguished plenary lectures include 'Protein Synthesis and Folding', 'Chemical and Systems Biology', 'Metabolic Sensing', 'Biotechnology' and 'Organelles, Membranes and Lipids'.

The program was compiled in close cooperation with the GBM study groups, which select the newest and ground breaking contributions within their field as inspiring showcase to all participants.

Young group leaders and investigators were especially encouraged and selected to present their newest ideas and most advanced approaches. Furthermore numerous young researchers have been selected from the submitted abstracts and present their latest results in a Pecha Kucha format.

Last but not least we will have several attractive lunch sessions under the slogan "Science and Beyond": Our very active student's Organisation, the Junior GBM, and the GBM workgroup of young scientists will focus on funding opportunities, career prospects and general perspectives for young scientists. On top of that, the post-ersessions offer insights into the latest research, providing also a great opportunity to meet colleagues, friends and coworkers.

We hope that you enjoy the conference and make the most of your stay in Frankfurt.



Jürgen Soll

Registration

Please register online at www.molecular-life-sciences.de.

Registration Fees

<i>Member</i>		<i>Non Member</i>	
Academia*	350 EUR	Academia	425 EUR
PhD students**	85 EUR	PhD student**	110 EUR
Undergraduates**	60 EUR	Undergraduates**	85 EUR
Retiree	160 EUR	Retiree	200 EUR
Industry	475 EUR	Industry	550 EUR

* members of GBM, VAAM, DGZ, DECHEMA

** Proof of status required

Social Evening (incl. dinner and the conference party, 5 October 2013)

Undergraduates, PhD students	20 EUR
Academia, Retiree, Industry	35 EUR

Payment/Confirmation of Payment

The invoice is a valid invoice which may be submitted to the local tax and revenue office. All fees are due upon receipt of invoice/registration confirmation. Payment is also accepted by credit card (Master-/Eurocard, American Express, VISA). Should you transfer your invoice amount within 10 days of the start of the event, please present your transfer remittance slip at the Check-In desk as proof of payment.

General Terms and Conditions

You can find the general terms and conditions on our conference website www.molecular-life-sciences.de.

Parking

There is parking space about 10 minutes away from the venue, by foot.

Adress:

Parkhaus Palmengarten
Siesmayerstrasse 61
60323 Frankfurt a. M. (DE)

Fees:

1 EUR per hour
3 EUR during the period from
19⁰⁰–07⁰⁰

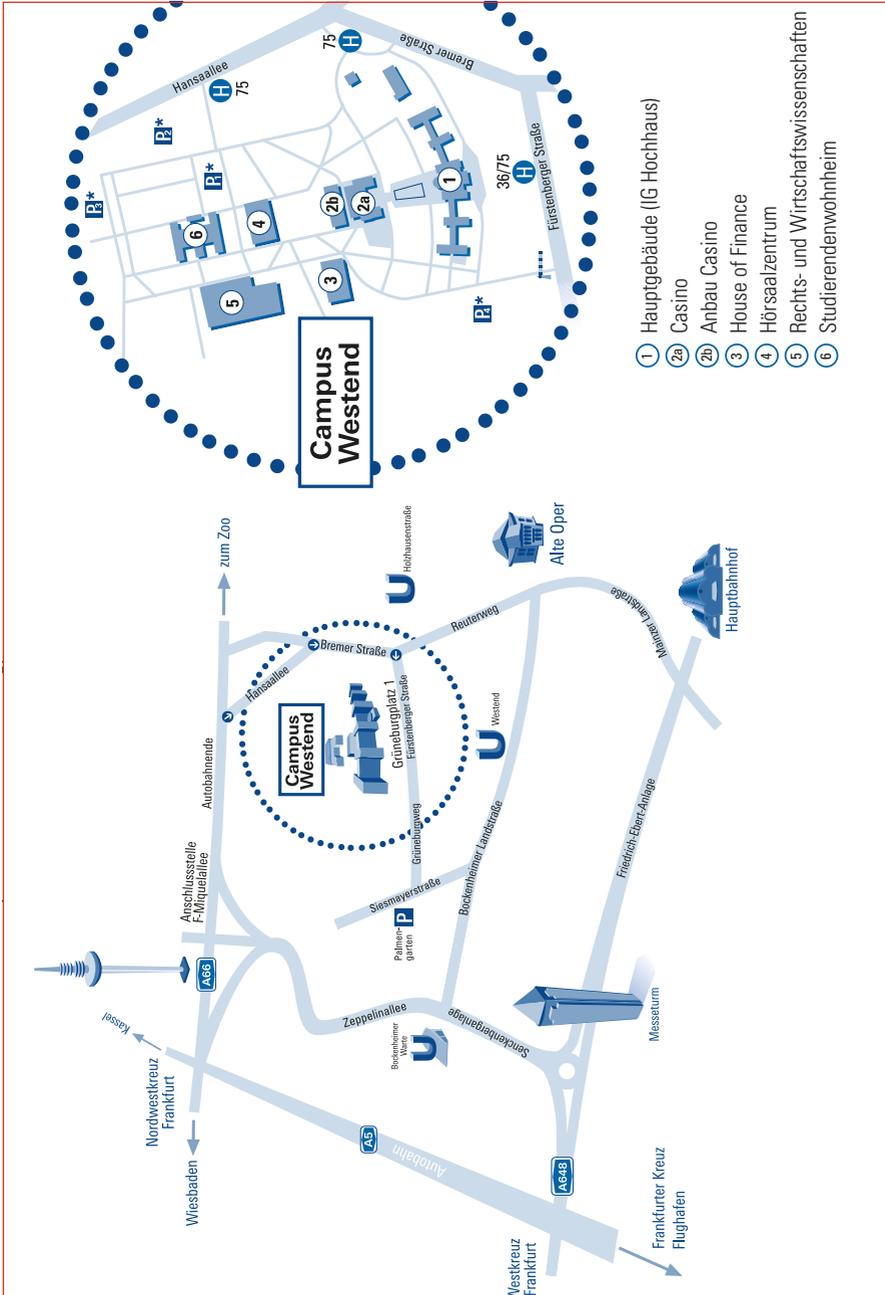
Opening hours:

Daily 09⁰⁰–18⁰⁰

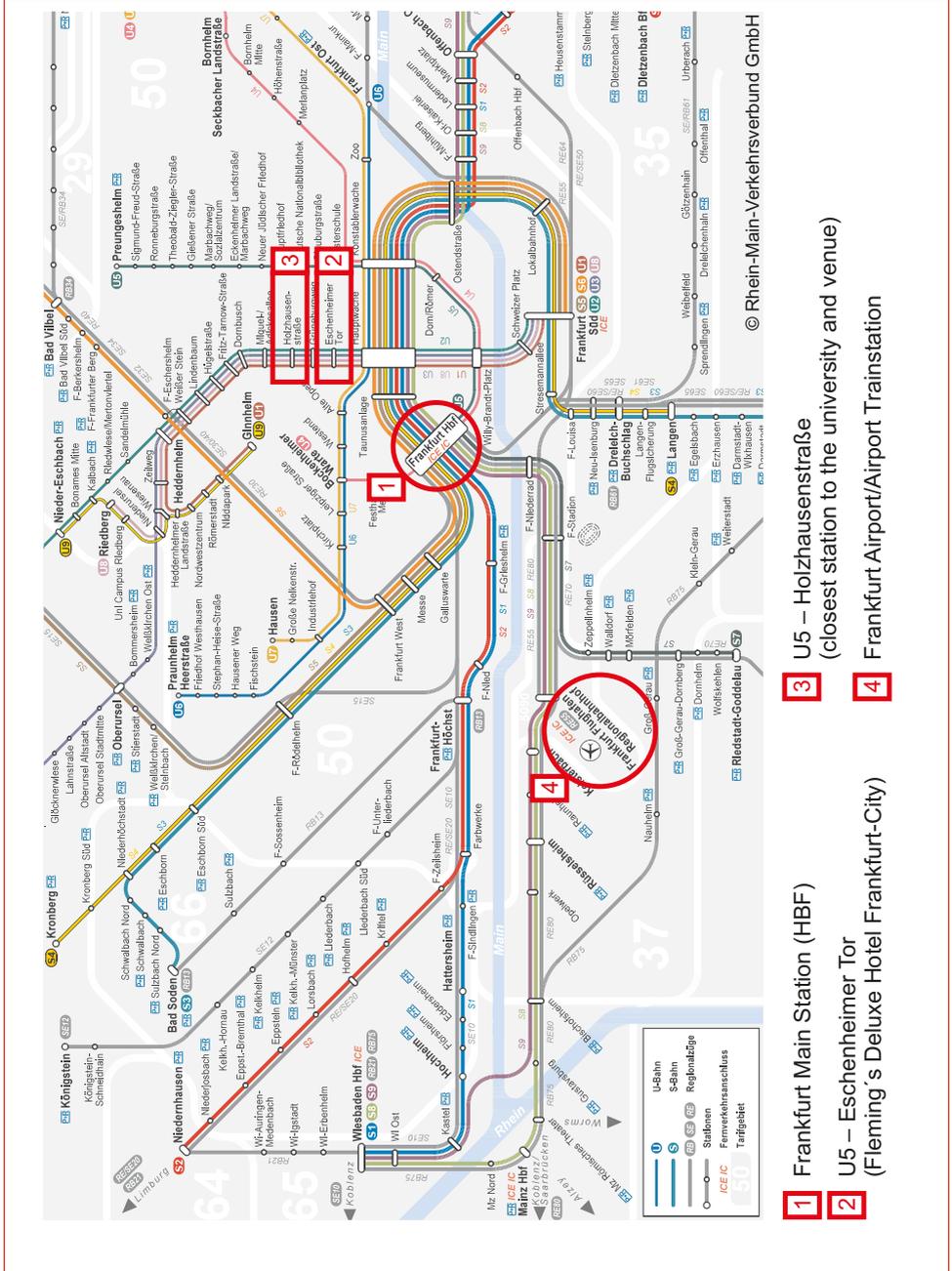
Clearance height

2.1 m

Campus Plan



Public Transportation Network



Opening Hours

	Thursday	Friday	Saturday	Sunday
Industrial Exhibition	13 ³⁰ –22 ^{30*}	08 ³⁰ –20 ⁰⁰	08 ³⁰ –20 ^{00**}	08 ³⁰ –11 ³⁰
Poster Exhibition	19 ⁰⁰ –22 ^{30*}	13 ⁰⁰ –20 ⁰⁰	08 ⁰⁰ –19 ⁰⁰	
Check-In	13 ⁰⁰ –19 ^{30*}	08 ⁰⁰ –19 ⁰⁰	08 ⁰⁰ –19 ^{30**}	08 ⁰⁰ –13 ⁰⁰
Media Check-In	13 ⁰⁰ –19 ⁰⁰	08 ⁰⁰ –18 ³⁰	08 ⁰⁰ –18 ^{30**}	08 ⁰⁰ –12 ³⁰

* includes Get Together

** dinner subsequent to scientific programme

Industrial exhibition

The Molecular Life Sciences 2013 will be accompanied by a specialized industrial exhibition. The exhibitors are looking forward to welcoming you to present their comprehensive range of innovative products. For a detailed layout of the exhibition plan please see page 74.

Certificate of attendance

Certificates of attendance are available on the last day of the congress at the Check-In.

Name tag

Attendants and registered accompanying persons will receive a name tag after registration. Admittance to the congress and industrial exhibition is only allowed for those with a name tag. Name tags should be worn at all times. Name tags for exhibitors will be given to the exhibit personnel.

Evaluation

Please turn in your completed and legible evaluation form to the Check-In on the last day. Thank you for your active participation and constructive criticism.

Wardrobe

The wardrobe is behind the Check-In and free of charge. Please note that no liability is taken for lost or stolen items.

Service for handicapped persons

The premises are suitable for the handicapped.

Internet

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

EDUROAM

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

Eduroam allows students, researchers and staff from participating institutions to obtain internet connectivity across campus and when visiting other participating institutions by simply opening their laptop. Regularly you access via eduroam with the password and username you are using at your host institute/university. Your systems administration will provide information if your institution/university is connected to eduroam or you try it if hear about eduroam the first time and you feel unsure. For detailed information see www.eduroam.org.

FREIFLUG

In case you have no access to eduroam, you will receive access data for this WLAN platform at the registration desk for 1 EUR per access .

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 postersessions.

Three posters will be awarded with 300 EUR each, which will be donated by the GBM. In addition the De Gruyter poster prize, worth 500 EUR, will be rewarded to one contribution.

The poster prizes will be awarded before the Closing Lecture and the Closing Remarks.

Sunday, October 06, 2013 at 11⁴⁵ h.

All poster authors are requested to attend the session. Poster authors can only be awarded in person.

Plenary – Chosen speakers are given the opportunity to devote themselves to a subject in detail, to present and discuss it.

Study Group Session – The current state of a subject area will be presented by chosen speakers and discussed.

Postersession – Abstract authors will have the opportunity to present their posters.

Pecha Kucha Session – Young group leaders and investigators were especially encouraged and selected to present their newest ideas and most advanced approaches. Furthermore numerous young researchers will be selected from the submitted abstracts and present their latest results in a Pecha Kucha format.

Meet the Prof – The event “Meet the Prof” will feature successful speakers from science and research. At this occasion, you’ve got the chance to ask the questions which keep you up at night.

Master/Bachelor Short Talks – In this session Diploma/Master/Bachelor students present their work in a stressless atmosphere. In addition, an open meeting of GBM students takes place.

Career Forum – Opportunities on the job market will be presented, interesting especially for graduates.

DFG Speed-Dating Session – Are you ready for speed-dating? You can choose your speed-dating partners for the topics you are interested in. Each date will take 15 min., a maximum of 4 topics with 4 different experts can be selected.

Creativity in Research: Why, How and When – An interdisciplinary team and alumni of the Hasso-Plattner-Institute School of Design Thinking, is offering a short workshop to explore the power of ideas. They will introduce you to different methods to dig deeper in your brain, sort the resulting ideas and finally transfer them to your research.

Panel Discussion: Promoted, Challenged and Attacked – Challenges of the Daily Scientific Routine – The panel discussion will deal with the traps of the everyday life in science. At least since the prominent scandals about various dissertations, scientists are observed with increasing skepticism. The panel will comment on this and other scientific issues.

Submitting your presentation/technical information

Please prepare your presentation in 4:3 aspect ratio. A presentation notebook with a PDF reader and MS Office PowerPoint 2010/2007 will be provided. The use of personal notebooks is possible upon agreement.

Should you wish to use non-digital equipment, please contact us.

Media Check-In

The speakers preview area is located in the foyer. For submission, please use a USB flash drive, CD or DVD disc and should not be protected with software. You may view and/or edit your presentation.

Please note, that different codes for video and audio can result in problems. So we ask you to visit our speakers preview in time – at least 2 hours before the presentation should begin.

Speaking time

Please prepare your presentation for the allotted amount of time. Chairs and moderators may interrupt in case you overrun your time limit. Speaking time is assigned as follows (speaking + discussion time):

1. Plenary 30 + 10 minutes
2. Parallel Plenary 25 + 5 minutes
3. Main Speaker 20 + 10 minutes
4. Speaker 10/15 + 5 minutes
5. Pecha Kucha 10 minutes

Poster

The postersessions will be held in the industrial exhibition in front of the lecture halls. This postersessions will not be chaired. However, the presenting author gets the chance to present his or her poster to an interested audience. Please be available at your poster during the postersessions.

Requirements for poster

The size of your poster has to be in accordance to DIN format A0 (84,1 cm width x 118,9 cm height) and should not be laminated. Mounting materials will be provided at the poster board on site.

Assembly and disassembly of the posters

All posters may be mounted until 13⁰⁰ on Friday, 4th October 2013 and should not be removed before 19⁰⁰ on Saturday, 5th October 2013. Please dismantle your poster until 6th October 2013, 11³⁰. Posters that are still attached after this date will be removed by the organizer and stored until 15³⁰ at the Check-In. Please adhere to the schedule.

Thursday, October 03, 2013	
Key	Lecture Hall 1
Plenary	15:00–16:45 50 th Anniversary of Otto-Warburg-Medal/Prize Lecture p. 22
Workshop Study Group	17:00–17:15 Opening p. 22
Pecha Kucha Parallel Short Talks	17:15–18:15 Public Lecture (in German) p. 22
"Science and Beyond" Session	18:15–18:30 GBM Communication Award p. 22
Lecture & Awards	18:30–18:55 Karl Lohmann Prize
Postersession	18:55–19:15 GBM PhD Prize
Break	19:15 Get Together at the Posters
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Friday, October 04, 2013

Lecture Hall 1

Lecture Hall 2

09:00–09:40

Plenary Lecture 1
Designing Biological Systems

09:40–10:20

Plenary Lecture 2
Exploring the proteome to understand human biology and disease

10:20–11:00

Plenary Lecture 3
DNA demethylation and repair by Gadd45

Coffee Break

11:30–12:00

Parallel Plenary Lecture 1a
Roles of Pink1 kinase and Parkin E3 ligase in mitophagy and Parkinson's disease

Parallel Plenary Lecture 1b
Transport Machineries in Adaptive Immunity and Viral Immune Evasion

12:00–12:30

Parallel Plenary Lecture 2a
Chaperones for the folding, assembly and activation maintenance of RuBisCO

Parallel Plenary Lecture 2b
Dielectric Heterogeneity in the Hetero-Oligomeric Photosynthetic Cytochrome b6f Complex

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Saturday, October 05, 2013

Lecture Hall 1

Lecture Hall 2

09:00–09:40

Plenary Lecture 4

Molecular networks for enhancing crop productivity

p. 33

09:40–10:20

Plenary Lecture 5

Molecular mechanisms of mitochondrial behavior

p. 33

10:20–11:00

Plenary Lecture 6

Leveraging evolutionary information for protein structure and function production

p. 33

Coffee Break

11:30–12:00

Parallel Plenary Lecture 3a

Modern Concepts in Protein Engineering: from Directed Evolution to in silico Approaches

p. 33

Parallel Plenary Lecture 3b

Development and Manufacturing of Next Generation Biopharmaceuticals

p. 33

12:00–12:30

Parallel Plenary Lecture 4a

Lipid transport and membrane remodeling to build and protect chloroplasts

p. 34

Parallel Plenary Lecture 4b

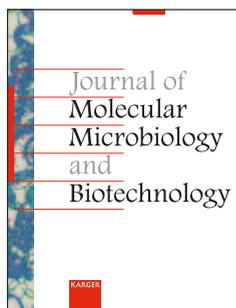
Redox Regulation and Oxidative Stress

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Sunday, October 06, 2013			
Lecture Hall 1	Lecture Hall 3	Lecture Hall 4	Lecture Hall 5
			Lecture Hall 6
		14:30–16:30	
Study Group Session 9 – ROS: Generating complexes and intracellular signaling	Study Group Session 10 – RNA Chemical Biology	Study Group Session 11 – Bioana- lytics and Bioinforma- tics - joint forces to understand cellular networks	Study Group Session 12 – Inte- grating genomics and metabolomics for gene discovery in plants
p. 38	p. 38	p. 38	p. 39
Coffee Break			
11:30–11:45			
Poster Awards			
p. 39			
11:45–12:30			
Closing Lecture			
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End of Conference and Final Remarks			

ANZEIGE Karger

Journal of Molecular Microbiology and Biotechnology



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Invitation for papers

Contributions and ideas from large segments of the scientific community are welcome. Please send to:

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15 ⁰⁰ –16 ⁴⁵ Lecture Hall 1 Chair	50th Anniversary of Otto-Warburg-Medal/Prize Lecture Roger Goody (Dortmund/DE) Words of Welcome: Roger Goody (Dortmund/DE), Enrico Schleiff (Frankfurt/DE) Alfred Wittinghofer (Dortmund/DE), Angelika Lex (München/ DE) Laudatio and Award Lecture: Roger Goody (Dortmund/DE), Randy Schekman (Berkeley, CA/US)
AWV01	Biogenesis and Function of the Autophagosome Randy Schekman (Berkeley, CA/US)
17 ⁰⁰ –17 ¹⁵ Lecture Hall 1	Opening Jürgen Soll (Planegg-Martinsried/DE) Roger Goody (Dortmund/DE)
17 ¹⁵ –18 ¹⁵ Lecture Hall 1 Chair	Public Lecture (in German) Jürgen Soll (Planegg-Martinsried/DE) Roger Goody (Dortmund/DE)
AWV02	60 Jahre DNA-Doppelhelix – Translation eines Naturgesetzes Theo Dingermann (Frankfurt a. M./DE)
18 ¹⁵ –18 ³⁰ Lecture Hall 1 Chair	GBM Communication Award Roger Goody (Dortmund/DE)
Awardee	Junior GBM
18 ³⁰ –18 ⁵⁵ Lecture Hall 1 Chair	Karl Lohmann Prize Roland Lill (Marburg/DE)
AWV04	Mechanism of MicroRNA-Mediated mRNA Decay Jörg Braun (Worcester, MD/US)

18⁵⁵–19¹⁵

GBM PhD Prize

Lecture Hall 1

Chair

Roland Lill (Marburg/DE)

AWV05

Structure, Function and Regulation of the Spliceosomal
Helicase Brr2

Karine dos Santos (Berlin/DE)

from 19¹⁵

Get Together at the Posters (Pretzels and Beer)

50 Years Otto-Warburg-Medal

On October 3rd 2013, the German Society for Biochemistry and Molecular Biology (Gesellschaft für Biochemie und Molekularbiologie, GBM) will award the Otto-Warburg-Medal.

For 50 years the Otto-Warburg-Medal has honored and encouraged pioneering achievements on an international level in the field of fundamental biochemical and molecular biological research. This year Professor Randy Schekman of the University of California, Berkeley, will receive the highest award in Germany for biochemists and molecular biologists.

He will receive the medal as a recognition of his groundbreaking efforts regarding transport operations in eukaryotic cells. GBM and the exclusive prize sponsor Elsevier/BBA are looking forward to present Professor Schekman the Otto-Warburg-Medal in Frankfurt.

50 years of Otto-Warburg-Medal symbolizes 50 years of promoting outstanding scientific excellence. The medal's 50th anniversary emphasizes the importance of excellent scientific research and aims to motivate young researchers to achieve outstanding results.

09 ⁰⁰ –09 ⁴⁰	Plenary 1
Lecture Hall 1	
Chair	Jürgen Alves (Hannover/DE)
PLV01	Designing Biological Systems Pamela Silver (Boston, MA/US)
09 ⁴⁰ –10 ²⁰	Plenary 2
Lecture Hall 1	
Chair	Jürgen Alves (Hannover/DE)
PLV02	Exploring the Human Protein Atlas to study Biology and Disease Mathias Uhlen (Stockholm/SE)
10 ²⁰ –11 ⁰⁰	Plenary 3
Lecture Hall 1	
Chair	Jürgen Alves (Hannover/DE)
PLV03	DNA Demethylation and Repair by Gadd45 Christof Niehrs (Mainz/DE)
11 ⁰⁰ –11 ³⁰	Coffee Break
11 ³⁰ –12 ⁰⁰	Parallel Plenary 1a
Lecture Hall 1	
Chair	Enrico Schleiff (Frankfurt a. M./DE)
	Import and assembly of mitochondrial proteins Nikolaus Pfanner (Freiburg/DE)
11 ³⁰ –12 ⁰⁰	Parallel Plenary 1b
Lecture Hall 2	
Chair	Dirk Schneider (Mainz/DE)
PLV05	Transport Machineries in Adaptive Immunity and Viral Immune Evasion Robert Tampé (Frankfurt a. M./DE)

12 ⁰⁰ –12 ³⁰	Parallel Plenary 2a
Lecture Hall 1	
Chair	Enrico Schleiff (Frankfurt a. M./DE)
PLV06	Chaperones for the Folding, Assembly and Activation Maintenance of RuBisCO Manajit Hayer-Hartl (Martinsried/DE)
12 ⁰⁰ –12 ³⁰	Parallel Plenary 2b
Lecture Hall 2	
Chair	Dirk Schneider (Mainz/DE)
PLV07	Dielectric Heterogeneity in the Hetero-Oligomeric Photosynthetic Cytochrome b6f Complex William A. Cramer (West Lafayette, IN/US)
12 ³⁰ –14 ³⁰	Lunch Break
12 ⁴⁵ –14 ¹⁵	Lunch Session “Science and Beyond” 1
Lecture Hall 5	Junior GBM Session/Students for Students
12 ⁴⁵ –14 ¹⁵	Lunch Session “Science and Beyond” 2
Casino	DFG Speed-Dating Session
Room 1.812	

14 ³⁰ –16 ³⁰ Lecture Hall 3 Chair	Pecha Kucha – Parallel Short Talks – Signaling and Regulation Marc Bramkamp (Munich/DE) Robert Tampé (Frankfurt a. M./DE)
14 ³⁰ PKV01	Optogenetic Control of cGMP Mediated Sensory Transduction Pathways in <i>Caenorhabditis Elegans</i> Jatin Nagpal (Frankfurt a. M./DE)
14 ⁴⁰ PKV02	The Chemoattractant Cluster – Studying GPCR Ligand Binding Properties in a Nutshell Lisa Joedicke (Frankfurt a. M./DE)
14 ⁵⁰ PKV03	Active Wnt Proteins are Secreted on Exosomes Julia Gross (Heidelberg/DE)
15 ⁰⁰ PKV04	Substrate Recognition of SUMO-Targeted Ubiquitin Ligases Gerrit Praefcke (Cologne/DE)
15 ¹⁰ PKV05	The Innate Immune Response to <i>Streptococcus Pneumoniae</i> in the Lung is Influenced by Immunoproteasomes Felicia Kirschner (Berlin/DE)
15 ²⁰ PKV06	Conformational Equilibria in Ras Superfamily Members as Potential Target to Modulate Signalling Activity Michael Spoerner (Regensburg/DE)
15 ³⁰ PKV07	A Lipid E-MAP identifies Ubx2 As Robert Ernst (Frankfurt a. M./DE)
15 ⁴⁰ PKV08	Dictyostelium Roco Proteins to Study LRRK2-Mediated Parkinson Disease Bernd Gilsbach (Groningen/NL)
15 ⁵⁰ PKV09	The Interactome of the Mitochondrial Oxidoreductase Mia40 in Human Cells Carmelina Petrunaro (Kaiserslautern/DE)
16 ⁰⁰ PKV10	Analysis in Phytochrome Hybrids of PhyB from <i>A. Thaliana</i> Silke von Horsten (Marburg/DE)

- 16¹⁰
PKV11 Intercellular Signaling Via Cell Surface Proteins:
Stimulus-Induced Processing and Release of the Extracellular
Nucleotidase, CD73, from Brain and Adipose Tissues in Various
Assembly States
Günther Müller (Garching/DE)
- 16²⁰
PKV12 Structural and Functional Studies on Cp*Rh Derivatives of GPCR
Peptide Ligands
Raphael Stoll (Bochum/DE)
- 14³⁰–16³⁰
Lecture Hall 4 **Pecha Kucha – Parallel Short Talks – Molecules to Organismic
Biology**
Chair Johannes Herrmann (Kaiserslautern/DE)
Tim Hucho (Cologne/DE)
- 14³⁰
PKV13 NOVA – Evaluation of Complexome Profiling Data
Heiko Giese (Frankfurt a. M./DE)
- 14⁴⁰
PKV14 ‘Traceless’ Tracing of Proteins – High-Affinity Trans-Splicing for
Protein Labeling in Living Cells
Markus Braner (Frankfurt a. M./DE)
- 14⁵⁰
PKV15 Tracking the Cellular Fate of siRNA via FRET
Markus Hirsch (Mainz/DE)
- 15⁰⁰
PKV16 From Structure to Function of the Mammalian SRP System
Matthias Becker (Heidelberg/DE)
- 15¹⁰
PKV17 Modification of Self-Organizing Min Surface Waves Through
Protein Engineering
Simon Kretschmer (Martinsried/DE)
- 15²⁰
PKV18 Green Beards, Beer & Candidiasis – Fungal Adhesion & its
Molecular Base
Lars-Oliver Essen (Marburg/DE)
- 15³⁰
PKV19 Supramolecular Organisation of the Respiratory Chain of
Hyperthermophilic Eubacterium Aquifex Aeolicus
Yang Ni (Frankfurt a. M./DE)
- 15⁴⁰
PKV20 Lysine Acetylation – A Novel Regulatory Mechanism for
OXPHOS Assembly and Stability?
Tina Wenz (Cologne/DE)

- 15⁵⁰
PKV21 Cytosolic Peroxidases Protect African Trypanosomes From Lysosomal Oxidative Stress
Corinna Hiller (Heidelberg/DE)
- 16⁰⁰
PKV22 Generation of a Cell Based System to Visualize Epithelial-Mesenchymal Transition (EMT) in Tumor Progression
Julia Maier (Tübingen/DE)
- 16¹⁰
PKV23 The Effect of Hypoxia during Vertebrate Development
Sanjeeva Metikala (Halle, Saale/DE)
- 16²⁰
PKV24 Localization of Amyloid-Beta 1-42 (A β 1-42) Peptide in Cells and their Influence on Mitochondrial Function
Victoria Decker (Darmstadt/DE)
- 14³⁰-16³⁰
Lecture Hall 5
Chair **Pecha Kucha – Parallel Short Talks – Transport and Folding**
Irmgard Sinning (Heidelberg/DE), Nikolaus Pfanner (Freiburg/DE)
- 14³⁰
PKV25 Find Out to Apply – The Hemolysin A Type 1 Secretion System
Christian Schwarz (Düsseldorf/DE)
- 14⁴⁰
PKV26 How to Kill a Mocking Bug
Stefan Raunser (Dortmund/DE)
- 14⁵⁰
PKV27 Flotillins Functionally Organize the Bacterial Membrane
Juri Bach (Martinsried/DE)
- 15⁰⁰
PKV28 Optochemical Biology – In-Situ Receptor Clustering Triggered by Light
Ralph Wieneke (Frankfurt a. M./DE)
- 15¹⁰
PKV29 Identification of New Cargo Proteins that require Clathrin Adaptor Complexes for Intracellular Transport
Jana Zimmermann (Cologne/DE)
- 15²⁰
PKV30 Semisynthetic Lipidated LC3 Protein Mediates Membrane Fusion
Yaowen Wu (Dortmund/DE)
- 15³⁰
PKV31 Analysis of Hsp90-Cofactor Complexes Using Analytical Ultracentrifugation with Fluorescence Detection
Klaus Richter (Garching/DE)

- 15⁴⁰
PKV32 The Nucleo-Mitochondrial GTPase NOA1 is Stimulated by G-Quadruplex Nucleotide Ligands and is a Substrate of the Mitochondrial Matrix Protease ClpXP
Natalie Al-Furoukh (Bad Nauheim/DE)
- 15⁵⁰
PKV33 A Strategy for the Identification of Mitochondrial CLPXP Protease Interactors and Substrates
Fabian Fischer (Frankfurt a. M./DE)
- 16⁰⁰
PKV34 How Does the Mitochondrial IMS Handle and Communicate Misfolding Stress?
Muna Ali (Kaiserslautern/DE)
- 16¹⁰
PKV35 Conformational Flexibility of VDAC and the Influence of Effectors
Barbara Mertins (Marburg/DE)
- 16²⁰
PKV36 Mitochondriotropic Liposomes for Targeted Delivery of Therapeutic tRNAs
Bettina Krieg (Mainz/DE)
- 16³⁰–18⁰⁰ Coffee Break and Postersession I (see page 40)
- 16³⁰–17³⁰
Lecture Hall 7 **Junior GBM Meeting**
- 16³⁰–18⁰⁰
Casino
Raum 1.812 **Kick-off Meeting AK Geschichte der Biochemie**

18 ⁰⁰ –20 ⁰⁰ Lecture Hall 3 Chair	Study Group Session 1 – Chemical Glycobiologie in Health and Disease Lothar Elling (Aachen/DE)
18 ⁰⁰ INV01	C-type Lectin Receptors as Targets for Immune Modulation – From Glycan Arrays to Murine Studies Bernd Lepenies (Potsdam/DE)
18 ³⁰ INV02	Use of Zinc Finger Nuclease Gene Targeting for Functional Glycomics Henrik Clausen (Copenhagen/DK)
19 ⁰⁰ INV03	The Influence of the Intracellular Concentration of Sialic Acid on the Sialylation of Glycoconjugates Kaya Bork (Halle, Saale/DE)
19 ²⁰ GLV01	Biomarker Identification for Medullary Cystic Kidney Disease Type (MCKD1) a Chronic Tubulointerstitial Nephropathy Simon Staubach (Cologne/DE)
19 ⁴⁰ GLV02	Polysialic Acid is Involved During “On/Off Mechanisms” of Seasonal Spermatogenesis Sebastian P. Galuska (Giessen/DE)
18 ⁰⁰ –20 ⁰⁰ Lecture Hall 4 Chair	Study Group Session 2 – Current Challenges and Frontiers in Structural Biology Clemens Steegborn (Bayreuth), Oliver Einsle (Freiburg)
18 ⁰⁰ INV04	Bacterial Life on CO and CO ₂ Holger Dobbek (Berlin/DE)
18 ³⁰ INV05	High-resolution 3D Structure Determination of Dynamic Macromolecular Complexes by Single Particle cryo-EM Holger Stark (Göttingen/DE)
19 ⁰⁰ INV06	Structure Determination from Sparse NMR Data Using CS-Rosetta: Hidden States, Large Proteins, and Automation Oliver Lange (Garching/DE)
19 ²⁰ INV07	Structure and Function of the Amyloid Precursor Protein APP in Alzheimer’s Disease Manuel Than (Jena/DE)

- 19⁴⁰
INV08 Mechanism of Membrane Protein Transport by Chaperones
Sebastian Hiller (Basel/CH)
- 18⁰⁰–20⁰⁰
Lecture Hall 5 Chair **Study Group Session 3 – Dissection and Targeting of Signal Transduction Pathways**
Shirley Knauer (Essen/DE), Karlheinz Friedrich (Jena/DE)
- 18⁰⁰
INV09 Design and Application of Cytokine Receptor-Based Interaction Traps
Jan Tavernier (Ghent/BE)
- 18²⁵
INV10 Chemical Ubiquitination
Huib Ovaa (Amsterdam/NL)
- 18⁵⁰
INV11 Reverse Engineering a Hierarchical Regulatory Network
Reinhold Schäfer (Berlin/DE)
- 19¹⁰
INV12 Allosteric Modulation of Protein Function by Supramolecular Ligands
Thomas Schrader (Essen/DE)
- 19²⁰
INV13 Berberine – New Aspects of an Ancient Remedy
Kai F. Albring (Jena/DE)
- 19³⁵
INV14 Small Molecule Stabilization of 14-3-3 Protein-Protein Interactions:
New Way of Pharmacological Intervention
Christian Ottmann (Eindhoven/NL)

- 18⁰⁰–20⁰⁰
Lecture Hall 6
Chair **Study Group Session 4 – Ras and Rho-GTPases in Polarization and Motility**
Klaudia Giehl (Giessen/DE), Rolf Heumann (Bochum/DE)
- 18⁰⁰
INV15 Atypical Rho GTPases – Roles in Cancer Cell Contraction and Migration
Pontus Aspenström (Stockholm/SE)
- 18³⁰
INV16 Genetic Analysis of Signaling Pathways that Direct the Formation of Axons
Andreas Püschel (Münster/DE)
- 19⁰⁰
INV17 Mechanisms of Neurotransmitter Receptor Clustering at GABAergic Synapses
Theofilos Papadopoulos (Göttingen/DE)
- 19²⁰
GTV01 A Farnesyl Switch Regulates the Dynamic Membrane Binding of Human Guanylate Binding Protein 1
Anke Zienert (Cologne/DE)
- 19⁴⁰
GTV02 Biochemical Modulation of Small GTPases by Legionella Proteins
Aymelt Itzen (Garching/DE)
- 18³⁰–20⁰⁰
Lecture Hall 7 **Meet the Prof**
Junior GBM

09 ⁰⁰ –09 ⁴⁰	Plenary 4
Lecture Hall 1	
Chair	Peter Rehling (Göttingen/DE)
PLV08	Molecular Networks for Enhancing Crop Productivity Dirk Inzé (Ghent/BE)
09 ⁴⁰ –10 ²⁰	Plenary 5
Lecture Hall 1	
Chair	Peter Rehling (Göttingen/DE)
PLV09	Molecular Mechanisms of Mitochondrial Behavior Jodi Nunnari (Davis, CA/US)
10 ²⁰ –11 ⁰⁰	Plenary 6
Lecture Hall 1	
Chair	Peter Rehling (Göttingen/DE)
PLV10	Leveraging Evolutionary Information for Protein Structure and Function Production Johannes Söding (Munich/DE)
11 ⁰⁰ –11 ³⁰	Coffee Break
11 ³⁰ –12 ⁰⁰	Parallel Plenary 3a
Lecture Hall 1	
Chair	Rüdiger Hell (Heidelberg/DE)
PLV11	Modern Concepts in Protein Engineering – From Directed Evolution to in Silico Approaches Uwe T. Bornscheuer (Greifswald/DE)
11 ³⁰ –12 ⁰⁰	Parallel Plenary 3b
Lecture Hall 2	
Chair	Johannes Buchner (Garching/DE)
PLV12	Development and Manufacturing of Next Generation Biopharmaceuticals Rainer Fischer (Aachen/DE)

12 ⁰⁰ –12 ³⁰	Parallel Plenary 4a
Lecture Hall 1	
Chair	Rüdiger Hell (Heidelberg/DE)
PLV13	Lipid transport and Membrane Remodeling to Build and Protect Chloroplasts Christoph Benning (East Lansing, MI/US)
12 ⁰⁰ –12 ³⁰	Parallel Plenary 4b
Lecture Hall 2	
Chair	Johannes Buchner (Garching/DE)
PLV14	Redox Regulation and Oxidative Stress Ursula Jakob (Ann Arbor, MI/US)
12 ³⁰ –14 ³⁰	Lunch Break
12 ⁴⁵ –14 ¹⁵	Lunch Session “Science and Beyond” 3
Lecture Hall 4	Creativity in Research – Why, How and When
12 ⁴⁵ –14 ¹⁵	Lunch Session “Science and Beyond” 4
Lecture Hall 5	Career Forum/Junior GBM Session
12 ⁴⁵ –14 ¹⁵	Lunch Session “Science and Beyond” 5
Lecture Hall 6	Panel Discussion: Promoted, Challenged and Attacked – Challenges of the Daily Scientific Routine/Young Professional Session
14 ³⁰ –16 ³⁰	Study Group Session 5 – Tumorigenesis and Paraneoplastic Syndromes
Lecture Hall 3	
Chair	Carmen Villmann (Würzburg/DE) Alexander Steinle (Frankfurt a. M./DE)
14 ³⁰	Autoimmune and Paraneoplastic Syndromes, Antigens and Mechanisms of Disease
INV18	Josep O. Dalmau (Barcelona/ES)
15 ⁰⁰	Reactivation of Codogenic Human Endogenous Retroviruses in Endometrial Carcinoma and Prestages – Emergence of New Molecular Targets
INV19	Pamela Strissel (Erlangen/DE)

15 ³⁰ INV20	The Role of the Ubiquitin Proteasome System in the Pathogenesis and Therapy of B-Cell Malignancies Vanesa Fernández-Sáiz (Munich/DE)
15 ⁵⁰ INV21	Targeting DNA Repair Pathways for Personalized Cancer Therapy Christian Reinhardt (Cologne/DE)
14 ³⁰ –16 ³⁰ Lecture Hall 4 Chair	Study Group Session 6 – Transport of Molecules Across Biological Membrane Lutz Schmitt (Düsseldorf/DE), Peter Rehling (Göttingen/DE)
14 ³⁰ INV22	Soluble Lipid Bilayer Systems for Structural and Functional Studies of Membrane Proteins Stephen G. Sligar (Urbana, IL/US)
15 ⁰⁰ INV23	SNARE-Mediated Vesicle Fusion at the Synapse Reinhard Jahn (Göttingen/DE)
15 ³⁰ INV24	Building a Channel Into Nuclear Envelope – How Nuclear Pore Complexes Assemble Wolfram Antonin (Tübingen/DE)
15 ⁵⁰ INV25	Vesicle Formation by the COPII Complex Kirsten Bacia (Halle, Saale/DE)
14 ³⁰ –16 ³⁰ Lecture Hall 5 Chair	Study Group Session 7 – Biophysical and Evolutionary Aspects of Protein Engineering Christian Herrmann (Bochum/DE) Reinhard Sterner (Regensburg/DE)
14 ³⁰ INV26	tba Manfred Reetz (Marburg/DE)
15 ⁰⁰ INV27	A Fast Clathrin-Independent Endocytic Mechanism Harvey McMahon (Cambridge/GB)
15 ³⁰ PEV01	A Toolbox of Dihydroxyacetone Dependent Aldolases for Enzymatic C-C Bond Formation Anne Samland (Stuttgart/DE)
15 ⁴⁵ PEV02	Characterization and Application of Novel Naturally Split Inteins . from Metagenomic Sources with Unusual Properties Anna-Lena Bachmann (Münster/DE)

- 16⁰⁰
PEV03 Interfacial Activation of Candida Antarctica Lipase B – Combined Evidence from Experiment and Simulation
Kerstin Blank (Nijmegen/NL)
- 16¹⁵
PEV04 Change in Protein-Ligand Specificity Through Binding Pocket Grafting
Birte Höcker (Tübingen/DE)
- 14³⁰–16³⁰
Lecture Hall 6
Chair **Study Group Session 8 – Translation and Folding**
Karl-Peter Hopfner (Munich/DE)
Johannes Buchner (Garching/DE)
- 14³⁰
INV28 Single Molecule Mechanics of Protein Folding and Interaction
Matthias Rief (Garching/DE)
- 15⁰⁰
INV29 The Ribosome-Bound RAC/Ssb Chaperone System of Yeast Prevents Premature Release of Nascent Chains from Pausing Ribosomes
Sabine Rospert (Freiburg/DE)
- 15³⁰
INV30 Prolyl Isomerization in Protein Folding and its Catalysis
Franz X. Schmid (Bayreuth/DE)
- 15⁵⁰
INV31 Processive Movement and Pausing of Ribosomes During mRNA Translation
Marina Rodnina (Göttingen/DE)
- 16¹⁰
INV32 The Function of the Universally Conserved Translation Elongation Factor EF-P
Daniel N. Wilson (Munich/DE)

- 15³⁰–16⁰⁰ **Meet the Prof**
Lecture Hall 7 Junior GBM Session
- 16³⁰–18⁰⁰ Coffee Break and Postersession II (see page 40)
- 18⁰⁰–18³⁰ **Otto Meyerhof Prize** (sponsored by Boehringer Ingelheim Pharma)
Lecture Hall 1
Chair Johannes Buchner (Garching/DE)
- AWV06 Biogenesis and Functional Architecture of Mitochondrial Membranes
Martin van der Laan (Freiburg/DE)
- 18³⁰–19³⁰ **Fritz Lipmann Lecture**
Lecture Hall 1
Chair Roger Goody (Dortmund/DE)
- AWV07 Arabidopsis Thaliana and its Relatives as Model Systems for the
Study of Evolutionary Questions
Detlef Weigel (Tübingen/DE)
- from 19³⁰ **Social Event/Dinner** (see page 78)

09 ⁰⁰ –11 ⁰⁰ Lecture Hall 3 Chair	Study Group Session 9 – ROS– Generating Complexes and Intracellular Signaling Carola Hunte (Freiburg/DE), Johannes Herrmann (Kaiserslautern/DE)
09 ⁰⁰ INV33	Compartmentation of Thiol-Redox Control in the Eukaryotic Cell Michel B. Toledano (Gif-sur-Yvette/FR)
09 ³⁰ INV34	Mitochondrial Complex I and Redox Signaling Ulrich Brandt (Nijmegen/NL)
10 ⁰⁰ INV35	Reversible Protein S-Thiolation in Mycobacterium Tuberculosis: Structural and Mechanistic Insights into Mycoredoxins Joris Messens (Brussels/BE)
10 ²⁰ INV36	Molecular Mechanisms of Superoxide Production by Cytochrome bc1 Artur Osyczka (Krakow/PL)
10 ⁴⁰ BEV01	The Structure of the Na ⁺ -Translocating NADH – Ubiquinone Oxidoreductase from Vibrio cholerae at 3.7 Å Resolution Guenter Fritz (Freiburg/DE)
09 ⁰⁰ –11 ⁰⁰ Lecture Hall 4 Chair	Study Group Session 10 – RNA Chemical Biology Mark Helm (Mainz/DE)
09 ⁰⁰ INV37	Imaging RNA and RNA Biology Using RNA Mimics of Green Fluorescent Protein Samie Jaffrey (New York, NY/US)
09 ³⁰ INV38	Combining Chemo-Enzymatic Capture and Deep Sequencing in the Search for New Functional RNAs Andres Jäschke (Heidelberg/DE)
10 ⁰⁰ INV39	Functional Nucleic Acids for RNA Ligation and Labeling Claudia Höbartner (Göttingen/DE)
10 ²⁰ INV40	Structure-Guided Discovery of a Novel Aminoglycoside Conjugate Targeting HIV-1 RNA Viral Genome Eric Ennifar (Strasbourg/FR)
10 ⁴⁰ RNV01	Engineered GuideRNA-Dependent Deaminases – A Tool to Reprogram RNA Function Thorsten Stafforst (Tübingen/DE)

- 09⁰⁰–11⁰⁰
Lecture Hall 5
Chair
- Study Group Session 11 – Bioanalytics and Bioinformatics:
Joint Forces to Understand Cellular Networks
Ina Koch (Frankfurt a. M./DE)
- 09⁰⁰
INV41
- Systems Biology Modeling Techniques for Metabolic Networks
Stefan Schuster (Jena/DE)
- 09³⁰
INV42
- Systematic Characterization of Human Platelets in Arterial Vascular Disorders by Quantitative Proteomics
Albert Sickmann (Dortmund/DE)
- 10⁰⁰
INV43
- Mathematical Modeling of Plant Metabolic Processes
Eva Grafahrend-Belau (Gatersleben/DE)
- 09⁰⁰–11⁰⁰
Lecture Hall 6
Chair
- Study Group Session 12 – Integrating Genomics and Metabolomics for Gene Discovery in Plants
Rüdiger Hell (Heidelberg/DE)
- 09⁰⁰
INV44
- Metabolomics-Based Functional Genomics in Plants
Kazuki Saito (Chuo-ku, Chiba/JP)
- 09³⁰
INV45
- Plant Transport Engineering – Exploitation of Transport Processes to Remove Anti Nutritional Compounds
Barbara A. Halkier (Frederiksberg/DK)
- 10⁰⁰
INV46
- Gene Clustering of Plant Secondary Metabolite Pathways
Thilo Winzer (York/GB)
- 10²⁰
INV47
- Multiscale Metabolic Modeling – Dynamic Flux Balance Analysis on a Whole Plant Scale
Björn Junker (Halle, Saale/DE)
- 11⁰⁰–11³⁰
- Coffee Break
- 11³⁰–11⁴⁵
Lecture Hall 1
- Poster Awards
Jürgen Soll (Planegg-Martinsried/DE)
Johannes Buchner (Garching/DE)
- 11⁴⁵–12³⁰
Lecture Hall 1
AWV07
- Closing Lecture
Gene Transcription and Genomic Regulation
Patrick Cramer (Munich/DE)
- 12³⁰–13⁰⁰
Lecture Hall 1
- Final Remarks and End of Conference

Overview

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Redoxbiology (RB) (RBP01-RBP21, PKV09, PKV21)	66
RNA Biochemistry (RN) (RNP01-RNP19, RNV01, PKV15, PKV36)	68
Tumorigenesis and Paraneoplastic Syndromes (TP) (TPP01-TPP07, PKV22)	70

Bioanalytics and Bioinformatics – Joint Forces to Understand Cellular Networks

- AIP01 Lats2 Phosphorylates p21 and Induces Apoptosis in Response to UV Irradiation
H. Suzuki, N. Yabuta, K. Torigata, N. Okada (Suita/JP), Y. Aylon
M. Oren (Rehovot /IL), H. Nojima (Suita/JP)
- AIP02 The Streptomyces Papain Inhibitor from Streptomyces Mobaraensis is Unusually Composed of a Proteinaceous Transglutaminase Substrate and a Small inhibitor Molecule
S. Zindel (Darmstadt/DE), W. Kaman (Rotterdam/NL), S. Fröls
F. Pfeifer (Darmstadt/DE), J. Hays (Rotterdam/NL)
H.-L. Fuchsbauer (Darmstadt/DE)
- AIP03 Identifying genes relevant to Specific Biological Conditions in Time Course Microarray Experiments
N. k. Singh (Rostock/DE), D. Repsilber (Dummerstorf/DE)
V. Liebscher (Greifswald/DE), L. Taher, G. Fuellen (Rostock/DE)
- AIP04 Basic Topological Features for Metabolic Pathway Models
J. Einloft, J. Ackermann, I. Koch (Frankfurt a. M./DE)
- AIP05 Modelling NF- κ B Signal Transduction Using Petri Nets
L. Amstein, N. Schöne, S. Fulda, I. Koch (Frankfurt a. M./DE)
- AIP06 Gene Encoding of β -Galactosidase from Sunn pest Eurygaster Integriceps
S. Seddigh (Varamin/IR), M. Darabi (Tehran/IR)
- AIP07 Tumor Treatment Analysis by Kinetic Cell Models with the EPN-test of Exponential Growth Detects Proliferation Inhibition and Necrosis after Radiotherapy
N. Thomas, B. Karl, P. Tanja, L. Peter, S. Heinz (Mainz/DE)
B. Alberto, L. D. Géraldine (Grenoble/FR)
- AIP08 The interactome of Salmonella Typhimurium and Human Host Cells
F. Grunz, K. Hoffmeier, S. Müller (Frankfurt a. M./DE), A. Westermann
J. Vogel (Würzburg/DE), P. Winter, G. Kahl (Frankfurt a. M./ DE)
- PKV13 NOVA – Evaluation of Complexome Profiling Data
H. Giese, J. Ackermann, I. Wittig, H. Heide (Frankfurt a. M./DE)
U. Brandt (Nijmegen/NL), I. Koch (Frankfurt a. M./DE)

Bioenergetics

- BEP01 Structural and Thermodynamic Characterization of the Cohesin and Dockerin Proteins Complex from Bacterial Celulosome
J. C. Wiggers, N. Torres, W. C. Generoso, H. J. Wiggers
R. C. Garrat, M. V. A. Navarro (Sao Carlos/BR)
- BEP02 The C-Ring Ion-Binding Site of the ATP Synthase from Bacillus Pseudofirmus OF4 is Adapted to Alkaliphilic Cell Physiology
L. Preiss, J. Langer, D. B. Hicks, O. Yildiz (Frankfurt a. M./DE),
J. Liu, T. A. Krulwich (New York, NY/US), T. Meier (Frankfurt a. M./DE)
- BEP03 Biogenesis Factors of Respiratory Chain Complex I
R. Moseler, V. Solotoff, U. Schulte (Düsseldorf/DE)
- BEP04 Isolation and Proteomic Analysis of a Complex I Assembly Intermediate
K. Kmita, K. Zwicker, M. Steger, I. Wittig
V. Zickermann (Frankfurt a. M./DE)
- BEP05 Accessory Subunit NB4M is Essential for the Activity of Complex I From Yarrowia Lipolytica
H. Angerer, M. Mankowska, K. Zwicker, H. Heide
M. Steger (Frankfurt a. M./DE), M. Radermacher (Burlington, VT/US)
U. Brandt (Nijmegen/NL), V. Zickermann (Frankfurt a. M./DE)
- BEP06 The Role of Conserved Active Site Residues in Pentaheme Cytochrome C Nitrite Reductase
M. Kern, S. Hein (Darmstadt/DE), B. Hermann
O. Einsle (Freiburg/DE), J. Simon (Darmstadt/DE)
- BEP07 Molecular Evolution of the Quinol Oxidation Motif of Cytochrome B
W.-C. Kao, C. Hunte (Freiburg/DE)
- BEP08 Structural Characterization of Mitochondrial Complex I
C. Wirth (Freiburg/DE), V. Zickermann (Frankfurt a. M./DE)
U. Brandt (Nijmegen/NL), C. Hunte (Freiburg/DE)
- BEP09 The Structure of the Na⁺-Translocating NADH – Ubiquinone Oxidoreductase from Vibrio Cholerae at 3.7 Å Resolution
M. Casutt (Freiburg/DE), J. Steuber, T. Vorburger (Stuttgart/DE)
K. Diederichs (Konstanz/DE), G. Fritz (Freiburg/DE)

- BEP10 Structural Basis for Redox-Linked Proton Translocation by Mitochondrial Complex I
V. Zickermann (Frankfurt a. M./DE), C. Wirth (Freiburg/DE), H. Nasiri H. Schwalbe (Frankfurt a. M./DE), C. Hunte (Freiburg/DE)
U. Brandt (Nijmegen/NL)
- PKV19 Supramolecular Organisation of the Respiratory Chain of Hyperthermophilic Eubacterium Aquifex Aeolicus
Y. Ni, Y. Gao, I. Wittig, J. Langer, G. Peng, H. Michel (Frankfurt a. M./DE)

Biophysical and Evolutionary Aspects of Protein Engineering

- PEP01 Functional Analysis of Single Amino Acids in the Active Site of a Dandelion (*Taraxacum officinale*) Polyphenol Oxidase Via Site-Directed Mutagenesis
S. M. Prexler, M. E. Dirks-Hofmeister, R. Singh
B. M. Moerschbacher (Münster/DE)
- PEP02 Improvement of Antimicrobial Activity of Lysozyme by the Modification of Polyarginine at the C-Terminus
Y. Tsuchiya (Tsukuba/JP), Y. Hirakawa, I. Ohiso (Hiroshima/JP)
- PEP03 The Evolution of the Tryptophan Synthase Complex is accompanied by a Change in Quaternary Structure
F. Busch, A. Ehrmann, M. Schupfner, P. Seidel, S. Leopoldseder
R. Merkl (Regensburg/DE), O. Mayans (Liverpool/GB)
R. Sterner (Regensburg/DE)
- PEP04 New Bacterial Members in the Geranylgeranylglycerol Phosphate Synthase Family
D. Peterhoff, R. Sterner, P. Babinger (Regensburg/DE)
- PEP05 Tailoring Acetaldehyde Dependent Aldolases for Organic Synthesis
M. Dick, C. Bisterfeld, I. Kullartz, J. Pietruszka (Jülich/DE)
- PEP06 Biophysical Characterization of the Nore1-MST1 SARAH Interaction
S. Brinkmann, C. Herrmann (Bochum/DE)
- PEP07 Engineering of Weak Helper Interactions for High-Efficiency FRET Probes
R. Gruenberg (Montreal/CA), J. Burnier, T. Ferrar, V. Beltran-Sastre
F. Stricher, A. van der Sloot, R. Garcia Olivas, A. Mallabiabarrena
X. Sanjuan, T. Zimmermann, L. Serrano (Barcelona/ES)

- PEP08 (4R)- and (4S)-Fluoroproline in the Conserved cis-Prolyl Peptide Bond of the Thioredoxin Fold – Tertiary Structure Context Dictates Ring Puckering
M. Rubini (Konstanz/DE), M. Schärer (Zurich/CH)
G. Capitani (Villigen/CH), R. Glockshuber (Zurich/CH)
- PEP09 CysTag – An Easy, Traceless and General Method to Label Proteins C-Terminally
J. Matern, H. D. Mootz (Münster/DE)
- PEP10 Comparative Studies on Recombinant Polyphenol Oxidases from Dandelion Correlate Sequence Differences to Substrate Specificities
M. E. Dirks-Hofmeister, R. Singh, C. M. Leufken (Münster/DE)
J. K. Inlow (Terre Haute, IN/US)
B. M. Moerschbacher (Münster/DE)
- PEP11 Effects of Naringin and Dimethyl Sulfoxide (DMSO) on the Thermal Aggregation of Bacillus Amyloliquefaciens Alpha-Amylase
H. H. Shojaee, M. Sabbaghian, M. Vessal
A. Ebrahim-Habibi (Tehran/IR)
- PEP12 Effect of DMSO, Propanol, Isopropanol, Acetone and TFE on Porcine Pancreatic Lipase Aggregation
M. Vaezzadeh, M. Sabbaghian, P. Yaghmaei
A. Ebrahim-Habibi (Tehran/IR)
- PEP13 Light Driven Proton Pumps – What are the Limitations of Directed Transport?
A. Vogt, J. Wietek, P. Hegemann (Berlin/DE)
- PEP14 Therapeutic Enzymes for the Treatment of Leukemia: Autoproteolytic Activation of Human Asparaginase Induced by Free Glycine
M. Konrad, C. S. Karamitros (Göttingen/DE)
- PEP15 Engineering of Chitin Deacetylase Activity from Bacillus Licheniformis DSM13 by Using Different Carbohydrate-Binding Modules
C. Richter, S. Kolkenbrock, S. Fehser
B. M. Moerschbacher (Münster/DE)

- PEP16 Identification and Characterization of *Alternaria Alternata* Chitinase, a Novel Chitinase-Hydrolyzing Enzyme with a Specific Pattern of Activity
J. Beneteau, S. Cord-Landwehr, M. Kohlhoff, S. Chachra
N. El Gueddari, B. Moerschbacher (Münster/DE)
- PEP17 Mutations in a Hydrophobic Cluster in Human Guanylate Binding Protein 1 (hGBP1) Induces Striking Differences in Enzymatic Activity and Intramolecular Arrangement
S. Ince, C. Herrmann (Bochum/DE)
- PEV01 A Toolbox of Dihydroxyacetone Dependent Aldolases for Enzymatic C-C Bond Formation
A. Samland, S. Schneider, L. Stellmacher (Stuttgart/DE), M. Rale
W.-D. Fessner (Darmstadt/DE), G. Sprenger (Stuttgart/DE)
- PEV02 Characterization and Application of Novel Naturally Split Inteins from Metagenomic Sources with Unusual Properties
A.-L. Bachmann, H. D. Mootz (Münster/DE)
- PEV03 Interfacial Activation of *Candida Antarctica* Lipase B – Combined Evidence from Experiment and Simulation
T. Zisis, P. Turunen (Nijmegen/NL)
P. Freddolino (New York, NY/US)
A. E. Rowan, K. Blank (Nijmegen/NL)
- PEV04 Change in Protein-Ligand Specificity through Binding Pocket Grafting
U. Scheib, S. Shanmugaratnam, J. A. Farias-Rico
B. Höcker (Tübingen/DE)

Cellular Biology of Metabolism

- MBP01 Arsenate Stimulates Mrp1-Mediated GSH Export from Neurons
M. C. Hohnholt, R. Dringen (Bremen/DE)
- MBP02 1-O-Acylceramides are Natural Components of Human and Mouse Epidermis
R. Sandhoff, M. Rabionet, A. Bayerle (Heidelberg/DE)
C. Marsching (Mannheim/DE), R. Jennemann
H. Gröne (Heidelberg/DE), Y. Yildiz (Bregenz/AT)
D. Wachten (Bonn/DE), W. Shaw (Alabaster, AL/US)
J. Shayman (Ann Arbor, MI/US)

- MBP03 Optimization of Cultural Conditions for Biosynthesis, Partial Purification and Characterization of Invertase from *Aspergillus* Species Using Potato and Carrot Peels as Agro Waste
Z.-E.-H. Bilal, H. Asharf, I. Siddique (Lahore/PK)
- MBP04 TLR4 Plays a Central Role in Mac-1-Mediated Monocyte Adhesion to Endothelial Cells Via 5-Lipoxygenase Expression
E. K. Choj, S. J. Lee, K. W. Seo, J. U. Bae, Y. H. Kim
C. D. Kim (Yongsan/KR)
- MBP05 5-Lipoxygenase Plays a Pivotal Role in Endothelial Adhesion of Monocytes Via an Increased Expression of Mac-1
S. J. Lee, E. K. Choj, K. W. Seo, J. U. Bae, Y. H. Kim
C. D. Kim (Yongsan/KR)
- MBP06 Role of AtETHE1 in Amino Acid Catabolism During Leaf Senescence and Seed Development in *Arabidopsis thaliana*
T. Hildebrandt, L. Krüßel, J. Junemann, H.-P. Braun (Hannover/DE)
- MBP07 Nuclear Sequestration of PI4KII α by Oncogenic Transcription Factors Leads to ERK1/2 Inactivation.
M. Frech, J. Männich, E. Puccetti (Marburg/DE)
- MBP08 Sulfation Pathways in Health and Disease
J. W. Mueller (Birmingham/GB)
- MBP09 Biocontrol of Phytopathogenic Bacteria by the Use of Plant Extracts of *Solanum nigrum* L.
U. Bashir (Lahore/PK)
- PKV20 Lysine Acetylation – A Novel Regulatory Mechanism for OXPHOS Assembly and Stability?
A. Hofer, A. DiDomenico, C. Tischner (Cologne/DE), L. Finley
M. Haigis (Boston, MA/US), T. Wenz (Cologne/DE)

Current Trends and Developments in Structural Analysis of Biological Macromolecules

- SAP01 DNA-Lipid Recognitions – from Protocell Evolution to Bionanotherapy
E. Suleymanoglu (Ankara/TR)

- SAP02 High Molecular Weight Macromolecule from Hyuganatsu Extracts Differentiates 3T3 Fibroblast Cells to Osteoblast through BMP Dependent MAP Kinase Pathway
H. Madhyastha, M. Yamaguchi, H. Hiroko, T. Ikenoue
H. Sameshima (Miyazaki/JP)
- SAP03 A New FRET-Sensor to Unravel Conformational Changes in Nonribosomal Peptide Synthetases (NRPS)
J. Alfermann, H. D. Mootz (Münster/DE)
- SAP04 Enhanced Bactericidal Effect of Enterocin A in Combination with Thyme Essential Oils Against *L. Monocytogenes* and *E. Coli* O157:H7
T. Ghrairi, H. Khaled (Sousse/TN)
- SAP05 Selective Activators Release the Autoinhibitory Mechanism of Protein Phosphatase 5
V. Haslbeck, M. Sattler, M. Groll (Garching/DE)
F. Striggow (Magdeburg/DE), K. Richter (Garching/DE)
- SAP06 D1054.3 a SGT1 Homologue of *C. Elegans* Lacking the TPR Domain
J. Eckl, M.-K. von Wrisberg, K. Richter (Garching/DE)
- SAP07 Structural and Functional Characterization of PTHR2
M. Henze, A. Hoffmann, S. Pfeifer, R. Rudolph
J. Balbach (Halle, Saale/DE)
- SAP08 De novo Protein Structure Prediction of the Transmembrane Domain TMD0 of TAP
K. Reichel, L. Schaefer (Frankfurt a. M./DE)
- SAP09 FRET-based Determination of the Degree of Acetylation of Chitosan
T. Weikert, B. Moerschbacher, S. Kolkenbrock (Münster/DE)
- SAP10 Structural Studies Elucidate Specificity Determinants of Furin Beyond the S4 Pocket
S. O. Dahms (Jena/DE), T. Steinmetzer (Marburg/DE)
H. Brandstetter (Salzburg/AT), M. E. Than (Jena/DE)
- SAP11 The Three-Domain Structure of Plant Polyphenol Oxidases. Functional Insights Using a Domain Swapping Approach
C. M. Leufken, M. E. Dirks-Hofmeister
B. M. Moerschbacher (Münster/DE)

SAP12 Spectroscopic Analysis and Identification of Unlabeled ALPHASYN from CSF as a Proteomic Application in the Early Diagnosis of Parkinson's Disease
W. Bohr, P. Wang (Ulm/DE)

SAP13 Structural Studies on Eukaryotic 6-Phosphofructokinases
M. Kloos, B. Küttner, A. Brüser, J. Kirchberger, T. Schöneberg
N. Sträter (Leipzig/DE)

PKV26 How to Kill a Mocking Bug
C. Gatsogiannis, D. Meusch, R. Efremov (Dortmund/DE)
A. Lang (Freiburg/DE), O. Hofnagel, I. Vetter (Dortmund/DE)
R. Benz (Bremen/DE), K. Aktories (Freiburg/DE)
S. Raunser (Dortmund/DE)

PKV31 Analysis of Hsp90-Cofactor Complexes Using Analytical Ultracentrifugation with Fluorescence Detection
V. Haslbeck, J. Eckl, J. Li, K. Richter (Garching/DE)

Dissection and Targeting of Signal Transduction Pathways

STP01 The Other Way Round – How to Use High throughput Human Monoclonal Antibody Generation to Identify Drug Targets in Signal Transduction Pathways
S. Dübel (Braunschweig/DE)

STP02 Dissecting Nucleo-Cytoplasmic Transport by Exploiting Natural Products
V. Fetz, E. Thines, D. Docter (Mainz/DE), E. Schröder (Essen/DE)
A. Hahlbrock (Mainz/DE), S. K. Knauer (Essen/DE)
R. H. Stauber (Mainz/DE)

STP03 Cell-Free Expression of GPCRs as New Platform for Ligand Screening
D. Proverbio (Frankfurt a. M./DE)

STP04 The EGF Receptor in Cholinergic Signaling of Human Keratinocytes
W. Ockenga, S. Bocksberger, A. Banning, R. Tikkanen (Giessen/DE)

STP05 A Role for Flotillins in Cell-Cell Adhesion
F. Debus, N. Kurrle (Giessen/DE), R. Eming, M. Hertl (Marburg/DE)
A. Banning, R. Tikkanen (Giessen/DE)

- STP06 Pain Modulators Regulate the Dynamics of PKA-RII Phosphorylation in Subgroups of Sensory Neurons
J. Isensee (Cologne/DE), M. Diskar (Kassel/DE)
S. Waldherr (Magdeburg/DE), R. Buschow (Cologne/DE)
J. Hasenauer (Munich/DE), A. Prinz, F. W. Herberg (Kassel/DE)
T. Hucho (Cologne/DE), F. W. Herberg (Kassel/DE)
- STP07 Calcium Dependent Processes in Plant Mitochondria
N. Parvin, F. Chigri, U. C. Vothknecht (Martinsried-Planegg/DE)
- STP08 Is the Ecto-5'-Nucleotidase CD73 a Suitable Mesenchymal Stem Cell Marker?
D. Gueneri, Y. Zhang, C. Kaebisch, A. Pansky, E. Tobiasch (Rheinbach/DE)
- STP09 NLRC5 Controls Basal MHC Class I Gene Expression in an MHC Enhanceosome-Dependent Manner
A. Neerincx (Cologne/DE), G. Rodriguez, V. Steimle (Sherbrooke/CA)
T. Kufer (Cologne/DE)
- STP10 Upregulation of Growth Associated Genes and Increased Basal Activity of Mitogen Activatedprotein Kinase Pathway in Flotillin-2 Knockout Mice
A. Banning (Giessen/DE), C. Regenbrecht (Berlin/DE)
R. Tikkanen (Giessen/DE)
- STP11 Regulation of Immediate-Early Gene Transcription Following Activation of Gαq-Coupled Designer Receptors
A. Kaufmann (Homburg/DE)
- STP12 High Content Screening Microscopy Based Analysis of Endogenous Signaling Kinetics Suggests Strong Differences in Regulation Between Primary Neurons and Glia
A. Garza Carbajal, T. Hucho (Cologne/DE)
- STP13 Investigation of the G Protein Signaling in the Prototypic aGPCR Latrophilin
A. Müller, T. Schöneberg, S. Prömel (Leipzig/DE)
- STP14 Cerulein-Induced Egr-1 Expression in Pancreatic Cancer Cells Requires a Rise in Intracellular Ca₂₊ and the Activation of the PKC, Raf, ERK and Ternary Complex Factors
A. Kaufmann (Homburg/DE)

- STP15 Identification and Characterization of a Novel Interacting Partner of LRRK2
P. Athanasopoulos, W. Jacob, R. Heumann (Bochum/DE)
- STP16 Dehydroepiandrosterone Sulfate Mediates Activation of Transcription Factors CREB and ATF-1 via a Ga11-Coupled Receptor in the Spermatogenic cell line GC-2
M. Shihan, U. Kirch, G. Scheiner-Bobis (Giessen/DE)
- STP17 AMPK-Independent Anti-Angiogenic and Endothelial Barrier Stabilizing Effects of AMPK Inhibitor Compound C
M. Aslam, S. Rohrbach, C. Hamm, D. Gündüz (Giessen/DE)
- PKV01 Optogenetic Control of cGMP Mediated Sensory Transduction Pathways in Caenorhabditis Elegans
J. Nagpal, W. Steuer-Costa (Frankfurt a. M./DE)
G. Nagel (Würzburg/DE), A. Gottschalk (Frankfurt a. M./DE)
- PKV03 Active Wnt Proteins are Secreted on Exosomes
J. Gross, V. Chaudhary (Heidelberg/DE)
K. Bartscherer (Münster/DE), M. Boutros (Heidelberg/DE)
- PKV04 Substrate Recognition of SUMO-Targeted Ubiquitin Ligases
K. Meyer-Teschendorf, A. M. Sriramachandran, K. Keusekotten
V. N. Bade, K. Fischer-Schrader, A. Krause, G. Schwarz
K. Hofmann, R. J. Dohmen, G. J. Praefcke (Cologne/DE)
- PKV10 Analysis in Phytochrome Hybrids of PhyB from A.Thaliana
S. von Horsten, L.-O. Essen (Marburg/DE)
- PKV34 How Does the Mitochondrial IMS Handle and Communicate Misfolding Stress?
M. Ali (Kaiserslautern/DE)

Free Topic

- FTP02 Identification of Probiotic Properties of Iranian Native Bacillus, Isolated from Poultry Farms of Arak
Y. Abdolvand, S. D. Kheirkhah Hosseini (Malayer/IR)
- FTP03 Surface Plasmon Resonance imaging and Fluorescence Spectroscopy Solutions to explore Molecular Interactions
C. Schuhmacher (Bensheim/DE)
- FTP04 The Relationship Between Antioxidant and Anti-ulcer Activity in Saudi Honey Samples Harvested from Various Regions in Different Seasons
N. Al-Jaber (Alriyadh/SA)
- FTP05 In Vitro Regenerative Tubulogenesis Using a Novel Adult Stem Cell Culture Model System
A. Rahmo (Damascus/SY)
- FTP06 Angiotensinogen (AGT) Gene, M268T Polymorphism in Coexistent Diabetes, Hypertension and Nephropathy
S. M. Shahid, R. Shaikh, S. N. Nawab (Karachi/PK)
M. Ismail (Islamabad/PK), A. Azhar (Karachi/PK)
- FTP07 Phytochemical Analysis and Antioxidant Activity of Marrubium Vulgare L. from Iran
K. Yousefi, D. Hodaie, A. Garjani, S. Hamedeyazdan
N. Maleki-Dizaji, F. Fathiazad (Tabriz/IR)
- FTP08 Towards White Biotechnology by Exploring of Industrial Enzymes From The Metagenome of Hydrothermal Vent Microbes at Kawio Island – Indonesia
E. Restiawaty (Bandung/ID)
- FTP09 Comparison of DNA Extraction Methods from Cocoa Leaves and Cocoa Beans
T. V. H. Lam, K. Dewettinck, K. Messens (Gent/BE)
- FTP10 Changes in Mitochondrial Respiratory Chain Complexes Associated with Age, Calorie Restriction and Age-Dependent Diseases
M. Kratochwil, K. Kuter (Darmstadt/DE), K. Ossowska (Kraków/PL)
S. Goto (Inbamura/JP), M. D. Sugawa
N. A. Dencher (Darmstadt/DE)

- FTP11 Distinct Affinities of Human Histone Deacetylase 8 for Mono-Acetylated Histones
P. Haus, C. Meyners, J. Brod, K. Knobloch
F.-J. Meyer-Almes (Darmstadt/DE)
- FTP12 Differences in Protein Expression and Protein Activities in Mitochondria of OLN-93 Cells After Irradiation with X-Ray
L. Cavlovic, M. Muschol, C. Kern, N. A. Dencher (Darmstadt/DE)
- FTP13 Genetic Evidence for a Role of the MLL3/MLL4 Histone H3K4 Methyltransferase Complexes in Bipolar Disorder
D. Kofink (Utrecht/NL), B. P. F. Rutten (Maastricht/NL)
M. J. Kas (Utrecht/NL), R. Schmidt-Kastner (Maastricht/NL)
P. de Graaf, R. Ophoff (Utrecht/NL), J. van Os (Maastricht/NL)
R. S. Kahn, H. T. M. Timmer (Utrecht/NL)
- FTP14 Autophagy – Pro-Survival Mechanism With Impact on Aging and Development in the Filamentous Fungus *P. Anserina*
L. Knuppertz, A. Hamann, F. Pampaloni
H. D. Osiewacz (Frankfurt /DE)
- FTP15 A FRET-Based Competition Assay Suitable for Thermodynamic Characterisation of Histone Deacetylase Inhibitors
C. Meyners (Darmstadt/DE), M. G. J. Baud
M. J. Fuchter (London/GB), F.-J. Meyer-Almes (Darmstadt/DE)
- FTP16 Modification of Human Trypsinogen Reduces Autoactivation
K. Buettner, N. Sträter, T. Zuchner (Leipzig/DE)
- FTP17 Bioproduction of Prostaglandins in Recombinant *E. Coli* Cells
J. C. Guder, M. Buchhaupt, J. Schrader (Frankfurt a. M./DE)
- FTP18 Structural and Functional Investigation of the Phosphopantetheinylation Reaction in Nonribosomal Peptide Synthetases from *Bacillus*
P. Tufar, S. Rahighi (Frankfurt a. M./DE), F. I. Kraas (Marburg/DE)
D. K. Kirchner, F. Löhr, E. Henrich, I. Dikic
P. Güntert (Frankfurt a. M./DE), M. A. Marahiel (Marburg/DE)
V. Dötsch (Frankfurt a. M./DE)

- FTP19 Functional and Structural Characterization of the p63 Isoforms TA*p63 α AND gtap63 α
C. Osterburg, J. Gebel, G. B. Deutsch, D. Coutandin, L. M. Luh
B. Schäfer, V. Dötsch (Frankfurt a. M./DE)
- FTP20 Influence of External Factors to Mitochondrial Respiratory Chain Complexes and Chloroplast Proteins of Chlamydomonas Reinhardtii and Characterisation of the Chloroplast-ATP-Synthase from Spinacea Oleracea
S.-H. Marx, O. Ankudin, N. A. Dencher (Darmstadt/DE)
- FTP21 Dynamics of Tissue Specific Localisation of Human Histone Deacetylase 8 fused to the Photoswitchable Protein mOrange
M. Schneider, P. Haus, L. Höfle, F.-J. Meyer-Almes (Darmstadt/DE)
- FTP22 Structure and Functional Aspects of Rhodobacter Sphaeroides Cryptochrome B
Y. Geisselbrecht, C. Schroeder (Marburg/DE)
S. Frühwirth (Giessen/DE), A. Pierik (Marburg/DE)
G. Klug (Giessen/DE), L.-O. Essen (Marburg/DE)
- FTP23 N α -Terminal Protein Acetylation by NatA is Essential in Arabidopsis and Confers Tolerance to Drought
E. Linster, I. Stephan, M. Huber (Heidelberg/DE)
T. Arnesen (Bergen/NO), R. Hell, M. Wirtz (Heidelberg/DE)
- FTP24 Significance of N α -Acetyltransferase B During Plant Development and Stress
M. Huber, E. Linster, I. Stephan, R. Hell, M. Wirtz (Heidelberg/DE)
- FTP25 Insight Into the Hetero-Oligomeric Interaction of Δ Np63 α and TAp73 by Structural and Functional Analysis
J. Gebel, L. Laura, F. Löhr, D. Kirchner, D. Coutandin, S. Kehrlöber
B. Schäfer, P. Güntert, V. Dötsch (Frankfurt a. M./DE)
- FTP26 Analysis of p63 Mediated Oocyte Regulation Upon γ -Irradiation Induced DNA Damage
L. Luh, E. Zielonka, G. Deutsch, S. Kehrlöber (Frankfurt a. M./DE)
E. Kouwenhoven, J. Goldmann, J. Zouh
H. van Bokhoven (Nijmegen/NL), V. Dötsch (Frankfurt a. M./DE)

- FTP27 Purification and Kinetic Studies of Pectinases from *Aspergillus Niger* Isolated from Hot Water Sources
K. Poturcu, İ. Özmen (Isparta/TR)
- FTP28 Role of Microvesicle-Associated CD30 in the Crosstalk Between CD30+ Hodgkin Cells and CD30L+ Cells in the Lymphoma Microenvironment
M. Dams, H. Hansen, H. Engels, G. Schön (Cologne/DE)
F. Quondamatteo (Galway/IE), H. Dürkop (Berlin/DE)
E. Pogge von Strandmann (Cologne/DE), R. Schubert (Freiburg/DE)
- FTP29 Purification of Pectin Lyase and Determination of Molecular Weight
K. Poturcu, İ. Özmen (Isparta/TR)
- FTP30 Pectinolytic Enzyme Production by *Aspergillus Niger* Isolated from Hot-Water and Evaluation of Metal Ions Effect on Enzyme Activity
K. Poturcu, İ. Özmen (Isparta/TR)
- FTP31 Highly Retarded Thermal Cis-to-Trans Relaxation of an Azobenzene-based Photoswitch Enables Photocontrol of the Enzyme Activity of a Histone Deacetylase-like Amidohydrolase from *Bordetella/Alcaligenes* Strain FB188 by a Single Light Pulse
M. Korbus, G. Balasubramanian, F. Müller-Plathe, H. Kolmar
F.-J. Meyer-Almes (Darmstadt/DE)
- FTP32 Identification of Threonine and Tyrosine Residues Important for Human P2X4 Receptor Activity by Site-Directed Mutagenesis
A. Cheffer, H. Ulrich (São Paulo/BR)
- FTP33 Milk Adulteration – Problems and Remedies
A. Pipaleshwar (Durgapur/IN)
- FTP34 Functional Analysis of Dopaminergic Reprogramming Factors Designed for Protein Transduction in Neural Reprogramming
S. Neumann, N. Treuter, D. Paliga, F. Raudzus, C. Rolfes
H. Schöneborn, K. Chakrabarty, R. Heumann (Bochum/DE)
- FTP35 Preparation and Characterization of Gadolinium-loaded PLGA Nanoparticles as Magnetic Contrast Agents for Diagnosis of Hepatocellular Carcinoma
W. Watcharin, C. Schmithals, A. Piiper (Frankfurt a. M./DE)
S. Gelperina (Moscow/RU), J. Kreuter (Frankfurt a. M./DE)

- FTP36 Spontaneous Chromosomal Instability Related to Aging and Gender
A. Hedrih (Novi Pazar/RS), O. Milosevic-Djordjevic (Kragujevac/RS)
S. Najman, S. Stojanovic (Nis/RS)
- FTP37 Haldane's Substrate Inhibition Model – A Reinterpretation as a
Stochastic Service-Interrupting System
M. Jobmann (Garching/DE), P. Kühl (Munichstein BL/CH)
- FTP38 Quantitative Proteome Profile of Astrocyte Reprogramming to
Neurons
H. Schöneborn (Bochum/DE), S. Islam (Munich/DE)
C. Rolfes (Bochum/DE), M. Krüger (Bad Nauheim/DE)
H. Heumann (Munich/DE), R. Heumann
K. Chakrabarty (Bochum/DE)
- FTP39 Bioactive Flavonoid Pigments from Yemeni Dragon's Blood with
Therapeutic Effects
M. Masaoud (YE), A. Alqadasi (YE), A. Porzel,
J. Schmidt (Halle, Saale/DE)
- FTP40 Development of an Enzymatic In Vivo Redox Cascade for
Asymmetric Synthesis
N. Oberleitner (Vienna/AT), C. Peters, J. Muschiol, M. Kadow
S. Saß (Greifswald/DE), T. Bayer, P. Schaaf, N. Iqbal, F. Rudroff
M. Mihovilovic (Vienna/AT), U. Bornscheuer (Greifswald/DE)
- FTP41 Polymorphism of SOD2 Ala/Val Gene in Patient with Multiple
Sclerosis
T. Jevtovic-Stoimenov (Nis/RS), A. Hedrih (Novi Pazar/RS)
S. Ijubisavljevic, I. Stojanovic (Nis/RS)
- FTP42 Isolation of Polyketides Producing Actinomycete Isolates via PCR-
Based Genome Screening for PKS Gene
M. Adegboye, O. Babalola (Mmabatho/ZA)
- FTP43 Absence of GSTT1 Gene Deletion among Diabetic Retinopathic
Patients
N. Abbasi, Z. Salehi, Y. Alizadeh (Rasht/IR)
- FTP44 Nature and Position of the Binding Modules are Important for the
Activities of Cellulases and Xylanases
M. W. Akhtar (Lahore/PK)

- FTP45 Differences Between Akirin Protein Levels in Imatinib Resistant and Sensitive K562 Cell Lines
A. Koc, A. Z. Karabay, T. Ozkan, B. Altınok, Z. Buyukbingol
A. Sunguroglu, F. Aktan (Ankara/TR)
- FTP46 Design of Novel Artificial Metalloenzymes Based on Semisynthetic Protein Assembly Using the RNase S System
M. Genz, D. Singer, E. Hey-Hawkins, R. Hoffmann
N. Sträter (Leipzig/DE)
- FTP47 Therapeutic Proteins with Extended Plasma Half-Life via PASylation: Prolonged Action of the Satiety Hormone Leptin
V. Morath (Freising/DE)
- FTP48 Characterization of Subunit Q in cbb3-type Cytochrome C Oxidase from Pseudomonas Stutzeri ZoBell
M. Kohlstädt, H. Xie, S. Buschmann, H. Michel (Frankfurt a. M./DE)
- FTP49 Clinical Relevance of Serum Vascular Endothelial Growth Factor in Patients with Colorectal Cancer
A. Petrov, G. Minkov, K. Halacheva, M. Gulubova
Y. Yovtchev (Stara Zagora/BG)
- FTP50 Hsp90 Dynamics Regulated by Molecular Switch Points
F. Tippel (Garching/DE)
- PKV05 The Innate Immune Response to Streptococcus Pneumoniae in the Lung is Influenced by Immunoproteasomes
F. Kirschner, K. Reppe, M. Witzenrath, U. Seifert
P.-M. Kloetzel (Berlin/DE)
- PKV14 Traceless' Tracing of Proteins – High-Affinity Trans-Splicing for Protein Labeling in Living Cells
M. Braner, A. Kollmannsperger, A. Raulf, M. Heilemann
R. Wieneke, R. Tampé (Frankfurt a. M./DE)
- PKV23 The Effect of Hypoxia During Vertebrate Development
S. Metikala, H. Neuhaus, T. Hollemann (Halle, Saale/DE)
- PKV24 Localization of Amyloid-Beta 1-42 (A β 1-42) Peptide in Cells and their Influence on Mitochondrial Function
V. Decker, T. Meckel, N. A. Dencher (Darmstadt/DE)

Glycobiology of Human Diseases

- GLP01 Development of a Bioprocess for the High Yield Expression of Glycoconjugated Vaccines Against Shigella Flexneri 2a in E. Coli
M. Kämpf (St. Gallen/CH), M. Braun, D. Sirena (Schlieren/CH)
J. Ihssen, L. Thöny-Meyer (St. Gallen/CH)
- GLP02 In-Gel O-Glycomics Reveals Structural Conservation of O-Mannose Glycans Among Vertebrates
S. Pacharra, F.-G. Hanisch, S. Staubach, I. Breloy (Cologne/DE)
- GLP03 Evidence for Core 2 to core 1 O-Glycan Remodeling During Recycling of MUC1
H. Razawi, C. Kinlough, S. Staubach (Cologne/DE)
P. A. Poland, Y. Rbaibi, O. A. Weisz, R. P. Hughey (Pittsburgh, PA/US)
F.-G. Hanisch (Cologne/DE)
- GLP04 Trefoil Domains Represent Highly Efficient Conformational Determinants for N-Linked LacdiNAc Synthesis
D. Bonar, F.-G. Hanisch (Cologne/DE)
W. Hoffmann (Magdeburg/DE)
- GLP05 Characterization of the Polysialylation Status of the Neuronal Cell Adhesion Molecule NCAM During Folliculogenesis of Felis Catus
M. Kaese (Giessen/DE), B. Braun (Berlin/DE), R. Gerardy-Schahn
M. Mühlenhoff (Hannover/DE), A. Wehrend (Giessen/DE)
K. Jewgenow (Berlin/DE), S. P. Galuska (Giessen/DE)
- GLP06 Sialic Acid Metabolic Engineering as a Novel Therapeutic Strategy for the Treatment of Neuroblastoma Cancer
V. Gnanapragassam, B. Kaya, W. Weidemann
R. Horstkorte (Halle, Saale/DE)
- GLP07 Characterization of Polysialylated Proteins in Human Breast Milk
R. Veelken, S. Rudloff, C. Kunz (Giessen/DE), R. Gerardy-Schahn
M. Mühlenhoff (Hannover/DE), S. P. Galuska (Giessen/DE)
- GLV01 Biomarker Identification for Medullary Cystic Kidney Disease Type I (MCKD1) a Chronic Tubulointerstitial Nephropathy
S. Staubach, B. Beck, F.-G. Hanisch (Cologne/DE)

GLV02 Polysialic Acid is Involved During “On/Off Mechanisms” of Seasonal Spermatogenesis
 M. Hänsch, P. Simon (Giessen/DE), R. Gerardy-Schahn
 M. Mühlenhoff (Hannover/DE), J. Schön (Berlin/DE)
 R. Middendorff (Giessen/DE), K. Müller (Berlin/DE)
S. P. Galuska (Giessen/DE)

PKV18 Green Beards, Beer & Candidiasis – Fungal Adhesion & its Molecular Base
L.-O. Essen, M. Veelders, S. Brückner, M. Maestre-Reyna, M. Kock
 H.-U. Moesch (Marburg/DE)

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GTP01 Mechanism in Metastasis – Regulation of E-Cadherin Mediated Cell-Cell Contacts Characterization of the Rho-Interacting Domain in p120ctn
M. J. Egidi, L. C. Will, K. Giehl, A. Menke (Giessen/DE)

GTP02 Galectins Regulate Ras-induced Signal Transduction in Adenocarcinoma Cells
S.-J. Barnard, J. Klinke (Giessen/DE), A. Porr (Ulm/DE), A. Menke
 K. Giehl (Giessen/DE)

GTP04 Biophysical Characterization of mGBP5 (Murine Guanylate Binding Protein 5)
M. Kutsch, C. Herrmann (Bochum/DE), S. Kunzelmann (London/GB)

GTV01 A Farnesyl Switch Regulates the Dynamic Membrane Binding of Human Guanylate Binding Protein 1
A. Y. Zienert (Cologne/DE), C. Dovengerds (Bochum/DE)
 A. Blum, S. D. Günther, J. M. Dargazanli (Cologne/DE)
 C. Herrmann (Bochum/DE), G. J. Praefcke (Cologne/DE)

GTV02 Biochemical Modulation of Small GTPases by Legionella Proteins
 A. Itzen (Garching/DE)

PKV02 The Chemoattractant Cluster – Studying GPCR Ligand Binding Properties in a Nutshell
L. Joedicke, R. Trenker, J. Preu, H. Michel (Frankfurt a. M./DE)

- PKV06 Conformational Equilibria in Ras Superfamily Members as Potential Target to Modulate Signalling Activity
M. Spoerner, I. C. Rosnizeck, T. Meierhofer, K. Reiss
H. R. Kalbitzer (Regensburg/DE)
- PKV08 Dictyostelium Roco Proteins to study LRRK2-Mediated Parkinson Disease
B. Gilsbach, S. Terheyden, Y. F. Ho
P. J. van Haastert (Groningen/NL), A. Wittinghofer (Dortmund/DE)
A. Kortholt (Groningen/NL)
- PKV12 Structural and Functional Studies on Cp*Rh Derivatives of GPCR Eptide Ligands
R. Stoll (Bochum/DE)

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- MTP01 Polyethylene Glycol-400 (PEG-400) Inhibits P-gp Activity and Expression in Caco-2 Cells
D. Hodaei, K. Yousefi, L. Mohammadnejad, B. Baradaran
H. Valizadeh, P. Zakeri-Milani (Tabriz/IR)
- MTP02 The Diversity of Mitochondrial Protein Import in Eukaryotes
M. Deponte (Heidelberg/DE)
- MTP03 Subcellular Trafficking of Flotillins – Impact of Dynamin and Clathrin
M. Meister, A. Zuk, R. Tikkanen (Giessen/DE)
- MTP04 Heterologous Expression, Solubilization and Functional Purification of the Human ABC Transporter MDR3 in the Yeast *Pichia Pastoris*
M. Kluth, P. Ellinger, S. Smits, L. Schmitt (Düsseldorf/DE)
- MTP05 Approach in Characterization of the Membrane Fusion Protein HlyD
M. H. H. Lenders, S. H. J. Smits, L. Schmitt (Düsseldorf/DE)
- MTP06 Cell-Type Specific Expression of ZnT8 in the Porcine Pancreas
M. Schweiger, M. Steffl, W. M. Amselgruber (Stuttgart/DE)
- MTP07 ATP-Binding Cassette Transporter G1 (ABCG1) Prevents Accumulation of Atherogenic Oxysterols
T. Engel, M. Fobker (Münster/DE),
A. Schürmann (Potsdam-Rehbrücke/DE), J.-R. Nofer
U. Seedorf (Münster/DE)

- MTP08 Interaction of Alzheimer's Amyloid Beta with Oxysterol-Containing Membranes
H. Phan, T. Hata, M. Morita, T. Yoda, T. Hamada, M. Vestergaard
M. Takagi (Nomi/JP)
- MTP09 Evolutionary Maturation – The Survivin-CRM1-Axis is Required to Maintain Chromosomal Stability in Higher Eukaryots
D. Wuensch, R. Stauber (Mainz/DE), S. Knauer (Essen/DE)
- MTP10 The Ubiquitous Peptidoglycan-Binding Protein TsaP Functions in Surface Assembly of Type IV Pili
K. Siewering, S. Jain, C. Friedrich (Marburg/DE)
M. Webber-Birungi (Groningen/NL), I. Binzen, A. Wagner, S. Huntley
J. Kahnt, A. Klingl (Marburg/DE), E. Boekema (Groningen/NL)
L. Sogaard-Andersen, C. van der Does (Marburg/DE)
- MTP11 E.Coli Sugar Transporters of the Major Facilitator Superfamily: Electrophysiological Investigations on LacY, FucP and Xyle
A. Bazzone, K. Fendler (Frankfurt a. M./DE)
- MTP12 Cooperation of Arf and Flotillins in Membrane Trafficking
S. Kühne, M. Meister, A. Zuk, B. A. John, A. Banning
R. Tikkanen (Giessen/DE)
- MTP13 The Antigen Translocation Complex TAP in Nanodiscs as a Platform for Mechanistic Studies
S. Schmidt, D. Parcej, R. Tampé (Frankfurt a. M./DE)
- MTP14 Electrophysiological Investigation of the Electroneutral Na⁺/H⁺ Antiporter NhaP1 from Methanococcus Jannaschii
O. Calinescu, C. Paulino, W. Kühlbrandt, K. Fendler (Frankfurt a. M./DE)
- MTP15 The Production of Defensive Compounds in the Exocrine Glands of Juvenile Leaf Beetles Relies on the Activity of ABC Transporters and Sugar Porters
A. Burse, A. Strauß, R. Bodemann, M. Stock, N. Wielsch
W. Boland (Jena/DE)
- MTP16 The Heme a Synthase Cox15 Associates with Cytochrome C Oxidase Assembly Intermediates During Cox1 Maturation
B. Bareth, S. Dennerlein, D. U. Mick, M. Nikolov, H. Urlaub
P. Rehling (Göttingen/DE)

- MTP17 Characterisation of an Ent3p and Ent5p Interaction Partner in Trafficking Between TGN and Endosomes
R. Bachmann, G. Fischer von Mollard (Bielefeld/DE)
- MTP18 Role of Vti1a and Vti1b in Phagocytosis and Phagosome Maturation
A. Moreth, M. Sievers, G. Fischer von Mollard (Bielefeld/DE)
- MTP19 Host-Guest Reporter Pairs with 'Turn-on' Fluorescence Response to Monitor the Uptake of Cationic Analytes into Live Cells
A. Norouzy, Z. Azizivarzaneh, W. M. Nau (Bremen/DE)
- MTP20 Functional and Structural Characterisation of the T1SS ABC Transporter HlyB
K. Kanonenberg, S. Reimann, L. Schmitt, S. H. J. Smits (Düsseldorf/DE)
- MTP21 Detecting Substrates Bound to the Secondary Multidrug Efflux Pump EmrE by DNP Enhanced Solid-State NMR
Y. S. Ong, A. Lakatos (Frankfurt a. M./DE)
- MTP22 Biochemical Identification of SNARE Complex Interaction Partners in the Nematode *C. Elegans*
F. Csintalan, A. Gottschalk (Frankfurt a. M./DE)
- MTP23 A Novel Miniaturized and Automated Biochip for Multiplexed Parallel Single Transport Recordings
M. Urban, A. Kleefen (Frankfurt a. M./DE), B. Windschiegl (Münster/DE)
N. Mukherjee (Groningen/NL), M. von der Brüggen (Münster/DE)
A. Koçer (Groningen/NL), R. Tampé (Frankfurt a. M./DE)
- MTP24 The p7 protein of Hepatitis C – Characterisation of Genotype-Specific Ion Channel Constructs and Novel Antiviral Agents
H.-G. Breitinger, U. Breitinger (New Cairo/EG)
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M. Mehler, J. Kuhlei, A. E. L. Busche, A. Laguerre, V. Dötsch
C. Glaubitz (Frankfurt a. M./DE)
- MTP26 Lipid and Phase Specificity of the Pore Forming Toxin Hla from *S. aureus*
N. Hellmann, M. Schwiering (Mainz/DE)

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G. Hromatke (Planegg-Martinsried/DE)
- MTP28 Viromers – Safe Delivery of siRNA Using a Bionic Concept
C. Reinsch, S. Panzner (Halle, Saale/DE)
- MTP29 The Ionophores Calcimycin and Ionomycin Extract Iron and Manganese from Soil Bacteria – a Potent Strategy Against Competitors
N. Raatschen, M. Wenzel, L. Leichert, U. Krämer
J. Bandow (Bochum/DE)
- MTP30 AtCML4 and AtCML5 – Two Calmodulin-Like Proteins of the Endomembrane system in Arabidopsis Thaliana
H. Ruge, S. Flosdorff, U. C. Vothknecht (Munich/DE)
- MTP31 Aspergillus Nidulans Nitrate Transport Inhibition by Substrate Structural Analogues
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- MTP32 Archaeillum – The Ancient Nanomachine – A Detailed Biochemical and Structural Dissection
A. Banerjee, P. Tripp, T. Neiner, A. Ghosh (Marburg/DE)
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J. A. Tainer (Berkley, CA/US), S.-V. Albers (Marburg/DE)
- MTP33 Functional and Structural Organisation of the MHC I Peptide Loading Complex
A. Blees, S. Hulpke, R. Tampé (Frankfurt a. M./DE)
- MTP34 Ouabain Interactions with the $\alpha 4$ Isoform of the Sodium Pump Induce a Signaling Cascade Resulting in ATF-1 and CREB Activation and Stimulation of StAR and Claudin 1 Expression in Sertoli Cells
D. Raimund, L. Konrad, G. Scheiner-Bobis (Giessen/DE)
- MTP35 Structural and Functional Characterization of the Eukaryotic SRP Receptor
B. Jadhav, G. Stier, K. Wild, I. Sinning (Heidelberg/DE)

- MTP36 Target-Nanoparticles for the Enhancer-Radiotherapy of Cancer:
Lanthanide loaded Liposomes and Polymer particles
T. Nawroth, K. Buch, T. Peters, P. Langguth, L. Schmueser
H. Decker, N. Hellmann, H. Schmidberger (Mainz/DE)
G. Goerigk (Berlin/DE), P. Boesecke, R. Schweins (Grenoble/FR)
- MTP37 Towards a Structural Understanding of 5S RNP Biogenesis and the
Role of Syo1
F. Rodriguez-Calvino, S. Kharde, G. Bange, I. Sinning (Heidelberg/DE)
- MTP38 Molecular Dissection of the Mitochondrial Protein Import Machinery
A. Ramesh, J. M. Herrmann (Kaiserslautern/DE)
- MTP39 Biogenesis of dre2 Occurs Independently of Mitochondrial
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V. Peleh, J. M. Herrmann (Kaiserslautern/DE)
- PKV07 A Lipid E-MAP Identifies Ubx2 as a Critical Regulator of Lipid
Saturation and Lipid Bilayer Stress
R. Ernst (Frankfurt a. M./DE)
- PKV11 Intercellular Signaling Via Cell Surface Proteins – Stimulus-Induced
Processing and Release of the Extracellular Nucleotidase, CD73,
from Brain and Adipose Tissues in Various Assembly States
G. Müller, M. Tschöp (Garching/DE)
- PKV17 Modification of Self-Organizing Min Surface Waves through Protein
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S. Kretschmer, P. Schwille (Martinsried/DE)
- PKV25 Find Out to Apply – The Hemolysin A Type 1 Secretion System
C. Schwarz (Düsseldorf/DE), J. Lecher (Jülich/DE)
S. Smits (Düsseldorf/DE), D. Willbold (Jülich/DE)
L. Schmitt (Düsseldorf/DE)
- PKV27 Flotillins Functionally Organize the Bacterial Membrane
J. Bach (Martinsried/GB), M. Bramkamp (Martinsried/DE)
- PKV28 Optochemical Biology – In-Situ Receptor Clustering Triggered by Light
R. Wieneke, R. Tampé (Frankfurt a. M./DE)

- PKV29 Identification of New Cargo Proteins that Require Clathrin Adaptor Complexes for Intracellular Transport
J. Zimmermann (Cologne/DE), A. Steffens (Bonn/DE), S. Müller S. Höning (Cologne/DE)
- PKV30 Semisynthetic Lipidated LC3 Protein Mediates Membrane Fusion
A. Yang, G. Triola, Y. Wu (Dortmund/DE)
- PKV32 The Nucleo-Mitochondrial GTPase NOA1 is Stimulated by G-quadruplex Nucleotide Ligands and is a Substrate of the Mitochondrial Matrix Protease ClpXP
N. Al-Furoukh (Bad Nauheim/DE), S. Wanrooij (Gothenburg/SE)
S. Goffart (Joensuu/FI), J. Kardon (Cambridge, MA/US), H. Nolte S. Hölper, M. Krüger (Bad Nauheim/DE)
T. Baker (Cambridge, MA/US), T. Braun (Bad Nauheim/DE)
- PKV35 Conformational Flexibility of VDAC and the Influence of Effectors
B. Mertins, S. Oppermann, K. Sivaraman, P. Reiss, U. Koert G. Psakis, L.-O. Essen (Marburg/DE)

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- BFP01 Biochemistry of the Cell-Free Expressed Human Gonadotropin Releasing Hormone Receptor – Towards Targeted Chemotherapy
E. Orban (Frankfurt a. M./DE), I. Szabo (Budapest/HU), V. Dotsch F. Bernhard (Frankfurt a. M./DE)
- BFP02 Co-Translational Processing of Glycoprotein 3 from Equine Arteritis Virus – N-Glycosylation in the Vicinity of the Signal Peptide Prevents Cleavage
A. Matczuk, M. Veit (Berlin/DE)
- BFP03 Chaperoning a Kinase Under Stress – v-Src and Hsp90
E. Boczek (Munich/DE), J. Buchner (Garching/DE)
- BFP04 Growth Induction of the Translationally Controlled Tumour Protein TCTP is Regulated at the Translational Level through the Akt/mTORC1 Signalling Pathway
U.-A. Bommer (Wollongong/AU), V. Iadevaia (Southampton/GB)
B. Knoch (Wollongong/AU), C. Proud (Southampton/GB)

- BFP05** Lipid Dependent Activities of Cell-Free Expressed MraY Translocase Homologues – Towards Drug Screening Platforms in Defined Membrane Environments
E. Henrich, Y. Ma (Frankfurt a. M./DE), D. Münch, T. Schneider
H.-G. Sahl (Bonn/DE), V. Dötsch, F. Bernhard (Frankfurt /DE)
- BFP06** The Efficiency and Dynamics of the UGA Recoding Into Seleno-cysteine In Vivo and In Vitro
S. B. Kotini, F. Peske, M. Rodnina (Göttingen/DE)
- BFP07** A Gateway-Based High-Throughput System for the Optimization of Recombinant Protein Expression in *K. Lactis*
J. Pavlicek, L. Skultetyova, P. Daniel, B. Hankova
C. Barinka (Prague/CZ)
- BFP08** Cytosolic Factors for Oxidative Protein Import into Mitochondria
M. Fischer, M. Habich, J. Riemer (Kaiserslautern/DE)
- BFP09** Conformational Dynamics of the Ribosome Recycling Factor ABCE1
E. Nürenberg (Frankfurt a. M./DE)
- BFP10** Expression and Characterization of Different Fructose 6-Phosphate Aldolases
N. Weizenmann (Leipzig/DE)
- BFP11** Recombinant Expression of a Chimeric Antimicrobial β -Defensin Utilizing Npro Fusion Technology
A. Erler, S. Schindler, P. Engele, S. Albertini, B. Auer
R. Schneider (Innsbruck/AT)
- BFP12** Adaptation of Translation Upon Peptide Deformylase Inhibition in *Bacillus Subtilis*
S. Langklotz, J. E. Bandow (Bochum/DE)
- BFP13** Elucidating the Structure of an Autoproteolytic Expression Tool
S. Schindler (Graz/AT), T. Zögg (Salzburg/AT), M. Sponring
M. Koll, R. Schneider (Graz/AT), H. Brandstetter (Salzburg/AT)
B. Auer (Graz/AT)
- BFP14** Proteomic Analysis of the Yeast Mitochondrial Ribosome
M. Wöllhaf, J. M. Herrmann (Kaiserslautern/DE)

- PKV16 From Structure to Function of the Mammalian SRP System
M. Becker, J.-T. Grotwinkel, B. Segnitz, K. Wild
I. Sinning (Heidelberg/DE)
- PKV33 A Strategy for the Identification of Mitochondrial CLPXP Protease Interactors and Substrates
F. Fischer, H. D. Osiewacz (Frankfurt a. M./DE)
- Redoxbiology**
- RBP01 Mechanism and Regulation of Glutaredoxin/Glutathione-Dependent Peroxiredoxins
M. Deponte (Heidelberg/DE)
- RBP02 Redox Processes in Mitochondrial Respiratory Chain Assembly
A. Erdogan, J. Riemer (Kaiserslautern/DE)
- RBP03 Molecular Mechanisms of ROS Production by Mitochondrial Complex II
E. Bonke, I. Siebels, S. Dröse (Frankfurt a. M./DE)
- RBP04 Functional Characterization of Single Nucleotide Polymorphisms in Human Lipoxygenases
T. Horn (Berlin/DE), I. Ivanov (Rostock/DE), A. Di Venere (Rome/IT)
H. Kühn (Berlin/DE)
- RBP05 Dissecting the Catalytic Mechanism of Trypanosoma Brucei Trypanothione Synthetase by Kinetic Analysis and Computational Modelling
A. E. Leroux (Heidelberg/DE), J. R. Haanstra
B. M. Bakker (Groningen/NL), R. L. Krauth-Siegel (Heidelberg/DE)
- RBP06 Stress-Induced Protein S-Glutathionylation in Trypanosomes
K. Diederich, T. Ruppert, L. Krauth-Siegel (Heidelberg/DE)
- RBP07 Methionine Oxidation Activates the Hypochlorite-Specific Transcription Factor HypT
A. Drazic, J. Winter (Munich/DE)
- RBP08 Undiscovered Ways of Evolution in the Peroxidase-Catalase Superfamily – Hybrid Heme Peroxidases
M. Zamocky (Vienna/AT), K. Chovanova (Bratislava/SK)
P. G. Furtmüller, C. Obinger (Vienna/AT)

- RBP09 Which Role Do Repair Mechanisms Play after Oxidative Damage of DNA, RNA and Bases of the Free Nucleotide Pool?
P. Mandel, S. Brand, N. Schupp (Würzburg/DE)
- RBP10 Identification of a Thiol-Disulfide Redox Switch in Collapsin Response Mediating Protein 2 (CRMP2/DPYSL2)
C. H. Lillig, M. Gellert, J. Mitlöhner, D. Trnka (Greifswald/DE)
- RBP11 The Role of Glutaredoxin 1 in the Stress Response of African Trypanosomes
B. Musunda, L. Krauth-Siegel (Heidelberg/DE)
- RBP12 The Promotion of Megakaryocytic Differentiation of K562 Cells through Oxidative Stress Generated by Black Light Irradiation
R. W. Nurhayati, N. Nomura, Y. Ojima, M. Taya (Osaka/JP)
- RBP13 Serine Acetyltransferase-1, a Key Enzyme of the L-Cysteine Biosynthetic Pathway, is a Target of Thioredoxin-Mediated Regulation in the Human Protozoan Parasite Entamoeba Histolytica
S. Schlosser, D. Leitsch, M. Duchene (Vienna/AT)
- RBP14 Imbalance in Redox Regulation Enhances Smac Mimetic-Induced Cell Death in Acute Lymphoblastic Leukemia (ALL)
H. Schöneberger, K. Belz, S. Fulda (Frankfurt a. M./DE)
- RBP15 PDGF-BB Induces Protein Kinase A Signaling Via Production of Reactive Oxygen Species Rat Glomerular Mesangial Cells
K.-F. Beck, F. Eisel, M. Beck, H. Heide, I. Wittig, M. Boosen
J. Pfeilschifter (Frankfurt a. M./DE)
- RBP16 Impact of Oxidative Stress on TCF11/Nrf1-Dependent Regulation of the Ubiquitin-Proteasome System
F. Sotzny, A. Koch (Berlin/DE), J. Steffen (Los Angeles, CA/US)
E. Krüger (Berlin/DE)
- RBP17 Arabidopsis G6PD1 and PGL3 Isoforms are Targeted to Chloroplasts and/or Peroxisomes by Interaction with Trx m2 in the Cytosol
A. von Schaewen, T. Meyer, C. Hölscher
M. C. Lutterbey (Münster/DE)

- RBP18 Protein Disulfide Isomerase Mediates a Conformational Change of the Membrane Proximal Domain of Adam17
S. Düsterhöft, S. Jung, C.-W. Hung, A. Tholey, F. D. Soennichsen
J. Grötzinger, I. Lorenzen (Kiel/DE)
- RBP19 Bleach Turns a Conserved Escherichia Coli Protein Into a Highly Efficient Chaperone
A. Müller (Bochum/DE), U. Jakob (Ann Arbor, MI/US), N. Lupilova
L. I. Leichert (Bochum/DE)
- RBP20 Crystal Structure of Plasmodium Falciparum Thioredoxin Reductase in Complex with its Substrate Thioredoxin – Comparison with the Human Host Proteins
E. Jortzik, K. Fritz-Wolf, M. Stumpf, J. Preuss, R. Iozef, S. Rahlfs
K. Becker (Giessen/DE)
- RBP21 Smac Mimetic Primes FADD-Deficient Leukemia Cells for ROS Dependent TNF α -Induced Necroptosis
B. Schenk, S. Fulda (Frankfurt a. M./DE)
- PKV09 The Interactome of the Mitochondrial Oxidoreductase Mia40 in Human Cells
C. Petrungaro, M. Fischer (Kaiserslautern/DE), V. Küttner
J. Dengjel (Freiburg/DE), J. Riemer (Kaiserslautern/DE)
- PKV21 Cytosolic Peroxidases Protect African Trypanosomes from Lysosomal Oxidative Stress
C. Hiller (Heidelberg/DE), D. Benítez, M. Comini (Montevideo/UY)
L. Krauth-Siegel (Heidelberg/DE)

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- RNP01 Chemo-Enzymatic Modification of the mRNA 5'-Cap Using Click Chemistries
J. Holstein, D. Schulz, A. Rentmeister (Hamburg/DE)
- RNP02 Nuclear Nucleosidetriphosphate Syntheses by Newly Detected Chromatin Bound Nucleoside-Nucleotide-Phosphotransferases
K. Lenger (Offenbach/DE)
- RNP03 Determination of the Conformation of the 2'OH Group in RNA by NMR Spectroscopy and Density Functional Theory Calculations
P. Gupta, S. Nozinovic, S. Tüllmann, H. Schwalbe,
M. C. Holthausen (Frankfurt a. M./DE)

- RNP04 First Contact Imaging of Nanoparticulate siRNA
O. Osmanoglu, M. Helm (Mainz/DE)
- RNP05 Structure-Function Relationship of Substituted Bromomethylcoumarins in Nucleoside Specificity of RNA Alkylation
A. Ochel, S. Kellner, L. B. Kollar (Mainz/DE), M. Ghate (Gujarat/IO)
M. Helm (Mainz/DE)
- RNP06 The Multifunctional Coumarin PBC Displays Extraordinary Selectivity for 4-Thiouridine
K. Schmid, M. Adobes Vidal, S. Kellner, M. Helm (Mainz/DE)
- RNP07 The Effect of Base Modification for Click Functionalization on Duplex Stability
O. Domingo, I. Hellmuth, M. Helm (Mainz/DE)
- RNP08 Analysis of Nucleotide Modifications in RNA Based on Deep Sequencing
R. Hauenschild, L. Tserovski, M. Helm (Mainz/DE)
- RNP09 Tetramolecular Fluorescence Complementation for Detection of Specific RNAs in Vitro
A. K. Rath, S. J. Kellermann, A. Rentmeister (Hamburg/DE)
- RNP10 The RNA Methyltransferase Dnmt2 Methylates DNA in the Structural Context of a tRNA
S. Kaiser (Mainz/DE), T. P. Jurkowski (Stuttgart/DE)
S. Kellner (Mainz/DE), A. Jeltsch (Stuttgart/DE), M. Helm (Mainz/DE)
- RNP11 Investigating siRNA Release from Nanoparticulate Formulations
E. Scholz, B. Krieg, M. Hirsch, M. Helm (Mainz/DE)
- RNP12 Isolation of Small Regulatory RNAs from E.coli and RNA Modification Analysis by LC-MS/MS
K. Thuring (Mainz/DE), Y. Motorin (Vandoeuvre-les-Nancy/FR),
M. Helm (Mainz/DE)
- RNP13 Dye-Walk on Human Mitochondrial tRNA^{Leu(CUN)} to Investigate tRNA Recognition by Mouse Pseudouridine Synthase 1 Using Microscale Thermophoresis
N. Vickneswaran, F. Spenkuch, M. Helm (Mainz/DE)

- RNP14 Aptamer Mediated uptake of Therapeutic Agents
S. Kruspe (Hamburg/DE), C. Meyer (New York, NY/US)
U. Hahn (Hamburg/DE)
- RNP15 Microscale Thermophoresis and Sophisticated Fluorescence
Methods Reveal No Inhibition of Pseudouridine Synthase TruB by
5-Fluorouridine
F. Spenkuch, N. Vickneswaran, G. Hinze, T. Basché
M. Helm (Mainz/DE)
- RNP16 Structural Dynamics in RNA Modification Enzyme Complexes
M. Hengesbach (Frankfurt/GB)
- RNP17 Detection and Quantification of Modified Nucleic Acids by LC-MS/MS
Analysis
S. Kellner, M. Helm (Mainz/DE)
- RNP18 Regulation of Alternative Splicing During Differentiation
S. Hozeifi, D. Stanek (Prague/CZ)
- RNP19 Detection of RNA Modifications Via Reverse Transcription and Next
Generation Sequencing
L. Tserovski, R. Hauenschild, M. Helm (Mainz/DE)
- RNV01 Engineered guideRNA-Dependent Deaminases – A Tool to
Reprogram RNA Function
T. Stafforst (Tübingen/DE)
- PKV15 Tracking the Cellular Fate of siRNA via FRET
M. Hirsch, M. Helm (Mainz/DE)
- PKV36 Mitochondriotropic Liposomes for Targeted Delivery of Therapeutic
tRNAs
B. Krieg, M. Helm (Mainz/DE)
- Tumorigenesis and Paraneoplastic Syndromes**
- TPP01 p53 DNA Binding Cooperativity is Essential for Apoptosis and Tumor
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O. Timofeev, K. Schlereth, T. Stiewe (Marburg/DE)

- TPP02 Statistical Analysis of Cell Properties and Distribution in Hodgkin Lymphoma Whole Slide Images
H. Schäfer, T. Schäfer, J. Ackermann, N. Dichter, C. Döring
S. Hartmann, M.-L. Hansmann, I. Koch (Frankfurt a. M./DE)
- TPP03 Characteristics of the CSN-CRL Pathway During Urological Tumorigenesis
I. Gummlich, E. Kilic, K. Jung, W. Dubiel (Berlin/DE)
- TPP04 Glycine Receptor Autoantibodies Recognize Extracellular Epitopes of the Receptor Complex
B. Schleyer (Würzburg/DE), C. Kluck (Erlangen/DE)
H.-M. Meinck (Heidelberg/DE), A. Vincent (Oxford/GB)
C. Villmann (Würzburg/DE)
- TPP05 Quinoxaline Antitumor Compounds that Do Not Interact with the DNA
R. Zamudio-Vazquez, J. Tulla-Puche (Barcelona/ES)
K. R. Fox (Southampton/GB), F. Albericio (Barcelona/ES)
- TPP06 Switching Sides – How p53 Takes Out its Brothers in Arms
S. Kehroesser (Frankfurt a. M./DE), P. A. Muller (Glasgow/GB)
M. Tuppi, B. Schäfer (Frankfurt a. M./DE), K. H. Vousden (Glasgow/GB)
G. Melino (Leicester/GB), V. Dötsch (Frankfurt a. M./DE)
- TPP07 Translationally Controlled Tumour Protein TCTP, a New Biomarker in Colon Cancer?
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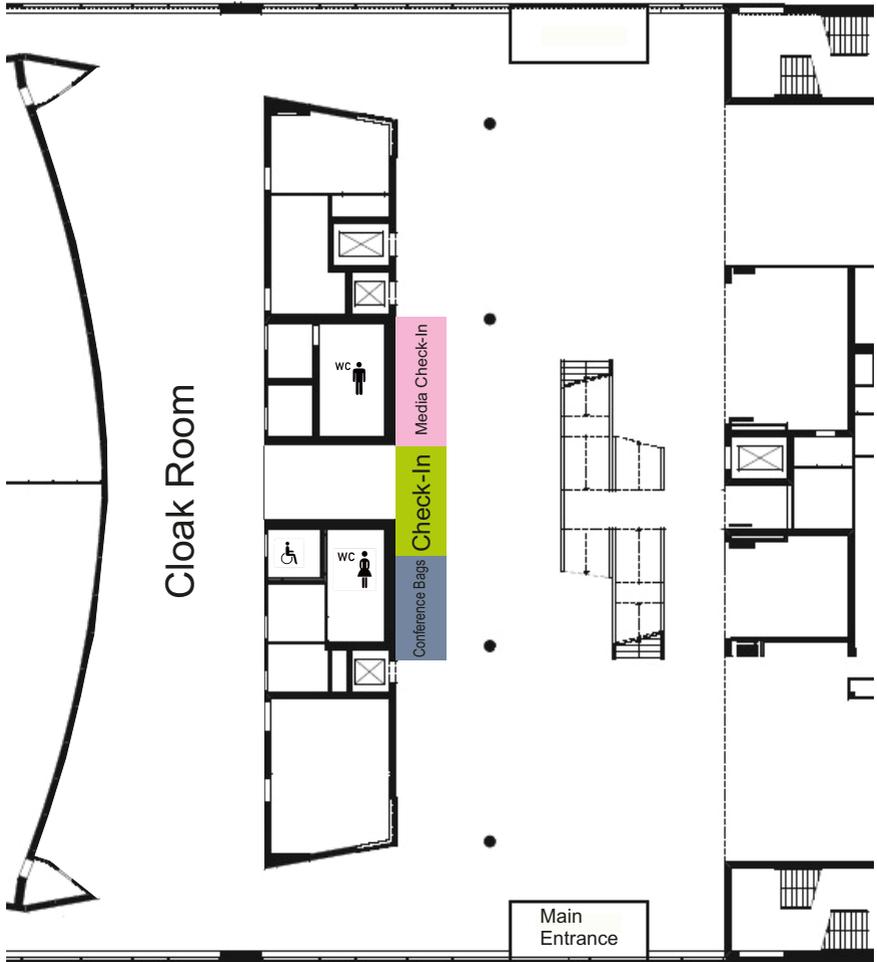
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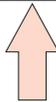
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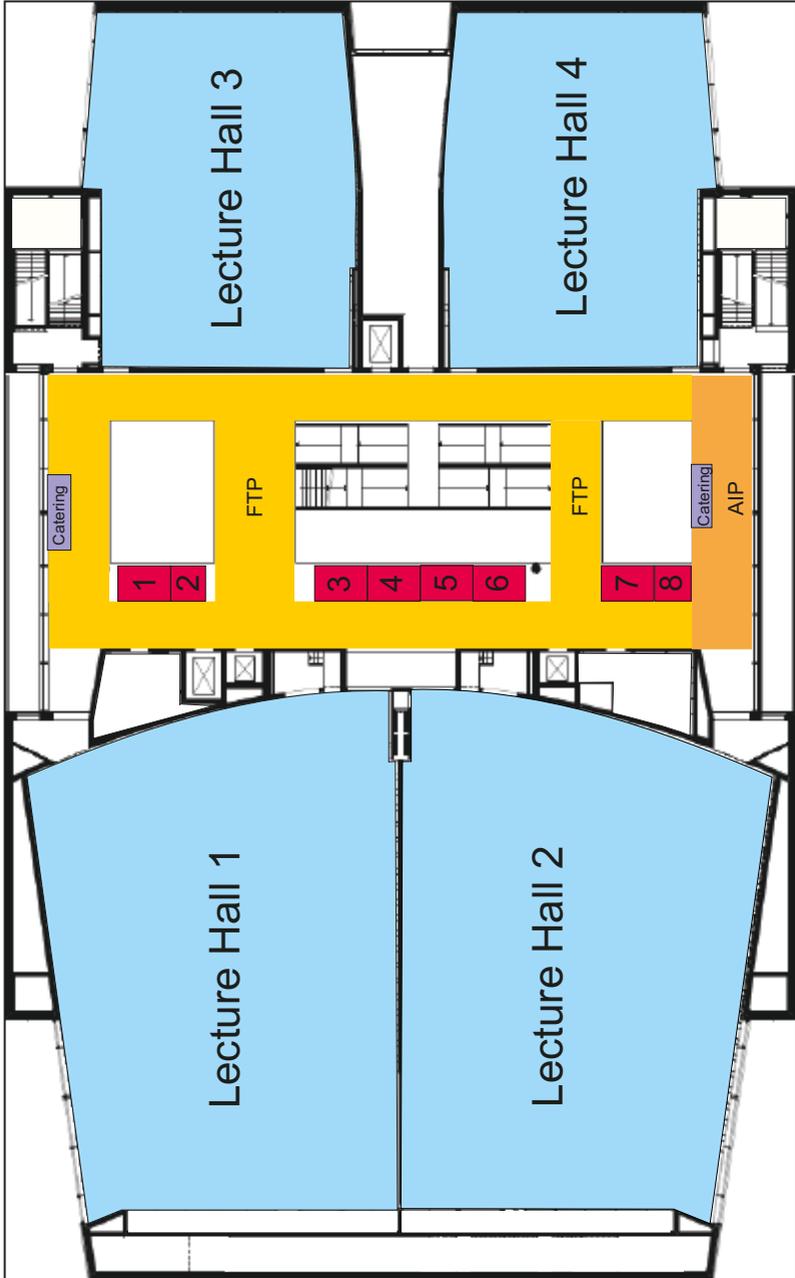
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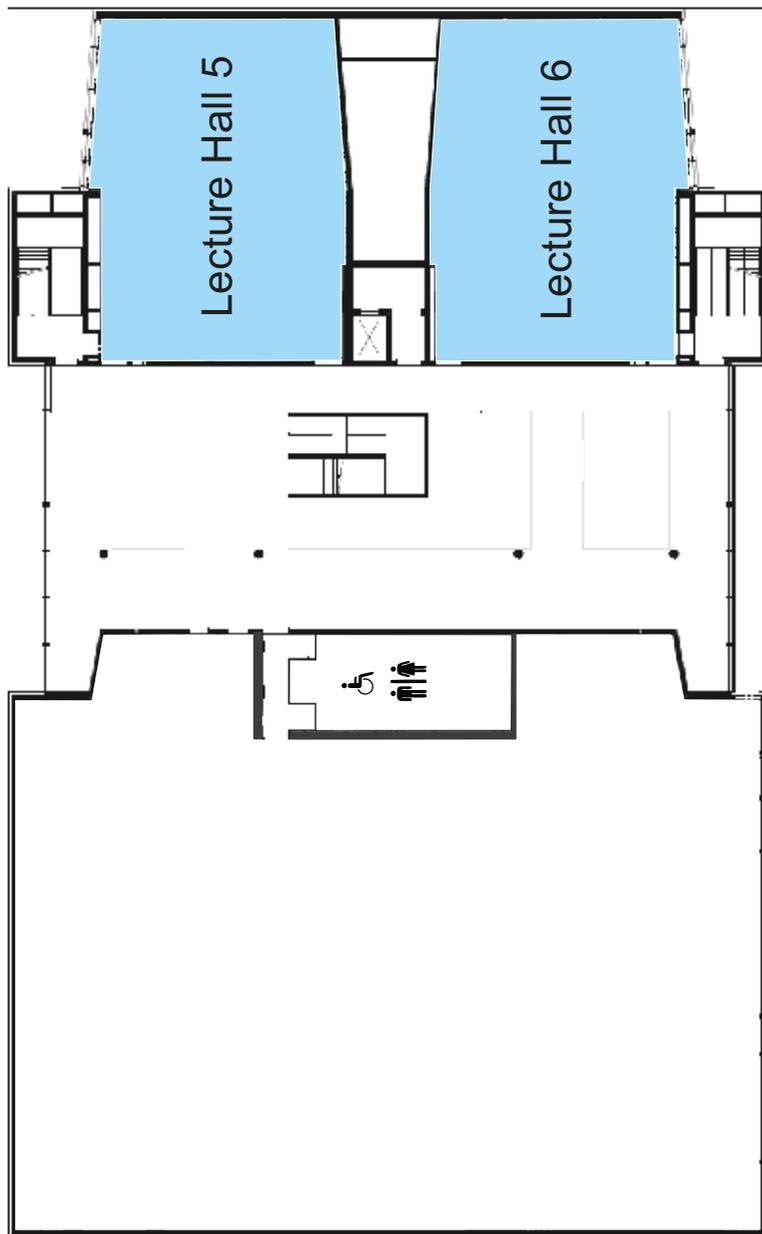
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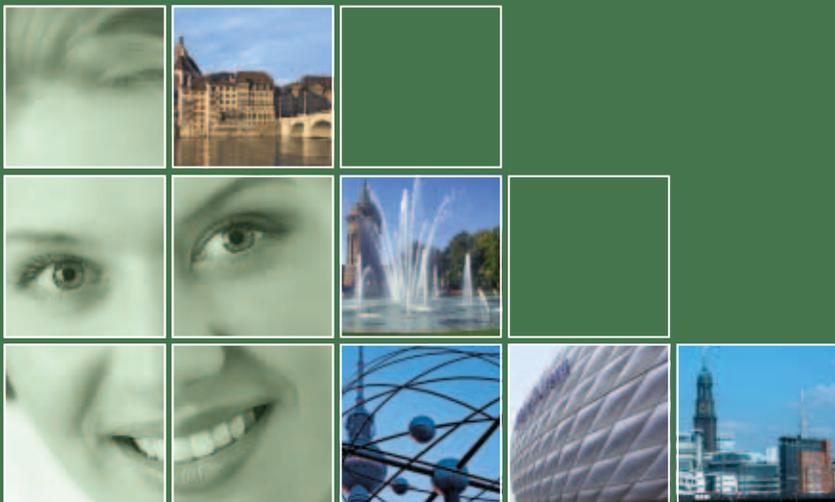
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