



Molecular
Basis of Life

Molecular Basis of Life 2017

Ruhr University Bochum
[September 24 - 27, 2017]



PROGRAM



Concerned about CRISPR off-target effects?

Achieve footprint-free gene editing via efficient delivery of Cas9/sgRNA ribonucleoprotein (RNP) complexes

Persistent and elevated expression of Cas9 in target cells may lead to off-target effects. In contrast, when delivering Cas9/sgRNA RNP complexes, the short residence time of the Cas9 protein will greatly increase the specificity of gene editing. Electroporation of our **Guide-it™ Recombinant Cas9** is a simple method to achieve footprint-free editing. Alternatively, you may deliver RNP complexes via novel vesicle technology. Our **Guide-it™ CRISPR/Cas9 Vesicle Production System** is designed to generate cell-derived nanovesicles, loaded with Cas9/sgRNA RNP complexes against the target of your choice.

More details at www.takarabio.com/guide-it

MEET US AT BOOTH #5

Come to our talk to learn more about Takara Bio's Gene Editing solutions:

"Footprint-free gene editing using CRISPR/Cas9 ribonucleoprotein (RNP) delivery and long ssDNA donor templates"

Presented by **Cornelia Hampe, PhD**

Product Manager – Scientific Support Specialist

Takara Bio Europe



 Room: Lecture Hall 1



Tuesday, Sept. 26
12:30 - 13:30



Clontech **Takara** cellartis
www.takarabio.com



Gesellschaft für Biochemie
und Molekularbiologie e.V.

Molecular Basis of Life 2017

International Fall Meeting of the
Gesellschaft für Biochemie und Molekularbiologie
(German Society for Biochemistry and Molecular Biology)

September 24 - 27, 2017
Ruhr University Bochum



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Welcome Note

Dear friends and colleagues,

It is our great pleasure to welcome you on behalf of the German Society for Biochemistry and Molecular Biology (GBM) to our international conference at the Ruhr University Bochum.

With this congress, we bring together a wide range of researchers from Germany and from across the globe to explore 'The Molecular Basis of Life'. The congress will cover the entire spectrum of molecular biosciences. In addition, there will be lunch sessions on research in the bioscience industry, spectroscopic methods and biomarkers, publishing and peer-review, Perspectives towards the magnetic control of the nervous system as well as sessions organized by the junior GBM. We will also have a public panel discussion on ethics, focusing on the impact of the new CRISPR/Cas9 technique on future development of life.

We would also like to draw your attention to the young scientists that will present their work as posters or as oral presentations. This is a great opportunity to meet the upcoming new generation of promising young researchers!

In each of the parallel sessions we will have two presentations selected from the abstracts. Moreover, we will have the "Pecha Kucha" format on Monday, with numerous speed talks also selected from the abstracts.

The poster sessions, scheduled on Sunday, Monday and Tuesday, offer dynamic, vivid and personal presentations allowing to forge new collaborations and to discover new fields and ideas.

Finally, we wish to draw your attention to the industry exhibition in the foyer of the main lecture hall (Audimax). Major companies from the bioscience field will present their products and services. We thank all our donors and sponsors, whose contributions have greatly helped in shaping this event.

We trust that the Congress will offer ample opportunities for fruitful discussions, as well as the possibility to initiate new collaborations and joint projects.

We wish all participants, speakers and presenters an enjoyable and productive conference!

Rolf Heumann
(Scientific Organizer)

Johannes Herrmann
(President of the GBM)

Schedule

15:00 - 15:15	Conference opening	Audimax
	Rolf Heumann (Conference Organizer) - Johannes Herrmann (President of the GBM) - Nils Metzler-Nolte (Dean of the Faculty of Chemistry and Biochemistry of the Ruhr University Bochum)	
15:15 - 15:30	Organ play	Audimax
	Ingmar Stiller (Folkwang University of the Arts) <i>Fantasia and Fugue in G minor (Johann Sebastian Bach)</i>	
15:30 - 16:30	Public Lecture (Chair: Stefan Herlitze) Gero Miesenböck /Oxford [UK] <i>Die Erleuchtung des Gehirns</i>	Audimax
	(in German language) Gero Miesenböck referiert über die Optogenetik welche die Gentechnik mit Methoden der Optik kombiniert, um das Verhalten bestimmter Nervenzellen im Gehirn sichtbar und steuerbar zu machen.	
16:30 - 16:45	Break	
16:45 - 17:00	Organ play	Audimax
	Ingmar Stiller (Folkwang University of the Arts) <i>Finale from Symphony No. 2 (Charles-Marie Widor)</i>	
17:00 - 17:30	Karl Lohmann Prize (Chair: Johannes Herrmann) Tycho Mevissen /Boston [US] <i>Specificity in the ubiquitin system: molecular mechanisms and applications of OTU family deubiquitinases</i>	Audimax
	Tycho Mevissen receives this years' Karl Lohmann PhD award for his outstanding work in the context of his PhD thesis.	

Sunday, Sept. 24

17:30 - 18:00	GBM PhD Award (Chair: Johannes Herrmann) Katharina Höfer /Heidelberg [DE] <i>Suprises in RNA biology - A new role for an old coenzyme</i>	Audimax
	This year the GBM PhD Award goes to Katharina Höfer for her excellent PhD thesis.	
18:00 - 19:15	Otto Warburg Medal (sponsored by Elsevier/BBA Chair: Johannes Herrmann) in memoriam Stefan Jentsch /Munich [DE]	Audimax
	The German Society for Biochemistry and Molecular Biology (GBM) awards the Otto Warburg Medal posthumously to Stefan Jentsch, former director of the department "Molecular Cell Biology" at the Max Planck Institute for Biochemistry in Martinsried, for his research on the protein Ubiquitin and its role in protein degradation.	
	The memorial address will be delivered by his former coworkers	
	Thorsten Hoppe /Cologne [DE] Michael Rape /Berkeley [USA] Thomas Sommer /Berlin [DE]	
	sponsored by	
		
19:15- 22:00	Get together / Poster discussion (with Pretzels & Beer)	Audimax
	19:30 - 20:30 even poster numbers 20:30 - 21:30 odd poster numbers	
	Together with MAGNEURON and VBIO-NRW, GBM will award five poster prizes (300 Euro each prize) on the last day of the conference.	



Schedule

08:45 - 09:00	Welcome address by Axel Schölmerich (Rector of the Ruhr University Bochum)	Audimax
09:00 - 09:45	Plenary Lecture (Chair: Rolf Heumann) Pietro De Camilli /Yale [USA] <i>Crosstalk between intracellular membranes at contact sites not leading to fusion</i>	Audimax
09:45 - 10:30	FEBS National Lecture (Chair: Ralf Erdmann) Maya Schuldiner /Rehovot [IL] <i>You take the high road and I take the low road - Uncovering new routes for secretory pathway translocation</i>	Audimax
<p>With the FEBS National Lecture the Federation of European Biochemical Societies honors a distinguished scientist with a significant international reputation for fundamental contributions to the fields of biochemistry and molecular biology.</p> 		
10:30 - 11:00	Coffee break	Audimax
11:00 - 11:45	Plenary Lecture (Chair: Konstanze Winklhofer) Linda Partridge /Cologne [DE] <i>Eating to live</i>	Audimax
11:45 - 12:30	Plenary Lecture (Chair: Stefan Raunser) Andrew Carter /Cambridge [UK] <i>Transporting cargo over long distances: insights from dynein/dynactin structures</i>	Audimax
12:30 - 13:30	Lunch break	Audimax

Monday, Sept. 25

12:30 - 13:30	Meet the Prof 1 (Chair: Henning Jacobsen) Guest: Maya Schuldiner /Rehovot [IL]	Hall 4
<p>(for students only, organized by the Junior GBM)</p> <p>In an informal atmosphere you will get the chance to ask the questions which keep you up at night - e.g. how do I make a career in science? Did the speaker have fun on his/her scientific path and which experiences were decisive? You are welcome to join and ask further questions (a registration is required).</p>		
12:40 - 15:00	Lunch Session (LS 1A, Chairs: Maxime Dohan/ Hendrik Schöneborn) Perspectives towards the magnetic control of the nervous system	Hall 2a
<p>Manipulating cell signaling pathways with magnetic nanoactuators is an emerging method for patient-derived cell therapies of neurodegenerative disorders. While curative pharmacological treatments are not in sight, this new research field is considered very promising to reestablish neuronal circuits in a pathologically affected brain using functionalized magnetic nanoparticles. Especially, this symposium addresses the topic of magnetogenetics, which is an alternative approach arising to the field of optogenetics.</p>		
12:40 - 13:10	Maxime Dahan /Paris [FR] <i>Magnetic control of intracellular dynamics</i>	
13:10 - 13:20	Emilie Secret /Paris [FR] <i>Design and bio-functionalization of magnetic nanoparticles for intra-cellular remote control of signaling pathways</i>	
13:20 - 13:50	Arnd Pralle /Buffalo [US] <i>Remote magnetothermal deep-brain neuromodulation in freely behaving animals</i>	
13:50 - 14:20	Vittoria Raffa /Pisa [IT] <i>Mechanotransduction of axonal growth: effect of pico-Newton forces</i>	

Schedule

14:20 - 14:30	Selina van der Meer /Essen [DE] <i>Attachment of protein-targeting molecules to the surface of ultrasmall gold nanoparticles (2 nm) by click chemistry</i>
14:30 - 15:00	Olivia Masseck /Bochum [DE] <i>Illuminating the serotonergic system - Modulation of GPCR signaling by light</i>

13:30 - 15:00

Lunch Session (LS 1B, Chairs: Janosch Hennig, Kersten Raabe)
Publishing and Peer-review – a discussion

Hall 1

Editors from different scientific journals as well as other experts from the publishing field will present different views and insights in the publishing process and in future developments:

- Insights from journals'/publishing platform representatives into their approach in scientific publishing, what matters to get published
- Discuss the critical issue of how to assess impact & novelty in publishing: entry ticket or pitfall?
- Discuss alternative review processes realized by different journals: open review documents, double blind review processes
- Editor's role in the review process
- The future in publishing and alternative formats in publishing: open access journals, arXives and new formats, the cost of publishing

Guests:

Karin Dumstrei, EMBO Journal
Andrea Hoogenkamp-O'Brien, Elsevier/BBA
Lawrence Rajendran, founder of Science matters
Anke Sparmann, Nature

Monday, Sept. 25

13:30 - 15:00

Lunch Session (LS 1C, Chair: Klaudia Giehl)
Industry meets Academia

Hall 2b

Researchers from leading companies in the bioscience field will present their latest findings on different research topics.

Peter Sandner (Bayer AG)
From molecules to patients: Research on soluble guanylate cyclase (sGC) stimulators @ Bayer

Linn Schneider (Bayer AG)
What you see is what you get – advancing high throughput screening by Light

Michael Schraeml (Roche Diagnostics GmbH)
SlyD as a versatile scaffold platform technology

13:30 - 15:00

Lunch Session (LS 1D, Moderation: Kathrin Zinkant)
Public ethic discussion (in German)
„Schöne neue Gen-Welt: Fluch oder Segen für die Zukunft der Menschheit“

Hall 3

Gäste:

Steffen Augsberg
(Professor für öffentliches Recht, Universität Gießen, Mitglied des deutschen Ethikrats)

Hille Haker
(Professorin für Ethik an der Loyola University, Chicago)

Lennart Randau
(Max-Planck-Institut for Terrestrial Microbiology, Marburg)

Kathrin Zinkant
(Redakteurin der Süddeutschen Zeitung)

Schedule

15:00 - 17:00	Parallel Session (PS 1A, Chairs: Hanns Ulrich Zeilhofer/Carmen Villmann) Pain	Hall 1
15:00 - 15:30	Camilla Svensson /Stockholm [SE] <i>Novel roles of autoantibodies in arthritis-induced pain</i>	
15:30 - 15:50	Petra Schweinhardt /Montreal [CA] <i>Pain from the human perspective</i>	
15:50 - 16:00	Short talk: Volker Eulenburg /Erlangen [DE] <i>Inhibition of glycine transporter 1 as a novel approach for the treatment of chronic pain conditions</i>	
16:00 - 16:10	Short talk: Hans-Georg Breiting /New Kairo [ET] <i>Glucose – a potentiator of neuronal glycine receptors and possible modulator of nociceptive signaling</i>	
16:10 - 16:30	Alesia Tietze /Darmstadt [DE] <i>Employing neurotoxins as potent tools for personalized pain treatment</i>	
16:30 - 17:00	Hanns Ulrich Zeilhofer /Zürich [CH] <i>Restoring the spinal pain gate: Subtype-specific GABA-A receptor ligands against chronic pain</i>	
15:00 - 17:00	Parallel Session (PS 1B, Chair: Sebastian Hiller) Cell Signalling & Membrane Trafficking	Hall 2a
15:00 - 15:30	Franz Hagn /Garching [DE] <i>Phospholipid nanodiscs as a tool to study the structure and function of membrane proteins in a native environment</i>	
15:30 - 15:50	Patrick Scheerer /Berlin [DE] <i>Structural elucidation of the G-protein coupled receptor allosteric machine</i>	

Monday, Sept. 25

15:50 - 16:00	Short talk: Robert Ernst /Homburg [DE] <i>Crosstalk of lipids and protein folding stress: Lipid fingerprints of a stressed ER</i>	
16:00 - 16:10	Short talk: Daniel Schwerter /Bochum [DE] <i>Insight into receptor targeting by the peroxisomal AAA+ complex Pex1p/Pex6p of the yeast <i>Saccharomyces cerevisiae</i></i>	
16:10 - 16:30	Ioannis Manolaridis /Zürich [CH] <i>Structural studies of human ABC transporters</i>	
16:30 - 17:00	Thorsten Hugel /Freiburg [DE] <i>Dynamic interactions of proteins quantified by single molecule FRET</i>	
15:00 - 17:00	Parallel Session (PS 1C, Chair: Carola Hunte) Electron Transport Chains	Hall 3
15:00 - 15:30	Petra Fromme /Tempe AZ [US] <i>Title to be announced</i>	
15:30 - 15:50	Markus Schwarzländer /Bonn [DE] <i>How to stay flexible: Respiratory physiology in plant cells</i>	
15:50 - 16:00	Short talk: Wei-Chun Kao /Freiburg [DE] <i>The obligate respiratory supercomplex from the actinobacterium <i>Corynebacterium glutamicum</i></i>	
16:00 - 16:10	Short talk: Ingrid Span /Düsseldorf [DE] <i>Artificial cobalt-sulfur proteins as redox biocatalysts</i>	
16:10 - 16:30	Bruce Morgan /Kaiserslautern [DE] <i>Identification and characterization of novel intracellular glutathione transporters</i>	
16:30 - 17:00	José Antonio Enríquez Domínguez /Madrid [ES] <i>Super-assembly of respiratory complexes</i>	

Schedule

15:00 - 17:00	Parallel Session (PS 1C, Chair: Christian Hammann) RNA Regulation & Transport	Hall 2b
15:00 - 15:30	Michael Kiebler /Martinsried [DE] <i>The role of the RNA-binding protein Staufen2 in dendritic mRNA localization and memory</i>	
15:30 - 15:50	Florence Besse /Nice [FR] <i>Regulating neuronal granules in space and time</i>	
15:50 - 16:00	Short talk: Jan Medenbach /Regensburg [DE] <i>Drosophila Sister of Sex-lethal antagonizes Sxl-lethal-dependent splicing to maintain a male-specific gene expression pattern</i>	
16:00 - 16:10	Short talk: Markus T. Bohnsack /Göttingen [DE] <i>METTL16 is a N6-methyladenosine (m6A) methyltransferase that targets a conserved region of the U6 snRNA required for pre-mRNA splicing</i>	
16:10 - 16:30	Benedikt Beckmann /Berlin [DE] <i>Novel Methods to Investigate RNA-Protein Interactions</i>	
16:30 - 17:00	Stefanie Dimmeler /Frankfurt [DE] <i>lncRNAs in cardiovascular biology: from function to mechanism</i>	
17:00 - 17:30	Coffee break	Audimax
17:30 - 18:30	Mixed Topic Session (Chair: Thomas Günther-Pomorski)	Hall 1
17:30 - 17:40	Haike Antelmann /Berlin [DE] <i>Protein S-bacillithiolation functions in thiol-protection and redox regulation of the glyceraldehyde-3-phosphate dehydrogenase Gap in Staphylococcus aureus under hypochlorite stress</i>	
17:40 - 17:50	Raphael Böhm /Basel [CH] <i>Gating mechanism of the mitochondrial voltage-dependent anion channel</i>	

Monday, Sept. 25

17:50 - 18:00	Miriam Kutsch /Bochum [DE] <i>Molecular insights into the networking of human guanylate binding proteins</i>	
18:00 - 18:10	Dennis Quentin /Dortmund [DE] <i>Structural studies of a toxin loaded Type VI secretion (T6S) effector complex using electron microscopy</i>	
18:10 - 18:20	David Gnutt /Bochum [DE] <i>Intracellular modulation of protein folding stability probed by a SOD1 based folding sensor</i>	
<p>Three parallel Pecha Kucha sessions: Speed short talks - each talk takes only four minutes.</p> <p>The best talks of the three sessions will be awarded on the last conference day: NIKON sponsored three cameras (Coolpix W100).</p>		
17:30 - 18:35	Pecha Kucha: Protein Structure and Function (Chair: Andreas Reiner)	Hall 2a
17:30 - 17:34	Sara Abad Herrera /Bochum [DE] <i>Purification and characterisation of the yeast plasma membrane ATP binding cassette transporter Pdr11p</i>	
17:35 - 17:39	Andreas Baumruck /Darmstadt [DE] <i>Synthesis, purification and characterization of membrane proteins using in situ-cleavable solubilizing tail</i>	
17:40 - 17:44	Franziska Leidreiter /Dortmund [DE] <i>Structural insights into different Tc toxins of human and insect pathogenic bacteria</i>	
17:45 - 17:49	Matthias Massarczyk /Bochum [DE] <i>Local mode analysis: decoding IR spectra by visualizing molecular details</i>	
17:50 - 17:54	Florian Mayerthaler /Münster [DE] <i>FRET monitoring of conformational changes in a nonribosomal peptide synthetase</i>	

Schedule

17:55 - 17:59	Vishnupriya Pandey /Freiburg [DE] <i>Structural and functional characterization of the interaction of yeast cytochrome bc1 with cytochrome c</i>
18:00 - 18:04	Sabrina Pospich /Dortmund [DE] <i>Near-atomic structure of jasplakinolide-stabilized malaria parasite F-actin reveals the structural basis of filament instability</i>
18:05 - 18:09	Johannes Sommerkamp /Bochum [DE] <i>Crystallographic and biochemical studies reveal insight into phycoerythrobilin biosynthesis</i>
18:10 - 18:14	Stefan Tennigkeit /Bochum [DE] <i>Biophysical Investigations on microbial rhodopsins using theoretical methods</i>
18:15 - 18:19	Lukas Verhuelsdonk /Bochum [DE] <i>Recombinant expression of murine DNase1-like 2 in Pichia pastoris</i>
18:20 - 18:24	Katja Koßmann /Karlsruhe [DE] <i>HOBbing proteins with DNA</i>
18:25 - 18:29	Elisa-Charlott Schöneweiß /Essen [DE] <i>The collective behavior of spring-like motifs tethered to a DNA origami nanostructure</i>
17:30 - 18:30	Pecha Kucha: Cellular Signalling (Chair: Shirley Knauer) Hall 2b
17:30 - 17:34	Leonie Amstein /Frankfurt [DE] <i>In silico modeling of signaling pathways with focus on the characterization of signal flows</i>
17:35 - 17:39	Lena Berlemann /Bochum [DE] <i>A mitophagy-independent neuroprotective activity of the mitochondrial kinase PINK1</i>
17:40 - 17:44	Christine Blattner /Karlsruhe [DE] <i>Fam83F is a novel regulator of p53</i>

Monday, Sept. 25

17:45 - 17:49	Hassan Bukhari /Bochum [DE] <i>Intracellular signaling and dynamics of Alzheimer's disease relevant nuclear spheres</i>
17:50 - 17:54	Fabian den Brave /Martinsried [DE] <i>Function of SUMO in response to proteotoxic stress</i>
17:55 - 17:59	Mathias Girbig /Cambridge [UK] <i>Recombinant production and mutagenesis of the 23-subunit dy-nactin complex</i>
18:00 - 18:04	Semra Ince /Bochum [DE] <i>The C-terminus of the human guanylate-binding protein 1 regulates its unique GTPase activity</i>
18:05 - 18:09	Stefanie Mosel /Essen [DE] <i>A novel role for the anti-apoptotic protein Survivin in DNA repair and replication</i>
18:10 - 18:14	Sebastian Neumann /Bochum [DE] <i>Ha-Ras mediated neuroprotection – involvement of plasma membrane localized Voltage-dependent anion channel 1 (VDAC-1)?</i>
18:15 - 18:19	Elisabeth Schröder /Essen [DE] <i>TFIIA transcriptional activity is controlled by a "cleave-and-run" Exportin-1/Taspase 1-switch</i>
18:20 - 18:24	Philipp Wolf /Leipzig [DE] <i>Post-translational labeling of cardiovascular receptors to investigate receptor dimerization</i>
17:30 - 18:30	Pecha Kucha: Subcellular Studies (Chair: Ralf Erdmann) Hall 3
17:30 - 17:34	Alexander Bird /Dortmund [DE] <i>A new mechanism for clathrin stabilization of microtubules via adaptor-like interactions on the mitotic spindle</i>
17:35 - 17:39	Britta Eggers /Bochum [DE] <i>Proteomic characterization of murine muscle fiber types via laser-microdissection and LC MS/MS mass spectrometry</i>

Schedule

17:40 - 17:44	Philippe Fuchs /Bonn [DE] <i>Re-modelling plant mitochondrial respiration during drought</i>
17:45 - 17:49	Astrid Gesper /Bochum [DE] <i>Pitfalls of using total protein content for normalization of membrane proteins</i>
17:50 - 17:54	Jean-Noël Grad /Essen [DE] <i>Targeting protein-protein interactions via supramolecular ligands - Mechanistic insight by molecular modeling</i>
17:55 - 17:59	Christian Heid /Essen [DE] <i>Molecular tweezers for specific protein surface recognition</i>
18:00 - 18:04	Sebastian Jung /Bochum [DE] <i>A comparative analysis of Sec61- and SecY-mediated transport of intrinsically disordered proteins</i>
18:05 - 18:09	Wasifa Nuriev /Lübeck [DE] <i>Nonstructural proteins 7 / 8 of Middle-East respiratory syndrome coronavirus: Primase or RNA-dependent RNA polymerase?</i>
18:10 - 18:14	Dennis Paliga /Bochum [DE] <i>Toxin mediated delivery of functional Nurr1 fusion protein as promising tool for programming of dopaminergic cells</i>
18:15 - 18:19	Elena Porcellato /Heidelberg [DE] <i>Establishment of an in vivo and cell-specific method for the identification of palmitoyltransferase-interacting proteins in Drosophila using BioID</i>
18:20 - 18:24	Van Loi Vu /Berlin [DE] <i>Real-time imaging of the bacillithiol redox potential in the human pathogen Staphylococcus aureus using a genetically encoded bacilliredoxin-fused redox biosensor</i>

Monday, Sept. 25

18:45 - 19:30	Plenary Lecture (Chair: Klaus Gerwert) Peter Hegemann /Berlin [DE] <i>Algal sensory photoreceptors, all biochemistry at the end</i>	Audimax
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19:30 - 22:00	Poster discussion (with Pretzels & Beer)	Audimax
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19:30 - 20:30 odd poster numbers
20:30 - 21:30 even poster numbers

Together with MAGNEURON and VBIO-NRW, GBM will award five poster prizes (300 Euro each prize) on the last day of the conference.



Schedule

09:00 - 11:00	Parallel Session (PS 2A, Chair: Michael Thumm) Age related Pathologies & Autophagy	Hall 2a
09:00 - 09:30	Nektarios Tavernarakis /Heraklion [GR] <i>Mitophagy in neurodegeneration and ageing</i>	
09:30 - 09:50	Short talk: Jana Deitersen /Düsseldorf [DE] <i>Identification of autophagy-modulating natural products and derivatives</i>	
09:50 - 10:00	Short talk: Bernd Gilsbach /Tübingen [DE] <i>Characterization of LRRK2</i>	
10:00 - 10:10	Short talk: Panagiotis Athanasopoulos /Groningen [NL] <i>The role of PP2A in the complex intramolecular activation of LRRK2</i>	
10:10 - 10:30	Martin Graef /Köln [DE] <i>Sophisticated pathways link fatty acid metabolism and autophagy</i>	
10:30 - 11:00	Konstanze F. Winklhofer /Bochum [DE] <i>Ubiquitin signaling in neurodegenerative diseases</i>	
09:00 - 11:00	Parallel Session (PS 2B, Chair: Ralf Erdmann) Subcellular Organisation	Hall 2b
09:00 - 09:30	David Komander /Cambridge [UK] <i>Degrading mitochondria by mitophagy – a new ubiquitin playground</i>	
09:30 - 09:50	Vicki Gold /Exeter [UK] <i>Mitochondrial protein import studied by cryoET</i>	
09:50 - 10:00	Short talk: Thomas Becker /Freiburg [DE] <i>Connection of mitochondrial protein and metabolite transport</i>	

Tuesday, Sept. 26

10:00 - 10:10	Short talk: Bianca Schrul /Homburg [DE] <i>An unexpected liaison of lipid droplets and peroxisomes – PEX19-mediated protein targeting to lipid droplets</i>	
10:10 - 10:30	Harald Platta /Bochum [DE] <i>Involvement of vacuolar proteins in the biogenesis of peroxisomes</i>	
10:30 - 11:00	Martin van der Laan /Homburg [DE] <i>Functional Architecture of the Mitochondrial Inner Membrane</i>	
09:00 - 11:00	Parallel Session (PS 2C, Chair: Rüdiger Hell) Molecular Machines in Bioenergetics	Hall 3
09:00 - 09:30	Werner Kühlbrandt /Frankfurt [DE] <i>CryoEM of mitochondrial membrane protein complexes</i>	
09:30 - 09:50	Veronica G. Maurino /Düsseldorf [DE] <i>Induced production of H₂O₂ from chloroplasts: a bioengineering approach and its applications</i>	
09:50 - 10:00	Short talk: Mathias Lübben /Bochum [DE] <i>Zn-ATPase: observation of hydrolysis reaction by vibrational spectroscopy</i>	
10:00 - 10:10	Short talk: Marc Nowaczyk /Bochum [DE] <i>Application of the TwinStrep-tag/Streptactin system for purification of photosynthetic membrane protein complexes from <i>T. elongatus</i></i>	
10:10 - 10:30	Guy Hanke /London [UK] <i>Dynamic interactions at the end of the linear electron transport chain</i>	
10:30 - 11:00	Ulrich Brandt /Nijmegen [NL] <i>Molecular Mechanism and Regulation of Mitochondrial Complex I</i>	

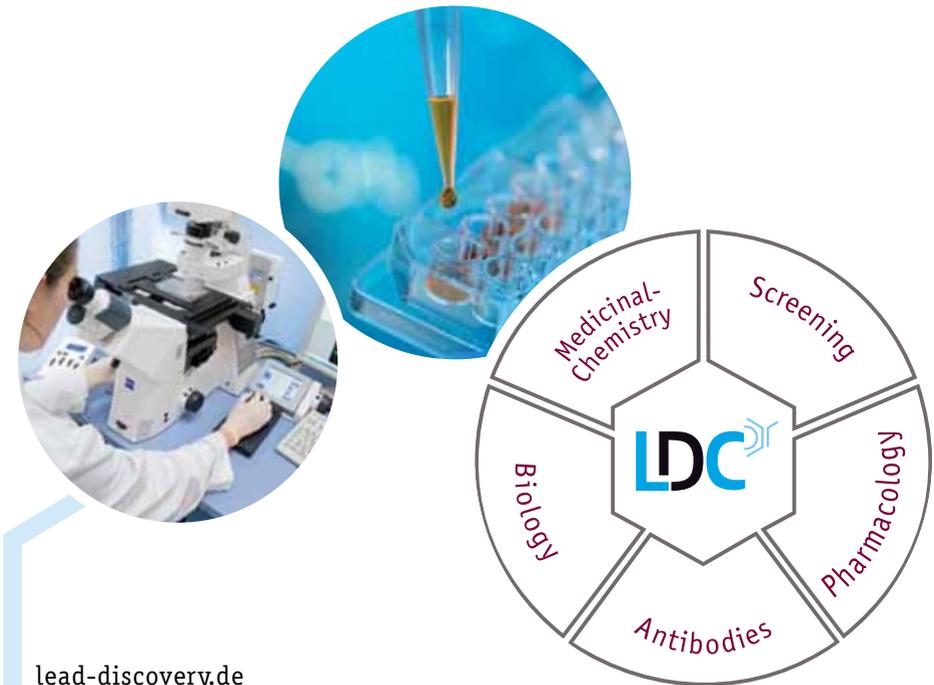
Schedule / Tues., Sept. 26

09:00 - 11:00	Parallel Session (PS 2D, Chair: Lennart Randau) Genome-editing & Macromolecular Structures	Hall 1
09:00 - 09:30	Stan J.J. Brouns /Wageningen [NL] <i>From understanding CRISPR immunity to CRISPR 2.0 applications</i>	
09:30 - 09:50	Daan Swarts /Zürich [CH] <i>Structural insights into CRISPR-Cas12a - a genome editing alternative to CRISPR-Cas9</i>	
09:50 - 10:00	Short talk: Felix Müller-Planitz /München [DE] <i>Structure and function of the chromatin remodeling enzyme ISWI</i>	
10:00 - 10:10	Short talk: Daniel Gleditsch /Marburg [DE] <i>Structural basis of CRISPR RNA-guided DNA recognition by a minimal Type I-Fv Cascade surveillance complex</i>	
10:10 - 10:30	Arwen Pearson /Hamburg [DE] <i>Catching macromolecules in the act: approaches for time-resolved structural biology</i>	
10:30 - 11:00	Beat Fierz /Lausanne [CH] <i>Multiscale dynamics of heterochromatin revealed by single-molecule fluorescence</i>	
11:00 - 12:30	Poster discussion/Coffee break	Audimax
all poster numbers (visit of the poster prize jury)		
Together with MAGNEURON and VBIO-NRW, GBM will award five poster prizes (300 Euro each prize) on the last day of the conference.		
12:30 - 13:30	Lunch break	Audimax



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Schedule

12:30 - 13:30 Meet the Prof 2 (Chair: Maren Lafrentz)
Guest: **Edward Lemke** /Heidelberg [DE] Hall 4

(for students only, organized by the Junior GBM)

In an informal atmosphere you will get the chance to ask the questions which keep you up at night - e.g. how do i make a career in science? Did the speaker have fun on his/her scientific path and which experiences were decisive? You are welcome to join and ask further questions. (a registration has been required)

12:30 - 13:30 Company presentation
Takara Bio Europe /Saint Germain en Laye [FR] Hall 1

Cornelia Hampe
*Footprint-free gene editing using CRISPR/
Cas9 ribonucleoprotein (RNP) delivery
and long ssDNA donor templates*



13:30 - 15:00 Lunch Session (LS 2A, Chair: Klaus Gerwert)
Spectroscopy & Diagnostics Hall 2a

In the session innovative, label free imaging techniques for the characterization of tissue and the analysis of body fluids will be presented by leading scientists. Using Raman and FTIR imaging, tumor tissue can be classified. Thereby, classical H&E staining and other laborious immunohistochemical techniques for tissue staining can be complemented by an automated, label free technique. State of the art approaches for the analysis of tumor tissue will be presented as well. In addition, recent studies on the early detection of neurodegenerative diseases will be presented. For example, Alzheimer's disease can be detected at a very early stage using the newly developed immuno ATR sensor on blood sample.

13:30 - 14:00 **Klaus Gerwert** /University Bochum [DE]
Label-free tissue classification by FTIR- and QCL-based IR-Imaging

Tuesday, Sept. 26

14:00 - 14:30 **Jürgen Popp** /Leibniz Institute of Photonic Technology Jena [DE]
Raman 4 clinical applications

14:30 - 14:40 **Matthias Godejohann** /MG Optical Solutions GmbH Utting [DE]
Whole slide, label free screening of tissue on clinically relevant time scales

14:40 - 15:00 **Andreas Kerstan** /Agilent Technologies Waldbronn [DE]
Modern Microscopes in Biomedical Research- about Ultra-High Mag Optics, Spatial resolution and Numeric Aperture (NA)

13:30 - 15:00 Lunch Session (LS 2B, Chair: Christine Blattner)
Industry meets Academia Hall 1

Researchers from leading companies in the bioscience field will present their latest findings on different research topics.

Ulrich Brinkmann (Roche Pharma Research)
Next generation antibody therapeutics: bispecific & multifunctional derivatives

Dennis Fiegen (Boehringer Ingelheim Pharma GmbH & Co. KG)
Fragment based screening at Boehringer Ingelheim: BRD4 BD1 as an example

Stefan Zielonka (Merck KGaA):
Antibody Hit Discovery using Yeast Surface Display

13:30 - 15:00 Lunch Session (LS 2C, Chair: Maren Lafrentz
Henning Jacobsen) Hall 2b
Junior GBM Session

(organized by the Junior GBM)

13:30 - 14:00 **Stefan Jakobs** /Göttingen [DE]
Live cell super-resolution microscopy with switchable fluorescent proteins

Schedule

14:00 - 14:30 **Lars Redecke** /Lübeck [DE]
Small crystals, intense lasers, and living cells - Novel strategies for structural biology

14:30 - 15:00 **Karine dos Santos** /Berlin [DE]
Intra-molecular regulation of nucleotide binding to the Ski2- like RNA helicase Brr2

13:30 - 15:00 Lunch Session (LS 2D)
Treffen der GBM-Studiengruppensprecher Hall 3

(for spokesmen/spokeswomen of GBM studygroups only)

15:00 - 17:00 Parallel Session (PS 3A, Chair: Klaudia Giehl)
Cancer & Inflammation Hall 2a

15:00 - 15:30 **Klaus Pantel** /Hamburg [DE]
Circulating tumor cells in cancer patients: Biology and clinical implications

15:30 - 15:50 **Marcus Bantscheff** /Heidelberg [DE]
Drug action on the proteome

15:50 - 16:00 Short talk:
Astrid Hensel /Essen [DE]
Taspase 1 cleavage regulates Myosin 1f-induced formation of cell protrusions

16:00 - 16:10 Short talk:
Tobias Fischer /Leipzig [DE]
Synthesis and biological evaluation of cyclic Chemerin-9 analogs

16:10 - 16:30 **Sandra van Vliet** /Amsterdam [NL]
A bitter sweet symphony: how tumor glycans orchestrate immune evasion

16:30 - 17:00 **Celso Albuquerque Reis** /Porto [PO]
The role of the glycoproteome alterations in gastrointestinal cancer and its clinical applications

Tuesday, Sept. 26

15:00 - 17:00 Parallel Session (PS 3B, Chair: Michael Thumm)
Systems Biology & Autophagy Signal Control Hall 1

15:00 - 15:30 **Roswitha Krick** /Göttingen [DE]
Dynamic fine-tuning of selective autophagy

15:30 - 15:50 **Peter Mayrhofer** /Paris [FR]
Decision making in autophagy – How to loose specificity

15:50 - 16:00 Short talk:
Yaowen Wu /Dortmund [DE]
Anti-autophagy mechanism of the Legionella pneumophila

16:00 - 16:10 Short talk:
Sergii Shydlovskiy /Bochum [DE]
The tail of human guanylate-binding protein 1 is switched by GTP and triggers polymerization and membrane binding

16:10 - 16:30 **Sebastian Schuck** /Heidelberg [DE]
Selective microautophagy of the Endoplasmic Reticulum

16:30 - 17:00 **Simone Fulda** /Frankfurt [DE]
Molecular Targeting of Autophagic Cell Death

15:00 - 17:00 Parallel Session (PS 3C, Chair: Thomas Schrader)
Supramolecular Chemistry on Disease-relevant Structures Hall 3

15:00 - 15:30 **Carsten Schmuck** /Essen [DE]
Going beyond nature: Using supramolecular binding motifs to modify the structure and function of peptides

15:30 - 15:50 **Barbara Saccà** /Essen [DE]
Hierarchical assembly of DNA filaments with designer elastic properties

15:50 - 16:00 Short talk:
Christine Beuck /Essen [DE]
NMR investigation of supramolecular ligand binding to proteins

Schedule

16:00 - 16:10	Short talk: Andreas Brunschweiler /Dortmund [DE] <i>Finding bioactive drug-like compounds with genetically tagged screening libraries</i>
16:10 - 16:30	David Margulies /Rehovot [IL] <i>Molecules that generate 'Fingerprints': A new class of fluorescent probes for medical diagnosis and chemical biology</i>
16:30 - 17:00	Ivan Huc /Pessac [FR] <i>Recognition of biomolecules with aromatic foldamers</i>
15:00 - 17:00	Parallel Session (PS 3D, Chair: Andreas Reiner) Emerging Analytical Methods Hall 2b
15:00 - 15:30	Cristina Cardoso /Darmstadt [DE] <i>The art of delivery: labeling and manipulating intracellular targets</i>
15:30 - 15:50	Karsten Boldt /Tübingen [DE] <i>Dissecting the structure of protein complexes by sub-complex analysis and XL-MS</i>
15:50 - 16:00	Short talk: Neha Jain /Dortmund [DE] <i>Quantitative mapping of the interaction surface of nucleosome with the chromatin remodeler, RSC, in vivo</i>
16:00 - 16:10	Short talk: Wignand Mühlhäuser /Freiburg [DE] <i>Optogenetic AKT and RAF for the study of oncogenic pathways and processes</i>
16:10 - 16:30	Edward Lemke /Heidelberg [DE] <i>Decoding molecular plasticity in the dark proteome</i>
16:30 - 17:00	Albert J.R. Heck /Utrecht [NL] <i>Probing protein assemblies and interactions by hybrid mass spectrometry approaches</i>

Tuesday, Sept. 26

17:00 - 17:30	Coffee break	Audimax
17:30 - 18:30	Fritz Lipmann Lecture (Laudatio: Fred Wittinghofer) Carol Robinson /Oxford [UK] <i>Mass spectrometry - from folding proteins to rotating motors</i>	Audimax
The Lipmann Lecture was initiated by Feodor Lynen on the occasion of the 75th birthday of Fritz Lipmann. GBM awards the Lipmann Lecture as a plenary talk to an outstanding scientist. This year's Lipman lecturer will be Dame Carol Robinson (Oxford, UK).		
18:30 - 19:00	Otto Meyerhof Prize (Laudatio: Ulrich Brandt) Jan Riemer /Cologne [DE] <i>The way of the electron - oxidizing proteins in mitochondria</i>	Audimax
Jan Riemer will receive the Otto Meyerhof award for junior scientists for his research on mechanisms of mitochondrial biogenesis, especially in the intermembrane space, the oxidative protein folding in mitochondria and communication of mitochondria with the overall cell.		
		
19:30 - 20:15	Public Lecture (Chair: Ulrich Kück) Hanns Hatt /Bochum [DE] <i>Immer der Nase nach: Neue Wirkmechanismen von Duftstoffen im menschlichen Körper</i>	Audimax
(joint lecture of the GBM and GfG, in German language)		
20:30	Conference dinner	
The event will take place at the "Henrichshütte", a former iron-works, now a museum with a restaurant. We will provide a shuttle service from the conference venue to the dinner location and back.		

Schedule / Wed., Sept. 27

09:00 - 09:45	Plenary Lecture (Chair: Alfred Wittinghofer) Jason Chin /Cambridge [UK] <i>Reprogramming the genetic code</i>	Audimax
09:45 - 10:30	Plenary Lecture (Chair: Frank Kempken) Joseph Heitman /Durham [US] <i>RNAi-dependent epimutations evoke transient anti-fungal drug resistance</i>	Audimax
10:30 - 11:00	Coffee break	Audimax
11:00 - 11:45	Plenary Lecture (Chair: Andrea Musacchio) Kim Nasmyth /Oxford [UK] <i>The topology of cohesin's association with chromosomes and its regulation by HAWKs</i>	Audimax
11:45 - 12:30	Closing Lecture (Chair: Thomas Günther-Pomorski) Reinhard Jahn /Göttingen [DE] <i>Membrane fusion mediated by SNARE proteins</i>	Audimax
12:30 - 13:00	Poster- and Pecha Kucha-prizes & final remarks	Audimax
Rolf Heumann (Conference Organizer) Johannes Herrmann (President of the GBM)		

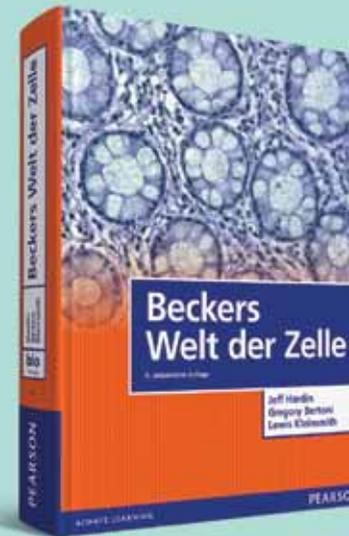


Pearson

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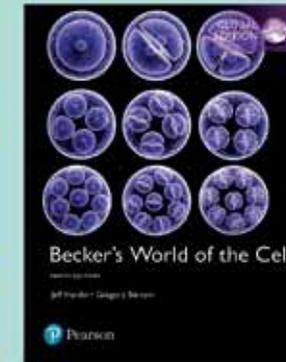
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2. Satellitensymposium

des GBM-Arbeitskreises „Studium Molekulare Biowissenschaften“

23. - 24. September 2017

Im Rahmen der diesjährigen GBM-Herbsttagung „Molecular Basis of Life“ in Bochum wird im Vorfeld der Arbeitskreis „Studium Molekulare Biowissenschaften“ sein 2. Satellitensymposium ausgerichtet.

Der Sprecher Rolf Heumann und sein Stellvertreter Thomas Günther-Pomorski laden alle Interessierten und Vertreter der Studiengänge rund um die „Molekularen Biowissenschaften“ herzlich ein, ihre Bachelor- und Masterprogramme an Hand eines strukturierten Posters vorzustellen. Zusammen mit internen und externen Experten sollen aktuelle Themen wie Qualifikationskatalog des Biochemie-Studiums, die Digitalisierung der Lehre, Studiengangphase, Karrierewege in den Molekularen Biowissenschaften sowie die internationale Harmonisierung der Studiengänge diskutiert werden.

Wir freuen uns auf spannende Diskussionen!

Samstag,
23.09.2017

Ruhr-Universität Bochum,
Veranstaltungszentrum, Ebene 04, Saal 1

12:00 - 14:00

Anmeldung und Aufhängen der Poster

14:00 - 14:15

Begrüßung & Einführung
Rolf Heumann und Thomas Günther-Pomorski (Ruhr-Universität)

14:15 - 14:35

Jürgen Alves /Medizinische Hochschule Hannover
Qualifikationskatalog zum Bachelor- und Masterstudium Biochemie

Programm

14:35 - 14:55

Jürgen Handke /Universität Marburg
Hochschullehre im 21. Jahrhundert – Neue Lehr- und Kursformate

14:55 - 15:15

Carsten Roller /VBIO
Aktueller Stand der Änderungen im Akkreditierungssystem ab 2018

15:15 - 15:30

Pause

15:30 - 15:50

Rosmarie Pulz /Universität Lübeck
Karrierewege in den Molekularen Biowissenschaften

15:50 - 16:10

Maren Lafrentz /Junior GBM
Transparenz der Lehre

16:10 - 16:30

Gül Akdogan /FEBS Education Committee
FEBS Education Activities: Skills and Key Knowledge for Molecular Life Science Graduates

16:30 - 18:00

Pause & Posterdiskussion

Sonntag,
24.09.2017

Ruhr-Universität Bochum,
Veranstaltungszentrum, Ebene 04, Saal 1

09:00 - 10:30

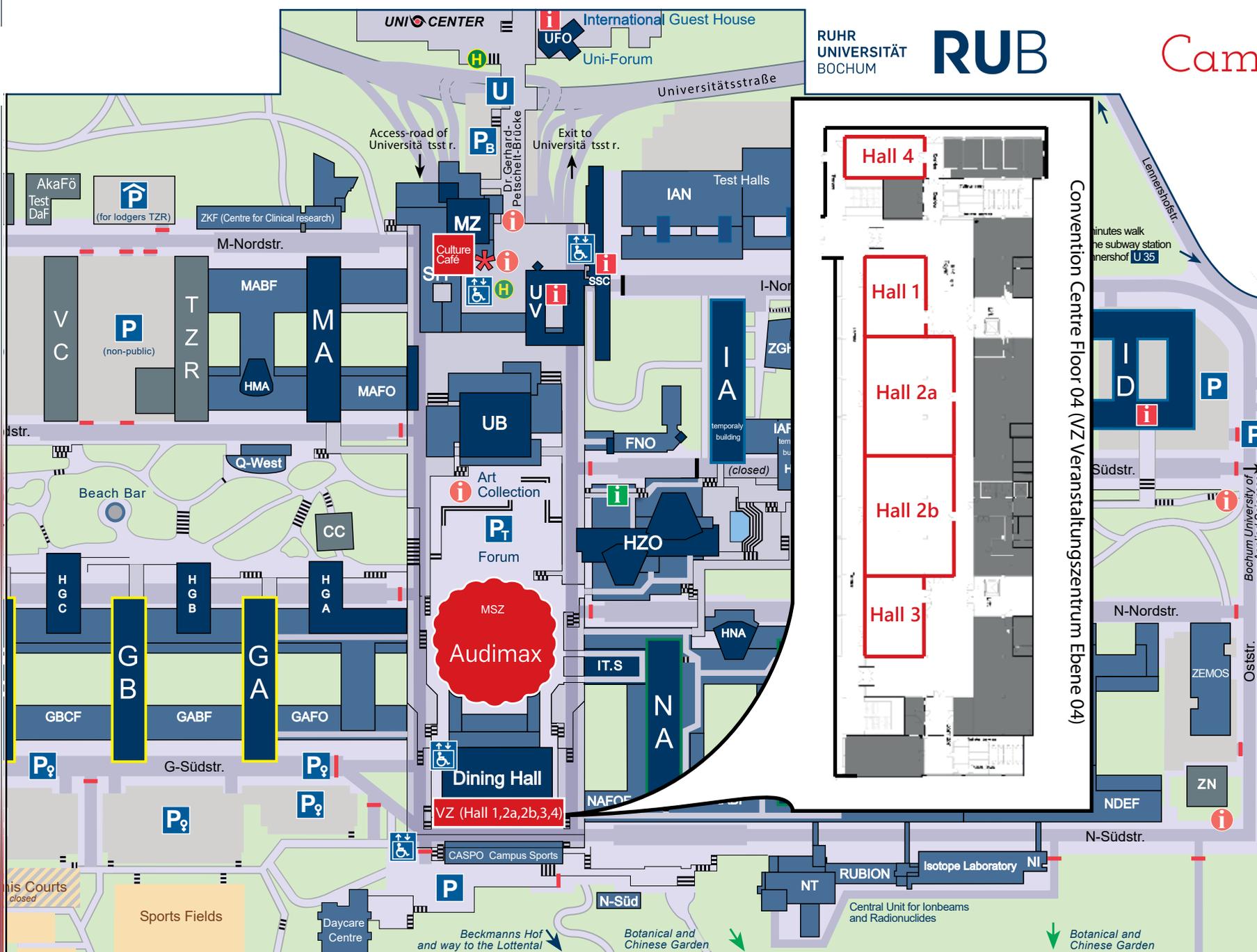
Gruppendiskussion

10:30 - 11:00

Präsentation der Ergebnisprotokolle

11:30 - 13:00

Plenumsdiskussion



www.rub.de

- i** Information Desk
- i** Information
- i** Internal Information
- ♿** Outside Lift
- H** Bus Stop
- Gate (Access Restricted)
- Road Closed

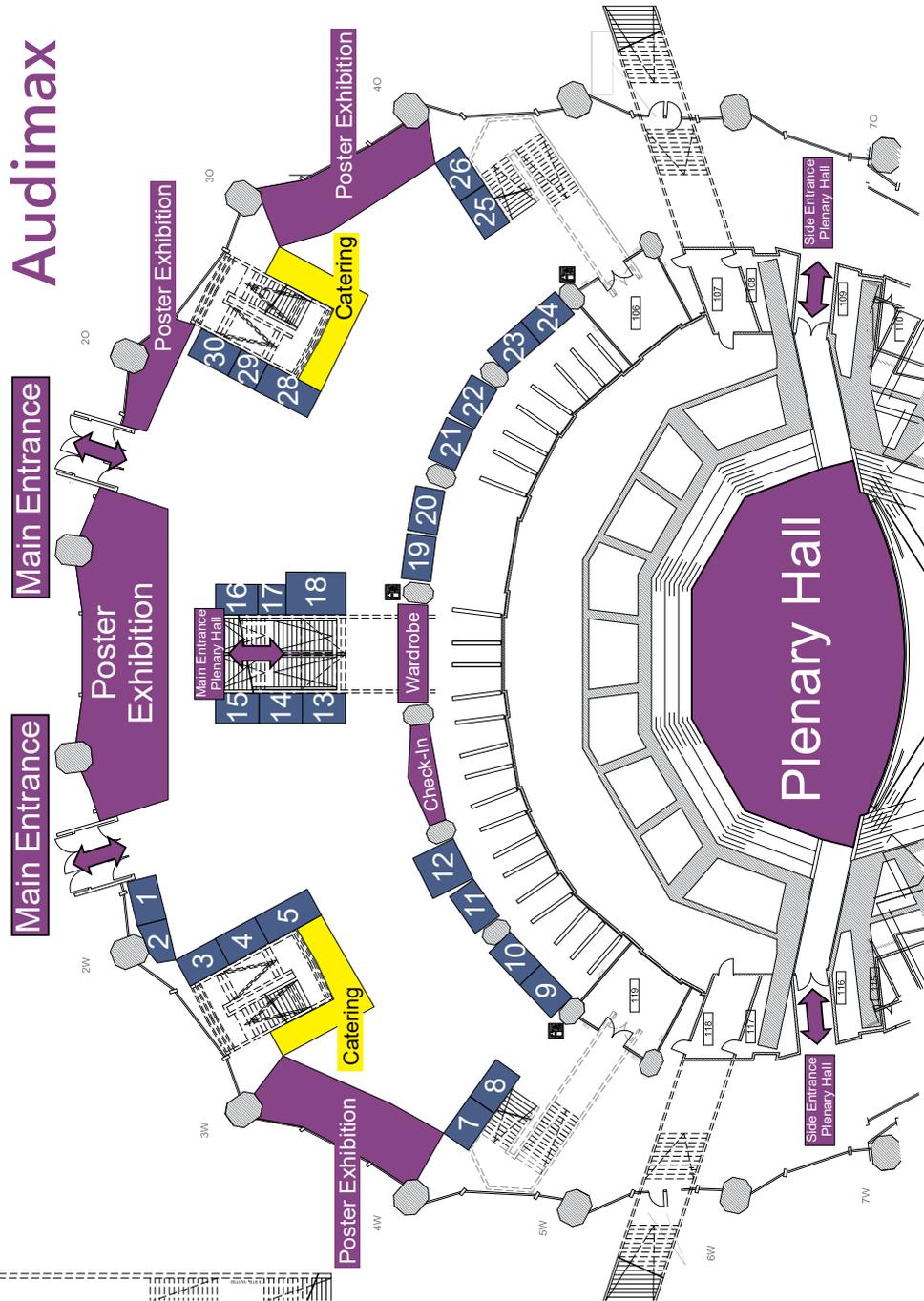
- P** Parking Garage
- P** Parking Area
- P♀** Women's Parking Area
- P♂** Visitor Parking
- P_T** Central Parking Garage (Underground Parking Beneath the Campus)

- U** Subway Station
- BMZR** Centre for Biomedicine Ruhr
- CASPO** Campus Sports Ground
- CC** Campus Center
- FNO** Forum Northeast
- HZO** Lecture Hall Centre
- MSZ** Multimedia Support Centre
- MZ** Arts Centre
- IT.S** IT.SERVICES

- SH** Student Services
- SSC** Student Service Center
- TZR** Technology Centre Ruhr
- UB** University Library
- UV** University Administration
- VC** Vita Campus
- VZ** Convention Centre
- ZGH** Center for Interface-Dominated High Performance Materials
- ZN** Centre for Neuroinformatics

Comments:
 GA, IA, MA, NA = Central Building of Row
 Theme Colours: Yellow Shape = G-Row; Red = M-Row;
 Blue = I-Row; Green = N-Row
 GAFO = Flat Area of the GA Building (Example)
 HIA = Lecture Hall of the IA Building (Example)
 Explanation (Example): NA 1/128: Building NA, Floor 1, Room 128
 Remark: Floor 1 = 1st Floor; Floor 01 = 1st Floor Downstairs
 * Downstairs Use Lift or Stairs to Get to the Print/Copy Office and
 i and also ♿ 20, 370, 377

Exhibition Map



List of Exhibitors

Please visit the booths of our industrial partners!

Company	Booth Number	Company	Booth Number
Cyagen Biosciences GmbH	1	Springer Nature	16
academics GmbH	2	Implen GmbH	17
MP Biomedicals	3	BIOZOL Diagnostica Vertrieb GmbH	18
ChromoTek	4	Wako Chemicals GmbH	19
TAKARA BIO EUROPE SAS	5	New England BioLabs GmbH	20
Biozym Scientific GmbH	7	LI-COR Biosciences	21
Visitron Systems GmbH	8	Acris Antibodies - OriGene EU	22
Xceltis GmbH	9	Macherey-Nagel GmbH & Co. KG	23
PROMEGA GmbH	10	GATC Biotech	24
BMG LABTECH GmbH	11	Sarstedt AG & Co.	25
Zymo Research Europe GmbH	12	Schaefer Technologie GmbH	26
Nikon GmbH Microscope Solutions	13	Agilent Technologies	28
Proteintech Europe Ltd	14	Gilson International Deutschland	29
Macrogen Europe	15	SERVA Electrophoresis GmbH	30

Supporters

We are thankful for the kind support from:



General Information

Abstracts

Please download and print out the abstracts for posters and talks on <http://molecular-basis-of-life.org>.

A very limited number of print outs are available at the registration desk.

Internet

There will be wireless LAN access points in the Audimax and Veranstaltungszentrum (VZ with lecture halls 1, 2a, 2b, 3, 4).

The access data are in the envelope you will receive with your check-in after or it is available at the registration desk.

Lunch and Coffee Breaks

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

A limited number of brown-bag lunch is available for free at the Audimax during the lunch breaks on Monday and Tuesday.

Poster Sessions/ Poster Prizes

Session I
Sunday, Sept 24
19:30 - 20:30 even poster numbers
20:30 - 21:30 odd poster numbers

Session II
Monday, Sept 25
19:30 - 20:30 odd poster numbers
20:30 - 21:30 even poster numbers

Session III
Tuesday, Sept 26
11:00 - 12:30 all poster numbers
(visit of the poster prize jury)

General Information

Please see the poster list on page 42ff. for your poster number.

Together with MAGNEURON and VBIO-NRW, GBM will award five poster prizes (300 Euro each prize) on the last day of the conference.

All prizes will only be handed out to awardees that attend the award ceremony in person!

Registration

	Opening hours
Sunday, Sept. 24	14:00 - 18:00
Monday, Sept. 25	08:00 - 18:00
Tuesday, Sept. 26	08:30 - 17:00
Wednesday, Sept. 27	08:30 - 13:00

Telephone during the conference +49 69 66056710

Late registration

An on-site registration in Bochum is possible. The registration fees are:

Regular	485 €
PhD student	125 €
Student undergraduate	100 €
Retiree	210 €

We offer a special rate for members of the GBM, DGZ, DECHEMA, GdCH or VAAM (with proof of the membership):

Regular	395 €
PhD student	100 €
Student undergraduate	75 €
Retiree	160 €

General Information

Social Events

Sept. 24 (Sunday), 19:15 /Audimax
Get together at the Posters
(with Pretzels & Beer)

Sept. 25 (Monday), 19:15 /Audimax
Get together at the Posters
(with Pretzels & Beer)

Sept. 25 (Monday), 22:00 /Kultur Café
Party organized by Junior GBM: all participants are welcome

Sept. 26 (Tuesday), 20:15
Social evening/Networking dinner (registration required)
The event will take place at the "Henrichshütte", a former iron-works, now a museum with a restaurant.

A guided tour through this unique industrial heritage including the blast furnace (166 steps) will be offered to a limited number of 75 participants.

We will provide a shuttle service from the conference venue to the dinner location and back.

List of Posters

Name	Poster Nr	Title
Ahrens, Nicole	OT - 22	Functional analysis of zebrafish specific opsin kinases
Al-Furoukh, Natalie	GE - 02	Biochemical Characterization of a Novel Nuclease present in the Mitochondria and in the Nucleus of Human Cells
Aljakouch, Karim	CA - 26	Resistance, selectivity, distribution, and metabolism of tyrosine kinase inhibitors in cancer cells by Raman spectral imaging
Amstein, Leonie	CS - 41	In silico modeling of signaling pathways with focus on the characterization of signal flows
Angersbach, Lena	CS - 16	Identification of RBR E3 ubiquitin ligases that can compensate Parkin deficiency
Antelmann, Haike	OT - 37	Protein S-bacillithiolation functions in thiol-protection and redox regulation of the glyceraldehyde-3-phosphate dehydrogenase Gap in Staphylococcus aureus under hypochlorite stress
Assafa, Tufa	CA - 19	Interaction of pro-apoptotic spin-labelled BIM BH3 peptides with solvents and Bcl-2 proteins
Athanasopoulos, Panagiotis	AP - 03	The role of PP2A in the complex intramolecular activation of LRRK2
Bäcker, Sandra	SM - 02	Dissection and Modulation of (patho)biological Survivin Functions by supramolecular Ligands
Baumruck, Andreas	OT - 42	Synthesis, purification and characterization of membrane proteins using in situ-cleavable solubilizing tail
Becker, Thomas	SC - 02	Connection of mitochondrial protein and metabolite transport
Bender, Julian	AM - 03	Structure and dynamics of the neuronal calcium-sensor Synaptotagmin-1
Berlemann, Lena	CS - 14	A mitophagy-independent neuroprotective activity of the mitochondrial kinase PINK1
Beuck, Christine	SM - 07	NMR investigation of supramolecular ligand binding to proteins
Bialas, Nataniel	OT - 29	Fluorescence imaging of the interactions between ultra-small gold nanoparticles and bacteria
Bird, Alexander	OT - 05	A new mechanism for clathrin stabilization of microtubules via adaptor-like interactions on the mitotic spindle
Blattner, Christine	OT - 13	Fam83F is a novel regulator of p53
Bleicken, Stephanie	CA - 20	Membrane-embedded Bcl-2 proteins: Insights into topologies and interactions
Böhm, Raphael	OT - 20	Gating Mechanism of the Mitochondrial Voltage-Dependent Anion Channel
Bohnsack, Markus T.	RR - 02	METTL16 is a N6-methyladenosine (m6A) methyltransferase that targets a conserved region of the U6 snRNA required for pre-mRNA splicing

(sorted by presenting author)

Name	Poster Nr	Title
Boland, Andreas	GE - 01	Cryo-EM structure of a metazoan separase-securin complex at near-atomic resolution
Bommer, Ulrich	CA - 02	Role and regulation of translationally controlled tumour protein TCTP in colorectal cancer
Boutouja, Fahd	CS - 22	Involvement of vacuolar proteins in the biogenesis of peroxisomes.
Boutouja, Fahd	SB - 03	Rapamycin-induced peroxisome degradation (R.I.P.): a novel degradation mode for peroxisomes.
Breitinger, Hans-Georg	PA - 01	Glucose – a potentiator of neuronal glycine receptors and possible modulator of nociceptive signaling
Brinkmeier, Rebecca	SB - 02	Ubiquitination/Deubiquitination-dynamics of the PTS1-receptor Pex5p regulate the matrix protein into peroxisomes.
Brömer, Meike	RR - 04	A de-ubiquitylating enzyme as new stress granule component
Bruns, Oliver	CA - 22	Next generation in vivo optical imaging with novel short-wave infrared emitting probes
Brunschweiler, Andreas	SM - 05	Finding bioactive drug-like compounds with genetically tagged screening libraries
Brylski, Oliver	OT - 40	Classification of PAPS-synthase mutants and their stability in the cellular environment
Budde, Heidi	CS - 08	The soluble adenylyl cyclase as a novel pivotal player in ISO/ICI-induced cardiac hypertrophy
Bukhari, Hassan	CS - 17	Intracellular signaling and dynamics of Alzheimer's disease relevant nuclear spheres
Cavaller, Victor	SC - 08	Hypercyclical patterns in the neuron cell: integration of information processing at cellular scale
Cimiotti, Diana	OT - 46	The polymorphism V158M in myosin binding protein C affects its binding to cardiac troponin containing cardiac troponin I variants inducing infantile restrictive cardiomyopathy.
Dabiri, Yasamin	CA - 11	The essential role of TAp73 in bortezomib-induced apoptosis in p53- deficient colorectal cancer cells
Daikh, Badis	OT - 01	Follow-up of Healing of skin wounds by topical application of platelet-rich plasma in sheep.
David, Della	AP - 13	Disruption of protein quality control has opposite effects on age-dependent protein aggregation in different tissues
Deitersen, Jana	AP - 11	Identification of autophagy-modulating natural products and derivatives
den Brave, Fabian	AP - 08	Function of SUMO in response to proteotoxic stress
Dietzel, Irmgard D.	OT - 38	FUDr enables flexible adjustment of neuron/glia ratio in culture

List of Posters

Name	Poster Nr	Title
Divvela, Satya Srirama Karthik	OT - 19	Atoh8 in reprogramming and maintenance of pluripotency
Do Yoo, Young	CS - 11	Romo1 is a mitochondrial non-selective cation channel with viroporin-like characteristics
Dreier, Max-Aymelt	OT - 48	Red Color-Tuned variants of Channelrhodopsin-2 investigated by Time Resolved FTIR
Durzmaz, Burak	CA - 23	Effect of different extraction techniques on anti-inflammatory activity of propolis
Eberth, Sonja	CA - 08	Deciphering targets and function of microRNAs that play a role in aggressive B cell lymphomas
Eggers, Britta	OT - 08	Proteomic Characterization of Murine Muscle Fiber Types via Lasermicrodissection and LC MS/MS Mass Spectrometry
Ehrke, Alexander	CS - 18	The F-BAR protein NOSTRIN regulates diastolic and systolic function of the heart
Eickelbeck, Dennis	CS - 03	Switching GPCR Signaling On and Off with Light: Melanopsin Variants for Transient versus Sustained Activation
el Maaty, Mohamed Abu	CA - 13	1,25(OH)2D3 reduces TXNIP expression in breast cancer cells through a cross-talk between metabolic rewiring and protein degradation
el Maaty, Mohamed Abu	CA - 14	Expression of TXNIP in cancer cells and regulation by 1,25(OH)2D3: Is it really the vitamin D3 upregulated protein?
Elbers, Dana	OT - 26	Ca ²⁺ -dependent feedback mechanism of recoverin isoforms and G-protein-coupled receptor kinases in zebrafish phototransduction
El-Yassin, Hedef	AP - 04	Sarcopenia in Iraqi Subjects: A biochemical approach for diagnosis
Erdmann, Constanze	OT - 04	Cardiac actin mutants causing hypertrophic and dilated cardiomyopathies
Ernst, Robert	CS - 02	Crosstalk of lipids and protein folding stress: Lipid fingerprints of a stressed ER
Etzkorn, Manuel	CS - 07	Protein-membrane interactions as modulators in hormone signalling and protein aggregation
Eulenburg, Volker	PA - 03	Inhibition of glycine transporter 1 as a novel approach for the treatment of chronic pain conditions.
Falk, Sebastian	RR - 03	Mpp6 incorporation in the nuclear exosome contributes to RNA channeling through the Mtr4 helicase
Fedorov, Ivan	CS - 35	A novel affinity-based method for the isolation of exosomes.
Fichtner, Miriam	OT - 15	Features of the two isoforms of the soluble receptor sTAC1
Fischer, Tobias	CA - 06	Synthesis and Biological Evaluation of Cyclic Chemerin-9 Analogs

(sorted by presenting author)

Name	Poster Nr	Title
Fuchs, Philippe	ET - 01	Re-modelling plant mitochondrial respiration during drought
Funke, Lukas	OT - 45	Time course analysis of lung proteome modulations in an ovalbumin mouse model of asthma bronchiale
Gesper, Astrid	CS - 05	Investigating nanoparticle-cell interactions with scanning ion conductance microscopy
Gesper, Astrid	OT - 36	Pitfalls of using total protein content for normalization of membrane proteins
Giehl, Klaudia	CS - 19	Molecular mechanism determining the interaction of K-Ras and Galectin-8
Gilsbach, Bernd	AP - 01	Characterization of LRRK2
Girbig, Mathias	GE - 03	Recombinant production and mutagenesis of the 23-subunit dynactin complex
Gleditsch, Daniel	GE - 04	Structural basis of CRISPR RNA-guided DNA recognition by a minimal Type I-Fv Cascade surveillance complex
Glomb, Oliver	SC - 05	YFR016c-Characterization of a novel interaction partner of the yeast polarisome with a potential role in actin organization
Gnutt, David	OT - 41	Intracellular modulation of protein folding stability probed by a SOD1 based folding sensor
Grad, Jean-Noël	SM - 08	Targeting protein-protein interactions via supramolecular ligands — Mechanistic insight by molecular modeling
Hagemann, Philipp	SC - 01	Knowledge of cell membrane topography allows fluorescence correlation spectroscopy to reveal the molecular organization of the cell membrane at a new level of detail
Hallstein, Ina	CS - 25	Does PDK1 phosphorylate the tumor suppressor LKB1?
Hänelt, Inga	CS - 24	Allosteric control of the K(+) uptake system KtrAB
Hansen, Tobias	SB - 04	Identification of Proteins involved in LD Biogenesis by High-Throughput Screen
Hassoun, Roua	OT - 11	Molecular consequences of a novel and spontaneous infantile mutation in TNNC1 leading to the expression of cTnC G34S
Hayduk, Matthias	SM - 06	Novel luminophores with aggregation induced emission properties for protein recognition
Heid, Christian	OT - 57	Molecular Tweezers for Specific Protein Surface Recognition
Heinecke, Dominic	OT - 17	Elucidating a mechanism of microtubule stabilization contributing to chromosomal instability in cancer cells
Heiselmayer, Christina	CA - 16	Cleavage of the transcription factor USF2 by Taspase1 counteracts heterodimerization with USF1 and CDK4 expression

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Organizer

Rolf Heumann	Ruhr University Bochum (Head of the organization team)
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Konstanze Winklhofer	Ruhr University Bochum
Alfred Wittinghofer	Max Planck Institute Dortmund
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Christine Blattner	Karlsruhe Institute of Technology (SG Receptors and Signal Transduction)
Roland Brandt	University Osnabrück (SG Molecular Neurobiology)
Klaudia Giehl	University Giessen (SG Biochemical Pharmacology and Toxicology)
Ralf Erdmann	Ruhr University Bochum (SG Molekulare Zellbiologie)
Lothar Elling	RWTH Aachen (SG Glycobiology)
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Notes

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69th Mosbacher Kolloquium

SYNTHETIC BIOLOGY - FROM UNDERSTANDING TO APPLICATION



Topics

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Sven Panke / Basel [CH] - Dora Tang / Dresden [DE]

Post-translational network control

Wolfgang Schamel / Freiburg [DE] - Barbara Di
Ventura / Heidelberg [DE] - Jared Toettcher / Princeton [US]

Engineering genomes and networks

John Glass / La Jolla [US] - Christopher Voigt / Boston [US]
Yaakov Benenson / Basel [CH] - Sarah O'Conner / Norwich (UK)

Application in biotechnology & medicine

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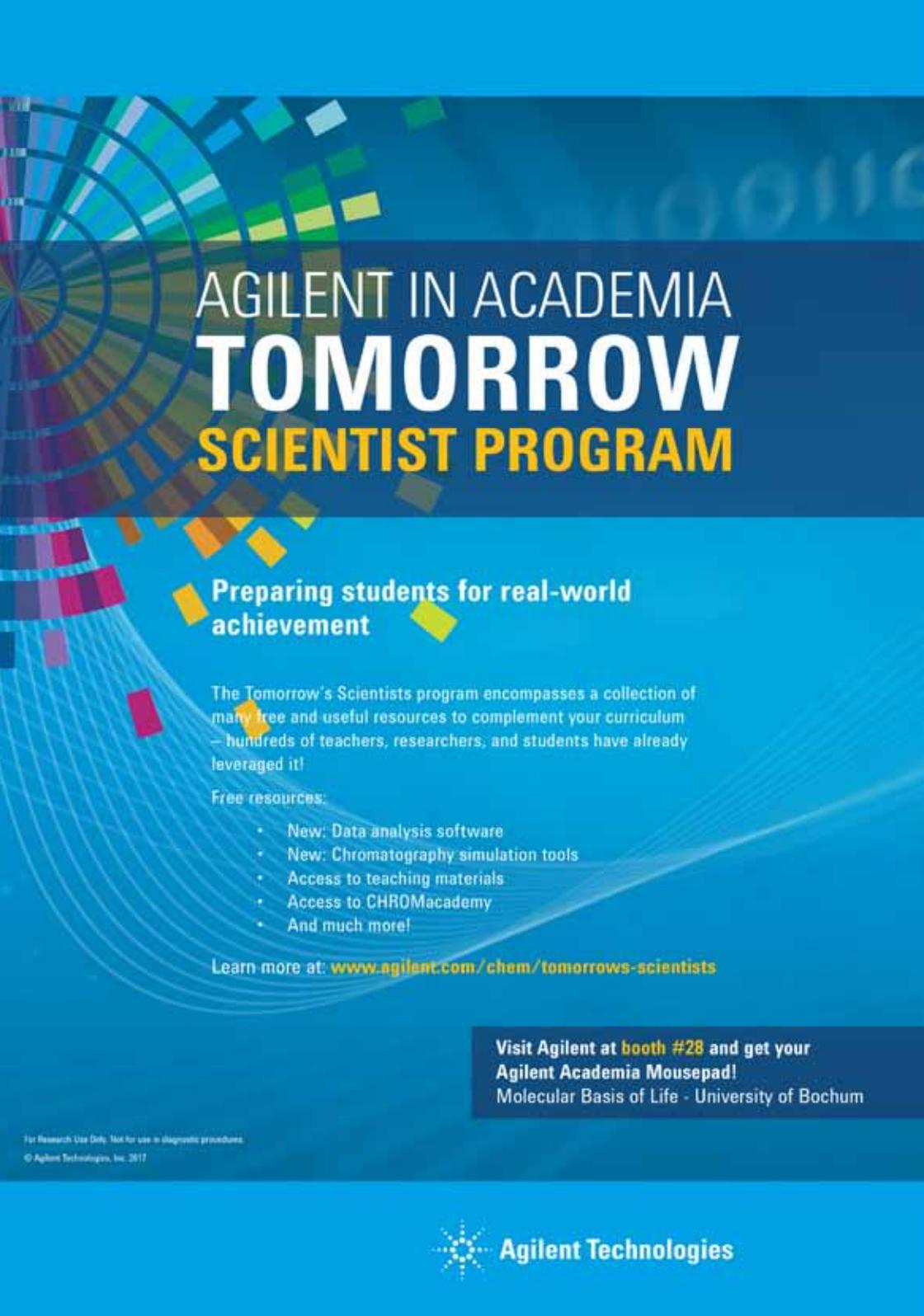
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