Molecular Life Sciences

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


Campus Westend
Goethe University
Frankfurt a. M. • Germany

www.molecular-life-sciences.de
65. 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)

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)

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

www.mosbacher-kolloquium.org
Table of Contents

Organisation and Imprint ................................................................. 5

Welcome Note of the Conference Chair ........................................ 7

General Information
  Registration ................................................................................. 8
  Hotels ....................................................................................... 8
  Travel and Parking ...................................................................... 8
  Campus Plan ............................................................................... 9
  Public Transportation Network of Frankfurt a. M. .................... 10
  Opening Hours ........................................................................... 11

Event and Presentation Types .......................................................... 13

General Hints for Authors and Presenters ......................................... 14

Programme Overview
  Thursday • 3. Oct. 2013 .............................................................. 15
  Friday • 4. Oct. 2013 ................................................................. 16
  Saturday • 5. Oct. 2013 ............................................................. 18

Scientific Programme
  Thursday • 3. Oct. 2013 .............................................................. 22

50 Years Otto-Warburg-Medal .......................................................... 23

Scientific Programme
  Friday • 4. Oct. 2013 ................................................................. 23
  Saturday • 5. Oct. 2013 ............................................................. 33
  Sunday • 6. Oct. 2013 ............................................................... 38
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Postersessions • 4. and 5. Oct., 2013 (16:30–18:00)</td>
<td></td>
</tr>
<tr>
<td>Bioanalytics and Bioinformatics – Joint Forces to understand Cellular Networks (AI)</td>
<td>41</td>
</tr>
<tr>
<td>Bioenergetics (BE)</td>
<td>42</td>
</tr>
<tr>
<td>Biophysical and Evolutionary Aspects of Protein Engineering (PE)</td>
<td>43</td>
</tr>
<tr>
<td>Cellular Biology of Metabolism (MB)</td>
<td>44</td>
</tr>
<tr>
<td>Current Trends and Developments in Structural Analysis of Biological Macromolecules (SA)</td>
<td>46</td>
</tr>
<tr>
<td>Dissection and Targeting of Signal Transduction Pathways (ST)</td>
<td>48</td>
</tr>
<tr>
<td>Free Topic (FT)</td>
<td>51</td>
</tr>
<tr>
<td>Glycobiology of Human Diseases (GL)</td>
<td>57</td>
</tr>
<tr>
<td>GTPases in Health and Disease (GT)</td>
<td>58</td>
</tr>
<tr>
<td>Membranes and Transport (MT)</td>
<td>59</td>
</tr>
<tr>
<td>Protein Biosynthesis and Folding (BF)</td>
<td>64</td>
</tr>
<tr>
<td>Redoxbiology (RB)</td>
<td>66</td>
</tr>
<tr>
<td>RNA Biochemistry (RN)</td>
<td>68</td>
</tr>
<tr>
<td>Tumorigenesis and Paraneoplastic Syndromes (TP)</td>
<td>70</td>
</tr>
<tr>
<td>Sponsors</td>
<td>72</td>
</tr>
<tr>
<td>Media Cooperations</td>
<td>73</td>
</tr>
<tr>
<td>Exhibitor List – alphabetical</td>
<td>73</td>
</tr>
<tr>
<td>Plan of Exhibition Area</td>
<td>74</td>
</tr>
<tr>
<td>Social and Cultural Programme</td>
<td>76</td>
</tr>
<tr>
<td>Invited Speakers</td>
<td>80</td>
</tr>
<tr>
<td>Announcement FEBS/GBM 2015</td>
<td>85</td>
</tr>
<tr>
<td>Index of presenting Authors and Chairs</td>
<td>86</td>
</tr>
</tbody>
</table>
Organisation and Imprint

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

Date

Homepage
www.molecular-life-sciences.de

Conference Chair
Prof. Dr. Jürgen Soll
Biozentrum der LMU Munich
Dept. Biologie I – Botanik
Grosshadernerstraße 2–4
82152 Planegg-Martinsried (DE)

Organiser/Meeting Secretariat
Gesellschaft für Biochemie und Molekularbiologie e. V. (GBM)
Dr. Anke Lischeid (Executive Secretary)
Mörfelder Landstraße 125
60598 Frankfurt a. M. (DE)
Tel. +49 69 66 05 67-0 • Fax +49 69 66 05 67-22
info@gbm-online.de

Scientific Committee – Study Groups
Blattner, Christine (Karlsruhe/DE) Hunte, Carola (Freiburg/DE)
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)
Organisation and Imprint

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
Conventus Congressmanagement & Marketing GmbH
Oliver Ong
Carl-Pulfrich-Straße 1
07745 Jena (DE)
Tel. +49 3641 31 16-316
Fax +49 3641 31 16-243
gbm@conventus.de
www.conventus.de

Design/Layout
Layout www.krea.tif–design.de
Print www.siblog.de
Circulation 1.000
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
General Information

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

Registration Fees

<table>
<thead>
<tr>
<th></th>
<th>Member</th>
<th>Non Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academia*</td>
<td>350 EUR</td>
<td>425 EUR</td>
</tr>
<tr>
<td>PhD students**</td>
<td>85 EUR</td>
<td>110 EUR</td>
</tr>
<tr>
<td>Undergraduates**</td>
<td>60 EUR</td>
<td>85 EUR</td>
</tr>
<tr>
<td>Retiree</td>
<td>160 EUR</td>
<td>200 EUR</td>
</tr>
<tr>
<td>Industry</td>
<td>475 EUR</td>
<td>550 EUR</td>
</tr>
</tbody>
</table>

* 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 19:00–07:00

Opening hours: Daily 09:00–18:00

Clearance height 2.1 m
Vom Hauptbahnhof
• Mit der U-Bahn Linie U4 Richtung Bockenheimer Warte zur Station "Bockenheimer Warte".
• Von dort mit dem Bus Linie 75 Richtung Uni Campus Westend zu Haltestelle "Lübecker Straße" (Hörsaalzentrum), "Bremer Straße" (Nebengebäude) und "Uni Campus Westend" (Hauptgebäude) oder
• Bus Linie 36 Richtung Hainer Weg zu Haltestelle "Uni Campus Westend" (ca. 12 Min. Fahrtzeit).

Vom Westbahnhof
• Mit dem Bus Linie 36 Richtung Hainer Weg bis zur Haltestelle "Uni Campus Westend" (ca. 15 Min. Fahrtzeit).

Vom Flughafen zum Hauptbahnhof
• Flughafen Regionalbahnhof direkt mit der S9 Richtung Hanau Hauptbahnhof zum Hauptbahnhof Frankfurt (ca. 11 Min. Fahrzeit).

Anreise mit öffentlichen Verkehrsmitteln:

1 Hauptgebäude (IG Hochhaus)
2a Casino
2b Anbau Casino
3 House of Finance
4 Hörsaalzentrum
5 Rechts- und Wirtschaftswissenschaften
6 Studierendenwohnheim

Bitte beachten: Es stehen nur eingeschränkt Parkplätze für Abonnenten mit gültiger Parkkarte zur Verfügung.

• Am Autobahnkreuz "Nordwestkreuz Frankfurt" (A5/A66) auf die A66 Richtung F-Stadtmitte/Miquelallee.
• Die Autobahn endet an der Stadtgrenze und geht in die Miquelallee über.
• An der ersten Ampel rechts in die Hansaallee abbiegen.
• Verlassen Sie die Hansaallee an der zweiten Ampel und biegen Sie rechts in die Bremer Straße ein.
• Nach ca. 200 m befindet sich auf der rechten Seite der Campus Westend.
General Information

Public Transportation Network

Frankfurt Main Station (HBF)
U5 – Eschenheimer Tor
(Fleming’s Deluxe Hotel Frankfurt-City)

U5 – Holzhausenstraße
(closest station to the university and venue)

Frankfurt Airport/Airport Trainstation

© Rhein-Main-Verkehrsverbund GmbH
Opening Hours

<table>
<thead>
<tr>
<th></th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
<th>Sunday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial Exhibition</td>
<td>13:30 – 22:30*</td>
<td>08:30 – 20:00</td>
<td>08:30 – 20:00**</td>
<td>08:30 – 11:30</td>
</tr>
<tr>
<td>Poster Exhibition</td>
<td>19:00 – 22:30*</td>
<td>13:00 – 20:00</td>
<td>08:00 – 19:00</td>
<td></td>
</tr>
<tr>
<td>Check-In</td>
<td>13:00 – 19:00</td>
<td>08:00 – 19:00</td>
<td>08:00 – 19:30**</td>
<td>08:00 – 13:00</td>
</tr>
<tr>
<td>Media Check-In</td>
<td>13:00 – 19:00</td>
<td>08:00 – 18:30</td>
<td>08:00 – 18:30**</td>
<td>08:00 – 12:30</td>
</tr>
</tbody>
</table>

* 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.
General Information

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 11:45 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.
General Hints for Authors and Presenters

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 13:00 on Friday, 4th October 2013 and should not be removed before 19:00 on Saturday, 5th October 2013. Please dismantle your poster until 6th October 2013, 11:30. Posters that are still attached after this date will be removed by the organizer and stored until 15:30 at the Check-In. Please adhere to the schedule.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:00–16:45</td>
<td>50th Anniversary of Otto-Warburg-Medal/Prize Lecture</td>
</tr>
<tr>
<td>17:00–17:15</td>
<td>Opening</td>
</tr>
<tr>
<td>17:15–18:15</td>
<td>Public Lecture (in German)</td>
</tr>
<tr>
<td>18:15–18:30</td>
<td>GBM Communication Award</td>
</tr>
<tr>
<td>18:15–18:55</td>
<td>Karl Lohmann Prize</td>
</tr>
<tr>
<td>18:55–19:15</td>
<td>GBM PhD Prize</td>
</tr>
<tr>
<td>19:15</td>
<td>Get Together at the Posters</td>
</tr>
</tbody>
</table>

*Thursday, October 03, 2013*
## Programme Overview • Friday • 4. Oct. 2013

<table>
<thead>
<tr>
<th>Time</th>
<th>Lecture Hall 1</th>
<th>Lecture Hall 2</th>
</tr>
</thead>
</table>
| 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 |

Friday, October 04, 2013
<table>
<thead>
<tr>
<th>Lecture Hall 3</th>
<th>Lecture Hall 4</th>
<th>Lecture Hall 5</th>
<th>Lecture Hall 6</th>
<th>Lecture Hall 7</th>
<th>Room 1.812 (Casino)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lunch Break</td>
<td>12:45–14:15</td>
<td>Lunch Session 1</td>
<td>12:45–14:15</td>
<td>Lunch Session 2</td>
<td>12:45–14:15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Junior GBM Session: Students for Students</td>
<td></td>
<td>DFG Speed-Dating Session</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>p. 25</td>
<td></td>
<td></td>
<td>p. 25</td>
</tr>
</tbody>
</table>

### 14:30–16:30

- **Pecha Kucha Short Talks: Signaling and Regulation**
- **Pecha Kucha Short Talks: Molecules to Organismic Biology**
- **Pecha Kucha Short Talks: Transport and Folding**

<table>
<thead>
<tr>
<th>Lecture Hall 3</th>
<th>Lecture Hall 4</th>
<th>Lecture Hall 5</th>
<th>Lecture Hall 6</th>
<th>Lecture Hall 7</th>
<th>Room 1.812 (Casino)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16:30–18:00</td>
<td>16:30–17:30</td>
<td>16:30–18:00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Postersession I</td>
<td>Junior GBM Meeting</td>
<td>Kick-off Meeting AK Geschichte der Biochemie</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lecture Hall 3</th>
<th>Lecture Hall 4</th>
<th>Lecture Hall 5</th>
<th>Lecture Hall 6</th>
<th>Lecture Hall 7</th>
<th>Room 1.812 (Casino)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18:00–20:00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Study Group Session 1 – Chemical Glycobiologie in Health and Disease</td>
<td>Study Group Session 2 – Current Challenges and Frontiers in Structural Biology</td>
<td>Study Group Session 3 – Dissection and Targeting of Signal Transduction Pathways</td>
<td>Study Group Session 4 – Ras and Rho GTPases in polarization and motility</td>
<td>Meet the Prof</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>p. 30</td>
<td>p. 30</td>
<td>p. 31</td>
<td>p. 32</td>
<td>p. 32</td>
<td></td>
</tr>
</tbody>
</table>

### Programme Overview • Friday • 4. Oct. 2013
<table>
<thead>
<tr>
<th>Time</th>
<th>Lecture Hall 1</th>
<th>Lecture Hall 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00–09:40</td>
<td>Plenary Lecture 4: Molecular networks for enhancing crop productivity</td>
<td>Parallel Plenary Lecture 3b: Modern Concepts in Protein Engineering, from Directed Evolution to In silico Approaches</td>
</tr>
<tr>
<td>09:40–10:20</td>
<td>Plenary Lecture 5: Molecular mechanisms of mitochondrial behavior</td>
<td>Parallel Plenary Lecture 4b: Redox Regulation and Oxidative Stress</td>
</tr>
<tr>
<td>10:20–11:00</td>
<td>Plenary Lecture 6: Leveraging evolutionary information for protein structure and function production</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>11:30–12:00</td>
<td>Plenary Lecture 6: Leveraging evolutionary information for protein structure and function production</td>
<td>Parallel Plenary Lecture 3a: Development and Manufacturing of Next Generation Biopharmaceuticals</td>
</tr>
<tr>
<td>12:00–12:30</td>
<td>Parallel Plenary Lecture 3a: Development and Manufacturing of Next Generation Biopharmaceuticals</td>
<td>Parallel Plenary Lecture 4a: Lipid transport and membrane remodeling to build and protect chloroplasts</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Sunday, October 06, 2013

<table>
<thead>
<tr>
<th>Time</th>
<th>Lecture Hall 1</th>
<th>Lecture Hall 3</th>
<th>Lecture Hall 4</th>
<th>Lecture Hall 5</th>
<th>Lecture Hall 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:30–16:30</td>
<td>Study Group Session 9 – ROS: Generating complexes and intracellular signaling</td>
<td>Study Group Session 10 – RNA Chemical Biology</td>
<td>Study Group Session 11– Bioanalytics and Bioinformatics - joint forces to understand cellular networks</td>
<td>Study Group Session 12 – Integrating genomics and metabolomics for gene discovery in plants</td>
<td></td>
</tr>
<tr>
<td>11:30–11:45</td>
<td>Poster Awards</td>
<td>p. 39</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:45–12:30</td>
<td>Closing Lecture</td>
<td>p. 39</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>End of Conference and Final Remarks</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
ANZEIGE Karger

Journal of Molecular Microbiology and Biotechnology

An excellent forum for basic and applied research

- Reflects the integration of basic and applied microbiology brought about by recent advances in the new disciplines of genomics, proteomics and bioinformatics
- Publishes original papers from all areas of microbiology and biotechnology
- Featuring written symposia on selected topics, timely reviews, minireviews and correspondence
- Includes descriptions of novel, microbiologically relevant software
- Rapid publication

Editor-in-Chief
M.H. Saier, Jr., La Jolla, Calif.

Senior Editors
M.H. Brown, Adelaide
J. Deutscher, Thiverval-Grignon
G. Gosset, Cuernavaca
M. Inouye, Piscataway, N.J.
M. Müller, Freiburg
D.H. Nies, Halle/Saale
I. Paulsen, Sydney
R. Rabus, Oldenburg
F.X. Soberon, Cuernavaca
J. Stülke, Göttingen

2014: Volume 24, with 6 issues
ISSN 1464–1801 (print)
ISSN 1660–2412 (online)

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

Prof. M.H. Saier
S. Karger AG, Editorial office ‘JMMB’
P.O. Box, CH–4009 Basel (Switzerland)
E-Mail: mmb@karger.ch

JMMB homepage:
www.karger.com/mmb

S. Karger AG
P.O. Box
CH–4009 Basel
(Switzerland)
Tel. +41 61 306 11 11
Fax +41 61 306 12 34
E-Mail karger@karger.ch
www.karger.com
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1500–1645</td>
<td>50th Anniversary of Otto-Warburg-Medal/Prize Lecture</td>
</tr>
<tr>
<td></td>
<td>Lecture Hall 1</td>
</tr>
<tr>
<td></td>
<td>Chair Roger Goody (Dortmund/DE)</td>
</tr>
<tr>
<td></td>
<td>Words of Welcome:</td>
</tr>
<tr>
<td></td>
<td>Roger Goody (Dortmund/DE), Enrico Schleiff (Frankfurt/DE)</td>
</tr>
<tr>
<td></td>
<td>Alfred Wittinghofer (Dortmund/DE), Angelika Lex (München/DE)</td>
</tr>
<tr>
<td></td>
<td>Laudatio and Award Lecture:</td>
</tr>
<tr>
<td></td>
<td>Roger Goody (Dortmund/DE), Randy Schekman (Berkeley, CA/US)</td>
</tr>
<tr>
<td>AWV01</td>
<td>Biogenesis and Function of the Autophagosome</td>
</tr>
<tr>
<td></td>
<td>Randy Schekman (Berkeley, CA/US)</td>
</tr>
<tr>
<td>1700–1715</td>
<td>Opening</td>
</tr>
<tr>
<td></td>
<td>Lecture Hall 1</td>
</tr>
<tr>
<td></td>
<td>Jürgen Soll (Planegg-Martinsried/DE)</td>
</tr>
<tr>
<td></td>
<td>Roger Goody (Dortmund/DE)</td>
</tr>
<tr>
<td>1715–1815</td>
<td>Public Lecture (in German)</td>
</tr>
<tr>
<td></td>
<td>Lecture Hall 1</td>
</tr>
<tr>
<td></td>
<td>Chair Jürgen Soll (Planegg-Martinsried/DE)</td>
</tr>
<tr>
<td></td>
<td>Roger Goody (Dortmund/DE)</td>
</tr>
<tr>
<td>AWV02</td>
<td>60 Jahre DNA-Doppelhelix – Translation eines Naturgesetzes</td>
</tr>
<tr>
<td></td>
<td>Theo Dingermann (Frankfurt a. M./DE)</td>
</tr>
<tr>
<td>1815–1830</td>
<td>GBM Communication Award</td>
</tr>
<tr>
<td></td>
<td>Lecture Hall 1</td>
</tr>
<tr>
<td></td>
<td>Chair Roger Goody (Dortmund/DE)</td>
</tr>
<tr>
<td></td>
<td>Awardee Junior GBM</td>
</tr>
<tr>
<td>1830–1855</td>
<td>Karl Lohmann Prize</td>
</tr>
<tr>
<td></td>
<td>Lecture Hall 1</td>
</tr>
<tr>
<td></td>
<td>Chair Roland Lill (Marburg/DE)</td>
</tr>
<tr>
<td>AWV04</td>
<td>Mechanism of MicroRNA-Mediated mRNA Decay</td>
</tr>
<tr>
<td></td>
<td>Jörg Braun (Worcester, MD/US)</td>
</tr>
</tbody>
</table>
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.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Lecture Hall</th>
<th>Chair</th>
<th>Speaker and Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00–09:40</td>
<td><strong>Plenary 1</strong></td>
<td>1</td>
<td>Jürgen Alves (Hannover/DE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PLV01</td>
<td></td>
<td></td>
<td>Designing Biological Systems</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pamela Silver (Bosten, MA/US)</td>
<td></td>
</tr>
<tr>
<td>09:40–10:20</td>
<td><strong>Plenary 2</strong></td>
<td>1</td>
<td>Jürgen Alves (Hannover/DE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PLV02</td>
<td></td>
<td></td>
<td>Exploring the Human Protein Atlas to study Biology and Disease</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mathias Uhlen (Stockholm/SE)</td>
<td></td>
</tr>
<tr>
<td>10:20–11:00</td>
<td><strong>Plenary 3</strong></td>
<td>1</td>
<td>Jürgen Alves (Hannover/DE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PLV03</td>
<td></td>
<td></td>
<td>DNA Demethylation and Repair by Gadd45</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Christof Niehrs (Mainz/DE)</td>
<td></td>
</tr>
<tr>
<td>11:00–11:30</td>
<td>Coffee Break</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:30–12:00</td>
<td><strong>Parallel Plenary 1a</strong></td>
<td>1</td>
<td>Enrico Schleiff (Frankfurt a. M./DE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Import and assembly of mitochondrial proteins</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Nikolaus Pfanner (Freiburg/DE)</td>
<td></td>
</tr>
<tr>
<td>11:30–12:00</td>
<td><strong>Parallel Plenary 1b</strong></td>
<td>2</td>
<td>Dirk Schneider (Mainz/DE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PLV05</td>
<td></td>
<td></td>
<td>Transport Machineries in Adaptive Immunity and Viral Immune Evasion</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Robert Tampé (Frankfurt a. M./DE)</td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
<td>Location</td>
<td>Chair</td>
<td>Details</td>
</tr>
<tr>
<td>--------</td>
<td>----------------------------------------------</td>
<td>--------------</td>
<td>---------------------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>12:00–12:30</td>
<td><strong>Parallel Plenary 2a</strong></td>
<td>Lecture Hall 1</td>
<td>Enrico Schleiff (Frankfurt a. M./DE)</td>
<td>PLV06 Chaperones for the Folding, Assembly and Activation Maintenance of RuBisCO Manajit Hayer-Hartl (Martinsried/DE)</td>
</tr>
<tr>
<td>12:00–12:30</td>
<td><strong>Parallel Plenary 2b</strong></td>
<td>Lecture Hall 2</td>
<td>Dirk Schneider (Mainz/DE)</td>
<td>PLV07 Dielectric Heterogeneity in the Hetero-Oligomeric Photosynthetic Cytochrome b6f Complex William A. Cramer (West Lafayette, IN/US)</td>
</tr>
<tr>
<td>12:30–14:30</td>
<td><strong>Lunch Break</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:45–14:15</td>
<td><strong>Lunch Session “Science and Beyond” 1</strong></td>
<td>Lecture Hall 5</td>
<td>Junior GBM Session/Students for Students</td>
<td></td>
</tr>
<tr>
<td>12:45–14:15</td>
<td><strong>Lunch Session “Science and Beyond” 2</strong></td>
<td>Casino Room 1.812</td>
<td></td>
<td>DFG Speed-Dating Session</td>
</tr>
</tbody>
</table>
1430–1630 Pecha Kucha – Parallel Short Talks – Signaling and Regulation

Lecture Hall 3

Chair
Marc Bramkamp (Munich/DE)
Robert Tampé (Frankfurt a. M./DE)

1430 Optogenetic Control of cGMP Mediated Sensory Transduction
PKV01 Path-ways in Caenorhabditis Elegans
Jatin Nagpal (Frankfurt a. M./DE)

1440 The Chemoattractant Cluster – Studying GPCR Ligand Binding Properties in a Nutshell
PKV02 Lisa Joedicke (Frankfurt a. M./DE)

1450 Active Wnt Proteins are Secreted on Exosomes
PKV03 Julia Gross (Heidelberg/DE)

1500 Substrate Recognition of SUMO-Targeted Ubiquitin Ligases
PKV04 Gerrit Praefcke (Cologne/DE)

1510 The Innate Immune Response to Streptococcus Pneumoniae in the Lung is Influenced by Immunoproteasomes
PKV05 Felicia Kirschner (Berlin/DE)

1520 Conformational Equilibria in Ras Superfamily Members as Potential Target to Modulate Signalling Activity
PKV06 Michael Spoerner (Regensburg/DE)

1530 A Lipid E-MAP identifies Ubx2 As
PKV07 Robert Ernst (Frankfurt a. M./DE)

1540 Dictyostelium Roco Proteins to Study LRRK2-Mediated Parkinson Disease
PKV08 Bernd Gilsbach (Groningen/NL)

1550 The Interactome of the Mitochondrial Oxidoreductase Mia40 in Human Cells
PKV09 Carmelina Petrungaro (Kaiserslautern/DE)

1600 Analysis in Phytochrome Hybrids of PhyB from A. Thaliana
PKV10 Silke von Horsten (Marburg/DE)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:10</td>
<td>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</td>
<td>Günther Müller (Garching/DE)</td>
<td></td>
</tr>
<tr>
<td>16:20</td>
<td>Structural and Functional Studies on Cp*Rh Derivatives of GPCR Peptide Ligands</td>
<td>Raphael Stoll (Bochum/DE)</td>
<td></td>
</tr>
<tr>
<td>14:30–16:30</td>
<td>Pecha Kucha – Parallel Short Talks – Molecules to Organismic Biology</td>
<td>Johannes Herrmann (Kaiserslautern/DE) Tim Hucho (Cologne/DE)</td>
<td>Lecture Hall 4</td>
</tr>
<tr>
<td>14:30</td>
<td>NOVA – Evaluation of Complexome Profiling Data</td>
<td>Heiko Giese (Frankfurt a. M./DE)</td>
<td></td>
</tr>
<tr>
<td>14:40</td>
<td>‘Traceless’ Tracing of Proteins – High-Affinity Trans-Splicing for Protein Labeling in Living Cells</td>
<td>Markus Braner (Frankfurt a. M./DE)</td>
<td></td>
</tr>
<tr>
<td>14:50</td>
<td>Tracking the Cellular Fate of siRNA via FRET</td>
<td>Markus Hirsch (Mainz/DE)</td>
<td></td>
</tr>
<tr>
<td>15:00</td>
<td>From Structure to Function of the Mammalian SRP System</td>
<td>Matthias Becker (Heidelberg/DE)</td>
<td></td>
</tr>
<tr>
<td>15:10</td>
<td>Modification of Self-Organizing Min Surface Waves Through Protein Engineering</td>
<td>Simon Kretschmer (Martinsried/DE)</td>
<td></td>
</tr>
<tr>
<td>15:20</td>
<td>Green Beards, Beer &amp; Candidiasis – Fungal Adhesion &amp; its Molecular Base</td>
<td>Lars-Oliver Essen (Marburg/DE)</td>
<td></td>
</tr>
<tr>
<td>15:30</td>
<td>Supramolecular Organisation of the Respiratory Chain of Hyperthermophilic Eubacterium Aquifex Aeolicus</td>
<td>Yang Ni (Frankfurt a. M./DE)</td>
<td></td>
</tr>
<tr>
<td>15:40</td>
<td>Lysine Acetylation – A Novel Regulatory Mechanism for OXPHOS Assembly and Stability?</td>
<td>Tina Wenz (Cologne/DE)</td>
<td></td>
</tr>
</tbody>
</table>
15:50 Cytosolic Peroxidases Protect African Trypanosomes From Lysosomal Oxidative Stress  
Corinna Hiller (Heidelberg/DE)

16:00 Generation of a Cell Based System to Visualize Epithelial-Mesenchymal Transition (EMT) in Tumor Progression  
Julia Maiër (Tübingen/DE)

16:10 The Effect of Hypoxia during Vertebrate Development  
Sanjeeva Metikala (Halle, Saale/DE)

16:20 Localization of Amyloid-Beta 1-42 (Aβ1-42) Peptide in Cells and their Influence on Mitochondrial Function  
Victoria Decker (Darmstadt/DE)

14:30–16:30 Pecha Kucha – Parallel Short Talks – Transport and Folding  
Lecture Hall 5  
Chair  
Irmgard Sinning (Heidelberg/DE), Nikolaus Pfanner (Freiburg/DE)

14:30 Find Out to Apply – The Hemolysin A Type 1 Secretion System  
Christian Schwarz (Düsseldorf/DE)

14:40 How to Kill a Mocking Bug  
Stefan Raunser (Dortmund/DE)

14:50 Flotillins Functionally Organize the Bacterial Membrane  
Juri Bach (Martinsried/DE)

15:00 Optochemical Biology – In-Situ Receptor Clustering Triggered by Light  
Ralph Wienke (Frankfurt a. M./DE)

15:10 Identification of New Cargo Proteins that require Clathrin Adaptor Complexes for Intracellular Transport  
Jana Zimmermann (Cologne/DE)

15:20 Semisynthetic Lipidated LC3 Protein Mediates Membrane Fusion  
Yaowen Wu (Dortmund/DE)

15:30 Analysis of Hsp90-Cofactor Complexes Using Analytical Ultracentrifugation with Fluorescence Detection  
Klaus Richter (Garching/DE)
15:40 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)

15:50 A Strategy for the Identification of Mitochondrial CLPXP Protease Interactors and Substrates
Fabian Fischer (Frankfurt a. M./DE)

16:00 How Does the Mitochondrial IMS Handle and Communicate Misfolding Stress?
Muna Ali (Kaiserslautern/DE)

16:10 Conformational Flexibility of VDAC and the Influence of Effectors
Barbara Mertins (Marburg/DE)

16:20 Mitochondriotropic Liposomes for Targeted Delivery of Therapeutic tRNAs
Bettina Krieg (Mainz/DE)

16:30–18:00 Coffee Break and Postersession I (see page 40)

16:30–17:30 Junior GBM Meeting
Lecture Hall 7

16:30–18:00 Kick-off Meeting AK Geschichte der Biochemie
Casino Raum 1.812
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1800–2000</td>
<td>Study Group Session 1 – Chemical Glycobiologie in Health and Disease</td>
<td><strong>Chair</strong>: Lothar Elling (Aachen/DE)</td>
</tr>
<tr>
<td>1800</td>
<td>C-type Lectin Receptors as Targets for Immune Modulation – From Glycan Arrays to Murine Studies</td>
<td><strong>INV01</strong>: Bernd Lepenies (Potsdam/DE)</td>
</tr>
<tr>
<td>1830</td>
<td>Use of Zinc Finger Nuclease Gene Targeting for Functional Glycomics</td>
<td><strong>INV02</strong>: Henrik Clausen (Copenhagen/DK)</td>
</tr>
<tr>
<td>1900</td>
<td>The Influence of the Intracellular Concentration of Sialic Acid on the Sialylation of Glycoconjugates</td>
<td><strong>INV03</strong>: Kaya Bork (Halle, Saale/DE)</td>
</tr>
<tr>
<td>1920</td>
<td>Biomarker Identification for Medullary Cystic Kidney Disease ..... Type (MCKD1) a Chronic Tubulointerstitial Nephropathy</td>
<td><strong>GLV01</strong>: Simon Staubach (Cologne/DE)</td>
</tr>
<tr>
<td>1940</td>
<td>Polysialic Acid is Involved During “On/Off Mechanisms” of Seasonal Spermatogenesis</td>
<td><strong>GLV02</strong>: Sebastian P. Galuska (Giessen/DE)</td>
</tr>
<tr>
<td>1800–2000</td>
<td>Study Group Session 2 – Current Challenges and Frontiers in Structural Biology</td>
<td><strong>Chair</strong>: Clemens Steegborn (Bayreuth), Oliver Einsle (Freiburg)</td>
</tr>
<tr>
<td>1800</td>
<td>Bacterial Life on CO and CO₂</td>
<td><strong>INV04</strong>: Oliver Einsle (Freiburg)</td>
</tr>
<tr>
<td>1830</td>
<td>High-resolution 3D Structure Determination of Dynamic Macromolecular Complexes by Single Particle cryo-EM</td>
<td><strong>INV05</strong>: Holger Stark (Göttingen/DE)</td>
</tr>
<tr>
<td>1900</td>
<td>Structure Determination from Sparse NMR Data Using CS-Rosetta: Hidden States, Large Proteins, and Automation</td>
<td><strong>INV06</strong>: Oliver Lange (Garching/DE)</td>
</tr>
<tr>
<td>1920</td>
<td>Structure and Function of the Amyloid Precursor Protein APP in Alzheimer’s Disease</td>
<td><strong>INV07</strong>: Manuel Than (Jena/DE)</td>
</tr>
<tr>
<td>Time</td>
<td>Title</td>
<td>Speaker &amp; Location</td>
</tr>
<tr>
<td>-------</td>
<td>----------------------------------------------------------------------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>19:40</td>
<td>Mechanism of Membrane Protein Transport by Chaperones</td>
<td>Sebastian Hiller (Basel/CH)</td>
</tr>
<tr>
<td>18:00—20:00</td>
<td>Study Group Session 3 – Dissection and Targeting of Signal Transduction Pathways</td>
<td>Shirley Knauer (Essen/DE), Karlheinz Friedrich (Jena/DE)</td>
</tr>
<tr>
<td>18:00</td>
<td>Design and Application of Cytokine Receptor-Based Interaction Traps</td>
<td>Jan Tavernier (Ghent/BE)</td>
</tr>
<tr>
<td>18:25</td>
<td>Chemical Ubiquitination</td>
<td>Huib Ovaa (Amsterdam/NL)</td>
</tr>
<tr>
<td>18:50</td>
<td>Reverse Engineering a Hierarchical Regulatory Network</td>
<td>Reinhold Schäfer (Berlin/DE)</td>
</tr>
<tr>
<td>19:10</td>
<td>Allosteric Modulation of Protein Function by Supramolecular Ligands</td>
<td>Thomas Schrader (Essen/DE)</td>
</tr>
<tr>
<td>19:20</td>
<td>Berberine – New Aspects of an Ancient Remedy</td>
<td>Kai F. Albring (Jena/DE)</td>
</tr>
<tr>
<td>19:35</td>
<td>Small Molecule Stabilization of 14-3-3 Protein-Protein Interactions: New Way of Pharmacological Intervention</td>
<td>Christian Ottmann (Eindhoven/NL)</td>
</tr>
<tr>
<td>Time</td>
<td>Session Title</td>
<td>Presenter(s)</td>
</tr>
<tr>
<td>-------</td>
<td>-------------------------------------------------------------------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>1800-2000</td>
<td>Study Group Session 4 – Ras and Rho-GTPases in Polarization and Motility</td>
<td>Klaudia Giehl (Giessen/DE), Rolf Heumann (Bochum/DE)</td>
</tr>
<tr>
<td>1800</td>
<td>Atypical Rho GTPases – Roles in Cancer Cell Contraction and Migration</td>
<td>Pontus Aspenström (Stockholm/SE)</td>
</tr>
<tr>
<td>1830</td>
<td>Genetic Analysis of Signaling Pathways that Direct the Formation of Axons</td>
<td>Andreas Püschel (Münster/DE)</td>
</tr>
<tr>
<td>1900</td>
<td>Mechanisms of Neurotransmitter Receptor Clustering at GABAergic Synapses</td>
<td>Theofilos Papadopoulos (Göttingen/DE)</td>
</tr>
<tr>
<td>1920</td>
<td>A Farnesyl Switch Regulates the Dynamic Membrane Binding of Human Guanylate Binding Protein 1</td>
<td>Anke Zienert (Cologne/DE)</td>
</tr>
<tr>
<td>1940</td>
<td>Biochemical Modulation of Small GTPases by Legionella Proteins</td>
<td>Aymelt Itzen (Garching/DE)</td>
</tr>
<tr>
<td>1830-2000</td>
<td>Meet the Prof</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lecture Hall 7</td>
<td>Junior GBM</td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
<td>Lecture Hall</td>
</tr>
<tr>
<td>----------</td>
<td>--------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>09:00–09:40</td>
<td>Plenary 4</td>
<td>1</td>
</tr>
<tr>
<td>09:40–10:20</td>
<td>Plenary 5</td>
<td>1</td>
</tr>
<tr>
<td>10:20–11:00</td>
<td>Plenary 6</td>
<td>1</td>
</tr>
<tr>
<td>11:00–11:30</td>
<td>Coffee Break</td>
<td></td>
</tr>
<tr>
<td>11:30–12:00</td>
<td>Parallel Plenary 3a</td>
<td>1</td>
</tr>
<tr>
<td>11:30–12:00</td>
<td>Parallel Plenary 3b</td>
<td>2</td>
</tr>
</tbody>
</table>
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)
<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:30</td>
<td>The Role of the Ubiquitin Proteasome System in the Pathogenesis and Therapy of B-Cell Malignancies</td>
<td>Vanesa Fernández-Sáiz (Munich/DE)</td>
</tr>
<tr>
<td>15:50</td>
<td>Targeting DNA Repair Pathways for Personalized Cancer Therapy</td>
<td>Christian Reinhardt (Cologne/DE)</td>
</tr>
<tr>
<td>14:30–16:30</td>
<td>Study Group Session 6 – Transport of Molecules Across Biological Membrane</td>
<td>Lutz Schmitt (Düsseldorf/DE), Peter Rehling (Göttingen/DE)</td>
</tr>
<tr>
<td>14:30</td>
<td>Soluble Lipid Bilayer Systems for Structural and Functional Studies of Membrane Proteins</td>
<td>Stephen G. Sligar (Urbana, IL/US)</td>
</tr>
<tr>
<td>15:00</td>
<td>SNARE-Mediated Vesicle Fusion at the Synapse</td>
<td>Reinhard Jahn (Göttingen/DE)</td>
</tr>
<tr>
<td>15:30</td>
<td>Building a Channel Into Nuclear Envelope – How Nuclear Pore Complexes Assemble</td>
<td>Wolfram Antonin (Tübingen/DE)</td>
</tr>
<tr>
<td>15:50</td>
<td>Vesicle Formation by the COPII Complex</td>
<td>Kirsten Bacia (Halle, Saale/DE)</td>
</tr>
<tr>
<td>14:30–16:30</td>
<td>Study Group Session 7 – Biophysical and Evolutionary Aspects of Protein Engineering</td>
<td>Christian Herrmann (Bochum/DE), Reinhard Sterner (Regensburg/DE)</td>
</tr>
<tr>
<td>14:30</td>
<td>tba</td>
<td>Manfred Reetz (Marburg/DE)</td>
</tr>
<tr>
<td>15:00</td>
<td>A Fast Clathrin-Independent Endocytic Mechanism</td>
<td>Harvey McMahon (Cambridge/GB)</td>
</tr>
<tr>
<td>15:30</td>
<td>A Toolbox of Dihydroxyacetone Dependent Aldolases for Enzymatic C-C Bond Formation</td>
<td>Anne Samland (Stuttgart/DE)</td>
</tr>
<tr>
<td>15:45</td>
<td>Characterization and Application of Novel Naturally Split Inteins from Metagenomic Sources with Unusual Properties</td>
<td>Anna-Lena Bachmann (Münster/DE)</td>
</tr>
</tbody>
</table>
16:00 Interfacial Activation of Candida Antarctica Lipase B – Combined Evidence from Experiment and Simulation Kerstin Blank (Nijmegen/NL)

16:15 Change in Protein-Ligand Specificity Through Binding Pocket Grafting Birte Höcker (Tübingen/DE)

14:30–16:30 Study Group Session 8 – Translation and Folding
Chair Karl-Peter Hopfner (Munich/DE) Johannes Buchner (Garching/DE)

14:30 Single Molecule Mechanics of Protein Folding and Interaction Matthias Rief (Garching/DE)

15:00 The Ribosome-Bound RAC/Ssb Chaperone System of Yeast Prevents Premature Release of Nascent Chains from Pausing Ribosomes Sabine Rospert (Freiburg/DE)

15:30 Prolyl Isomerization in Protein Folding and its Catalysis Franz X. Schmid (Bayreuth/DE)

15:50 Proressive Movement and Pausing of Ribodomes During mRNA Translation Marina Rodnina (Göttingen/DE)

16:10 The Function of the Universally Conserved Translation Elongation Factor EF-P Daniel N. Wilson (Munich/DE)
**Scientific Programme • Saturday • 5. Oct. 2013**

**15:30–16:00**  
Meet the Prof  
Lecture Hall 7  
Junior GBM Session

**16:30–18:00**  
Coffee Break and Postersession II (see page 40)

**18:00–18:30**  
**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)

**18:30–19:30**  
**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 **19:30**  
**Social Event/Dinner** (see page 78)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Chair/Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0900-1100</td>
<td>Study Group Session 9 – ROS– Generating Complexes and Intracellular Signaling</td>
<td>Carola Hunte (Freiburg/DE), Johannes Herrmann (Kaiserslautern/DE)</td>
</tr>
<tr>
<td>0900</td>
<td>Compartmentation of Thiol-Redox Control in the Eukaryotic Cell</td>
<td>Michel B. Toledano (Gif-sur-Yvette/FR)</td>
</tr>
<tr>
<td>0930</td>
<td>Mitochondrial Complex I and Redox Signaling</td>
<td>Ulrich Brandt (Nijmegen/NL)</td>
</tr>
<tr>
<td>1000</td>
<td>Reversible Protein S-Thiolation in Mycobacterium Tuberculosis: Structural and Mechanistic Insights into Mycoredoxins</td>
<td>Joris Messens (Brussels/BE)</td>
</tr>
<tr>
<td>1020</td>
<td>Molecular Mechanisms of Superoxide Production by Cytochrome bc1</td>
<td>Artur Osyczka (Krakow/PL)</td>
</tr>
<tr>
<td>1040</td>
<td>The Structure of the Na+-Translocating NADH – Ubiquinone Oxidoreductase from Vibrio cholerae at 3.7 Å Resolution</td>
<td>Guenter Fritz (Freiburg/DE)</td>
</tr>
<tr>
<td>0900-1100</td>
<td>Study Group Session 10 – RNA Chemical Biology</td>
<td>Mark Helm (Mainz/DE)</td>
</tr>
<tr>
<td>0900</td>
<td>Imaging RNA and RNA Biology Using RNA Mimics of Green Fluorescent Protein</td>
<td>Samie Jaffrey (New York, NY/US)</td>
</tr>
<tr>
<td>0930</td>
<td>Combining Chemo-Enzymatic Capture and Deep Sequencing in the Search for New Functional RNAs</td>
<td>Andres Jäschke (Heidelberg/DE)</td>
</tr>
<tr>
<td>1000</td>
<td>Functional Nucleic Acids for RNA Ligation and Labeling</td>
<td>Claudia Höbartner (Göttingen/DE)</td>
</tr>
<tr>
<td>1020</td>
<td>Structure-Guided Discovery of a Novel Aminoglycoside Conjugate Targeting HIV-1 RNA Viral Genome</td>
<td>Eric Ennifar (Strasbourg/FR)</td>
</tr>
<tr>
<td>1040</td>
<td>Engineered GuideRNA-Dependent Deaminases – A Tool to Reprogram RNA Function</td>
<td>Thorsten Stafforst (Tübingen/DE)</td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
<td>Venue</td>
</tr>
<tr>
<td>-------</td>
<td>--------------------------------------------------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>0900–1100</td>
<td>Study Group Session 11 – Bioanalytics and Bioinformatics: Joint Forces to Understand Cellular Networks</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lecture Hall 5</td>
<td>Ina Koch (Frankfurt a. M./DE)</td>
</tr>
<tr>
<td>0900</td>
<td>Systems Biology Modeling Techniques for Metabolic Networks</td>
<td>INV41</td>
</tr>
<tr>
<td>0930</td>
<td>Systematic Characterization of Human Platelets in Arterial Vascular Disorders by Quantitative Proteomics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lecture Hall 5</td>
<td>Albert Sickmann (Dortmund/DE)</td>
</tr>
<tr>
<td>1000</td>
<td>Mathematical Modeling of Plant Metabolic Processes</td>
<td>INV43</td>
</tr>
<tr>
<td>0900–1100</td>
<td>Study Group Session 12 – Integrating Genomics and Metabolomics for Gene Discovery in Plants</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lecture Hall 6</td>
<td>Rüdiger Hell (Heidelberg/DE)</td>
</tr>
<tr>
<td>0900</td>
<td>Metabolomics-Based Functional Genomics in Plants</td>
<td>INV44</td>
</tr>
<tr>
<td>0930</td>
<td>Plant Transport Engineering – Exploitation of Transport Processes to Remove Anti Nutritional Compounds</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lecture Hall 5</td>
<td>Barbara A. Halkier (Frederiksberg/DK)</td>
</tr>
<tr>
<td>1000</td>
<td>Gene Clustering of Plant Secondary Metabolite Pathways</td>
<td>INV46</td>
</tr>
<tr>
<td>1020</td>
<td>Multiscale Metabolic Modeling – Dynamic Flux Balance Analysis on a Whole Plant Scale</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lecture Hall 5</td>
<td>Björn Junker (Halle, Saale/DE)</td>
</tr>
<tr>
<td>1100–1130</td>
<td>Coffee Break</td>
<td></td>
</tr>
</tbody>
</table>
| 1130–1145 | Poster Awards                                                             | Lecture Hall 1 | Jürgen Soll (Planegg-Martinsried/DE)  
|       |                                                                       |             | Johannes Buchner (Garching/DE)                  |
| 1145–1230 | Closing Lecture                                                          | Lecture Hall 1 | Gene Transcription and Genomic Regulation  
<p>|       |                                                                       |             | Patrick Cramer (Munich/DE)                      |
| 1230–1300 | Final Remarks and End of Conference                                       |             |                                                   |</p>
<table>
<thead>
<tr>
<th>Overview</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioanalytics and Bioinformatics – Joint Forces to Understand Cellular Networks (AI) (AIP01-AIP08, PKV13)</td>
</tr>
<tr>
<td>Bioenergetics (BE)</td>
</tr>
<tr>
<td>(BEP01-BEP10, PKV19)</td>
</tr>
<tr>
<td>Biophysical and Evolutionary Aspects of Protein Engineering (PE)</td>
</tr>
<tr>
<td>(PEP01-PEP17, PEV01-PEV04)</td>
</tr>
<tr>
<td>Cellular Biology of Metabolism (MB)</td>
</tr>
<tr>
<td>(MBP01-MBP09, PKV20)</td>
</tr>
<tr>
<td>Current Trends and Developments in Structural Analysis of Biological Macromolecules (SA)</td>
</tr>
<tr>
<td>(SAP01-SAP13, PKV26, PKV31)</td>
</tr>
<tr>
<td>Dissection and Targeting of Signal Transduction Pathways (ST)</td>
</tr>
<tr>
<td>(STP01-STP17, PKV01, PKV03, PKV04, PKV10, PKV34)</td>
</tr>
<tr>
<td>Free Topic (FT)</td>
</tr>
<tr>
<td>(FTP02-FTP51, PKV05, PKV14, PKV23, PKV24)</td>
</tr>
<tr>
<td>Glycobiology of Human Diseases (GL)</td>
</tr>
<tr>
<td>(GLP01-GLP07, GLV01, GLV02, PKV18)</td>
</tr>
<tr>
<td>GTPases in Health and Disease (GT)</td>
</tr>
<tr>
<td>(GTP01-GTP04, GTV01, GTV02, PKV02, PKV06, PKV08, PKV12)</td>
</tr>
<tr>
<td>Membranes and Transport (MT)</td>
</tr>
<tr>
<td>(MTP01-MTP39, PKV07, PKV11, PKV17, PKV 25, PKV27-PKV30 PKV32, PKV35)</td>
</tr>
<tr>
<td>Protein Biosynthesis and Folding (BF)</td>
</tr>
<tr>
<td>(BFP01-BFP14, PKV16, PKV33)</td>
</tr>
<tr>
<td>Redoxbiology (RB)</td>
</tr>
<tr>
<td>(RBP01-RBP21, PKV09, PKV21)</td>
</tr>
<tr>
<td>RNA Biochemistry (RN)</td>
</tr>
<tr>
<td>(RNP01-RNP19, RNV01, PKV15, PKV36)</td>
</tr>
<tr>
<td>Tumorigenesis and Paraneoplastic Syndromes (TP)</td>
</tr>
<tr>
<td>(TPP01-TPP07, PKV22)</td>
</tr>
</tbody>
</table>
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-κB 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
       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 Celullosome
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),

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  

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  

PEP04  New Bacterial Members in the Geranylgeranylglceryl 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  
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 Chitinosanase, a Novel Chitosan-Hydrolyzing Enzyme with a Specific Pattern of Activity
J. Beneteau, S. Cord-Landwehr, M. Kohlhoff, S. Chachra
N. El Guessedari, 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

MBP04 TLR4 Plays a Central Role in Mac-1-Mediated Monocyte Adhesion to Endothelial Cells Via 5-Lipoxygenase Expression

MBP05 5-Lipoxygenase Plays a Pivotal Role in Endothelial Adhesion of Monocytes Via an Increased Expression of Mac-1

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 PI4KIIα 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. Elegnas 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 Gaq-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 Ca\(^{2+}\) and the Activation of the PKC, Raf, ERK and Ternary Complex Factors
A. Kaufmann (Homburg/DE)
Identification and Characterization of a Novel Interacting Partner of LRRK2
P. Athanasopoulos, W. Jacob, R. Heumann (Bochum/DE)

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)

AMPK-Independent Anti-Angiogenic and Endothelial Barrier Stabilizing Effects of AMPK Inhibitor Compound C
M. Aslam, S. Rohrbach, C. Hamm, D. Gündüz (Giessen/DE)

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)

Active Wnt Proteins are Secreted on Exosomes
J. Gross, V. Chaudhary (Heidelberg/DE)
K. Bartscherer (Münster/DE), M. Boutros (Heidelberg/DE)

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)

Analysis in Phytochrome Hybrids of PhyB from A. Thaliana
S. von Horsten, L.-O. Essen (Marburg/DE)

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. Hodaei, 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 IsoformsTA*p63α AND gtap63α  
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 Nα-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 Nα-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 ΔNp63α and TAp73 by Structural and Functional Analysis  
J. Gebel, L. Laura, F. Löhr, D. Kirchner, D. Coutandin, S. Kehrlößer  
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. Kehrloesser (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. Shmidt (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. ljubisavljevic, I. Stojanovic (Nis/RS)

FTP42 Isolation of Polyketides Producing Actinomycete Isolates via PCR-
Based Genome Screening for PKS Gene
M. Adegbeye, 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 (Aβ1-42) 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)

GTPases in Health and Disease
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
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)

Membranes & Transport
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

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. Schüermann (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. Søgaard-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  

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. vor der Brüggen (Münster/DE)  
A. Koçer (Groningen/NL), R. Tampé (Frankfurt a. M./DE)

MTP24  The p7protein of Hepatitis C – Characterisation of Genotype-Specific Ion Channel Constructs and Novel Antiviral Agents  
H.-G. Breitinger, U. Breitinger (New Cairo/EG)

MTP25  (Re)constructing and Dissecting Membrane Proteins – Understanding Helix-Helix Interactions through Segmental Labelling and Solid-state NMR  
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)
MTP27 Identification of a Component of the Import Machinery at the Inner Membrane of Mitochondria as a Potential Calmodulin-Binding Protein
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
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
N. Akhtar (Lahore/PK)

MTP32 Archaellum – The Ancient Nanomachine – A Detailed Biochemical and Structural Dissection
A. Banerjee, P. Tripp, T. Neiner, A. Ghosh (Marburg/DE)
C.-L. Tsai (Berkley, CA/US), J. Vonck (Frankfurt a. M./DE)
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 α4 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

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 Oxidoreductase mia40
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 Engineering
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. Hölder, 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

Protein Biosynthesis and Folding

BFP01  Biochemistry of the Cell-Free Expressed Human Gonadotropin Relasing 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 Selenocysteine 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 ß-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. Mitlöchner, 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

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 TNFα-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)

RNA Biochemistry
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 Nanoparticular 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 Nanoparticular 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. Thuering (Mainz/DE), Y. Motorin (Vandoeuvre-les-Nancy/FR),  
M. Helm (Mainz/DE)

RNP13  Dye-Walk on Human Mitochondrial tRNAleu(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 Suppression In Vivo
O. Timofeev, K. Schlereth, T. Stiewe (Marburg/DE)
TPP02  Statistical Analysis of Cell Properties and Distribution in Hodgkin Lymphoma Whole Slide Images
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. Kehrloesser (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?
U. Bommer, P. Puri, A. Lochhead, P. Colligan
M. Radojkovic, J. Chen, B. Knoch, A. Hall, K. Vine (Wollongong/AU)

PKV22  Generation of a Cell Based System to Visualize Epithelial-Mesenchymal Transition (EMT) in Tumor Progression
J. Maier (Tübingen/DE), G. Sannino, C. Schmees (Reutlingen/DE)
U. Rothbauer (Tübingen/DE)

Late Abstracts
SAP15  Misregulation of the Hsc70 Chaperone Cycle impairs Muscle Functionality in C. elegans.
K. Papsdorf (Munich/DE)
Sponsors

Academics GmbH (Hamburg/DE)

BBA ELSEVIER B. V. (Amsterdam/NL)

Boehringer Ingelheim Pharma GmbH & Co. KG (Ingelheim am Rhein/DE)

Deutsche Forschungsgemeinschaft (DFG) (Bonn/DE)

de Gruyter (Berlin/DE)

Garland Science (Taylor And Francis Group) (Abington/GB)

Ludwig-Maximilians-Universität Munich (Munich/DE)

New England Biolabs (Frankfurt a. M./DE)

Novus Biologicals (Cambridge/GB)

Partec GmbH (Görlitz/DE)

Springer-Verlag GmbH (Heidelberg/DE)

VBIO – Verband Biologie, Biowissenschaften und Biomedizin in Deutschland (Berlin/DE)
academics GmbH (Hamburg/DE)
  • www.academics.de
Elsevier Limited (Oxford/GB)
  • Biotechnology Advances
  • Current Opinion in Biotechnology
  • New Biotechnology
MDPI AG (Basel/CH)
  • Molecules
S. Karger AG (Basel/CH)
  • Journal of Molecular Microbiology and Biotechnology
Springer Science+Business Media (New York, NY/US)
  • Applied Biochemistry and Biotechnology
succidia AG (Darmstadt/DE)
  • labor&more
Thieme Publishers (New York, NY/US)
  • Drug Research
Trillium GmbH (Grafrath/DE)
  • Trillium Report
Walter de Gruyter GmbH & Co. KG (Munich/DE)
  • Biomedizinische Technik
WEKA BUSINESS MEDIEN GmbH (Darmstadt/DE)
  • LABO – Analytik – Labortechnik – Life Sciences
WILEY-VCH Verlag GmbH & Co KGaA (Weinheim/DE)
  • GIT Laborfachzeitschrift

Exhibitor List

Alphabetical order
ABCAM plc (Cambridge/UK) 4
Academics GmbH (Hamburg/DE) 3
de Gruyter (Berlin/DE) 10
Elsevier B.V. (Amsterdam/NL) 1
Keyence International (Mechelen/BE) 8
Lipocalyx GmbH (Halle, Saale/DE) 7
Mettler-Toledo GmbH (Giessen/DE) 2
SERVA Electroporesis GmbH (Heidelberg/DE) 6
Springer DE (Heidelberg/DE) 9
Zymo Research Europe GmbH (Freiburg/DE) 5

State at printing
Plan of Exhibition Area

Goethe University - 2nd Floor

Lecture Hall 5
Lecture Hall 6
Social and Cultural Programme

Get Together at the Posters
The organizers welcome all participants of the conference at the posters. Beer, wine and snacks will be served.

Date Thursday • 3. Oct. 2013
Time 1915
Location 1st & 3rd Floor, Lecture Building
Fee Free of charge (registration is required)

Dinner & More
If you like to meet other attendees or the scientific organizers apart from the conference itself, we invite you to “Dinner & More” on Saturday evening. Enjoy food and drinks in an informal atmosphere. Join us for the after dinner party, which will take place with music and dance in a separate part of the Casino Building.

Date Saturday • 5. Oct. 2013
Time 1930
Location Casino Building (opposite to the Lecture Building)
Fee Undergraduates, PhD students 20 EUR
Academia, Retiree, industry 35 EUR
(registration is required)
NEW SUBSCRIBERS: Take 20% off

A peer-reviewed biomedical research journal, covering all aspects of new and established drug molecules and the evaluation of drug development.

Drug Research
Editor-in-Chief: M. Wehling
2014/Volume 64/12 issues p.a./ISSN 2194-9379

USA and Canada
Individuals: $769  $615
For individual subscriptions, please contact customerservice@thieme.com
For institutional licensing, please contact esales@thieme.com

Mexico, Central, and South America
Individuals: $823  $658
For individual subscriptions, please contact customerservice@thieme.com
For institutional licensing, please contact esales@thieme.com

Europe, Africa, Asia, Australia
Individuals: €498  €398
(Please add handling charges:
Germany €31.40, Europe €55.80, Africa, Asia, Australia €79.90)
For individual subscriptions, please contact customerservice@thieme.de
For institutional licensing, please contact eproducts@thieme.de

Bangladesh, Bhutan, India, Nepal, Pakistan, and Sri Lanka
For subscription rates in INR, please contact customerservice@thieme.in

SUBSCRIBE NOW AND STAY UP-TO-DATE IN 2014
Visit www.thieme.com/journals in order to subscribe or renew your subscription.
Take full advantage of your individual subscription by registering online at
www.thieme-connect/ ejournals:
• Individual subscribers get free online access to current and back issues of their journal(s)
• Advanced online access for select journals via the eFirst service
• Compatibility with smartphones and mobile devices
• Advanced search across our entire library of journals

Special introductory rates are only valid for new subscribers and are limited to the first year of subscription.
Only qualified professionals and students are eligible for individual subscriptions.
Orders from individuals must include the recipient's name and private address, and be paid by private funds.

Become a fan at www.facebook.com/thiemepublishers. Follow us @ThiemeNY
Invited Speakers

A
Albring, Kai Frederik
University Hospital Jena
Institute of Biochemistry II
Nonnenplan 2
07743 Jena

Antonin, Wolfram
Friedrich Miescher Laboratory of the Max Planck Society
Spermannstraße 39
72076 Tübingen/DE

Aspenström, Pontus
Karolinska Institute
Department of Microbiology Tumor and Cell Biology
Nobels Väg 16
SE-171 77 Stockholm/SE

B
Bacia, Kirsten
Martin-Luther-Universität Halle-Wittenberg
Interdisziplinäre Wissenschaftliche Einrichtung HALOmem
Kurt-Mothes-Straße 3
06120 Halle, Saale/DE

Benning, Christoph
Michigan State University
Department of Biochemistry and Molecular Biology
603 Wilson Road
MI-48824-1319 East Lansing, MI/US

Bork, Kaya
Martin-Luther-Universität Halle-Wittenberg
Medizinische Fakultät
Institut für Physiologische Chemie
Hollystraße 1
06114 Halle, Saale/DE

Bornscheuer, Uwe T.
Ernst-Moritz-Arndt University
Institute of Biochemistry
Department of Biotechnology & Enzyme Catalysis
Felix-Hausdorff-Straße 4
17487 Greifswald/DE

Brandt, Ulrich
Radboud University
Nijmegen Medical Centre
Nijmegen Centre for Mitochondrial Disorders
Geert Grooteplein Zuid 10
6500 HB Nijmegen/NL

Braun, Jörg
University of Massachusetts Medical School
Howars Hughes Medical Institute
Moore Laboratory
4000 Jones Bridge Road
MD 20815 Chevy Chase, MD/US

C
Clausen, Henrik
University of Copenhagen
Copenhagen Center for Glycomics
Department of Cellular and Molecular Medicine
Blegdamsvej 3B
2200 Copenhagen/DK

Cramer, Patrick
Ludwig-Maximilians-Universität Munich
Department of Biochemistry
Gene Center Munich
Feodor-Lynen-Straße 25
81377 Munich/DE

Cramer, William A.
Purdue University
Department of Biological Sciences
Hockmeyer Building of Structural Biology
240 S. Martin Jischke Drive
IN 47907 West Lafayette, IN/US

D
Dalmau, Josep Obrador
ICREA-IDIBAPS
Neurology
Villarroel 170
08036 Barcelona/ES
Invited Speakers

Dingermann, Theo
Goethe Universität
Institut für Pharmazeutische Biologie
Biozentrum
Max-von-Laue Straße 9
60438 Frankfurt a. M./DE

Dobbek, Holger
Humboldt-Universität zu Berlin
Institut für Biologie
Unter den Linden 6
10099 Berlin/DE

dos Santos, Karine Fernanda
Free University Berlin
Department of Structural Biology
Institute for Chemistry and Biochemistry
Takustrasse 6
14195 Berlin/DE

E
Ennifar, Eric
CNRS Strasbourg
Architecture et Réactivité de l’Arn
15 rue René Descartes
67084 Strasbourg/FR

F
Fernández-Sáiz, Vanesa
TU Munich
III. Medizinische Klinik
Hämatologie/Onkologie
Ismaningerstraße
81675 Munich/DE

Fischer, Rainer
Fraunhofer-Institut für Molekularbiologie und Angewandte Oekologie
Senior Executive Director
Forckenbeckstraße 6
52074 Aachen/DE

G
Goody, Roger
Max-Planck-Institut für molekulare Physiologie
Physikalische Biochemie
Otto-Hahn-Straße 11
44227 Dortmund/DE

Grafahrend-Belau
Leibniz-Institut für Pflanzengenetik und Kulturpflanzenforschung
Corrensstraße 3
06466 Gatersleben/DE

H
Halkier, Barbara Ann
University of Copenhagen
Department of Plant and Environmental Sciences
Center for Dynamic Molecular Interactions
Thorvaldsensvej 40
01871 Frederiksberg/DK

Hayer-Hartel, Manajit
Max Planck Institute of Biochemistry
Department of Cellular Biochemistry
Am Klopferspitz 18
82152 Martinsried/DE

Hiller, Sebastian
Universität Basel
Biozentrum
Klingelbergstraße 70
4056 Basel/CH

Höbartner, Claudia
Max-Planck-Institute for Biophysical Chemistry
Research group Nucleic Acid Chemistry
Am Fassberg 11
37077 Göttingen/DE

I
Inzé, Dirk
Ghent University
VIB Department of Plant Systems Biology UGent
VIB Research Building FSVM
Technologiepark 927
9052 Ghent/BE
<table>
<thead>
<tr>
<th>Initial</th>
<th>Name</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>J</td>
<td>Jäschke, Andreas</td>
<td>Ruprecht-Karls-University Institut für Pharmazie und Molekulare Biotechnologie</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pharmazeutische Chemie</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Im Neuenheimer Feld 364</td>
</tr>
<tr>
<td></td>
<td></td>
<td>69120 Heidelberg/DE</td>
</tr>
<tr>
<td>J</td>
<td>Jaffrey, Samie</td>
<td>Weill Medical College of Cornell University Department of Pharmacology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1300 York Avenue</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NY 10065 New York, NY/US</td>
</tr>
<tr>
<td>J</td>
<td>Jakob, Ursula</td>
<td>University of Michigan</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LSA Molecular, Cellular and Developmental Biology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>830 North University Avenue</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MI 48109-1048 Ann Arbor, MI/US</td>
</tr>
<tr>
<td>J</td>
<td>Jahn, Reinhard</td>
<td>Max Planck Institut für Biophysikalische Chemie, Neurobiologie</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Am Fassberg 11</td>
</tr>
<tr>
<td></td>
<td></td>
<td>37077 Göttingen/DE</td>
</tr>
<tr>
<td>J</td>
<td>Junker, Björn</td>
<td>Martin-Luther-Universität Halle-Wittenberg Institut für Pharmazie</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hoher Weg 8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>06120 Halle, Saale/DE</td>
</tr>
<tr>
<td>L</td>
<td>Lange, Oliver</td>
<td>Technische Universität Munich Department Chemie</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lichtenbergstraße 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>85747 Garching/DE</td>
</tr>
<tr>
<td>L</td>
<td>Lepenies, Bernd</td>
<td>Max Planck Institute of Colloids and Interfaces Potsdam Biomolecular Systems</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Am Mühlenberg 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>14476 Potsdam/DE</td>
</tr>
<tr>
<td>M</td>
<td>McMahon, Harvey</td>
<td>MRC Laboratory of Molecular Biology Neurobiology Division</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Francis Crick Avenue</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CB2 0QH Cambridge/GB</td>
</tr>
<tr>
<td>M</td>
<td>Messens, Joris</td>
<td>Vrije Universiteit Brussel Structural Biology-VUB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pleinlaan 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1050 Brussles/BE</td>
</tr>
<tr>
<td>N</td>
<td>Niehrs, Christof</td>
<td>Institut für Molekulare Biologie gGmbH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ackermannweg 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>55128 Mainz/DE</td>
</tr>
<tr>
<td>N</td>
<td>Nunnari, Jodi</td>
<td>University of California, Davis College of Biological Sciences Molecular &amp; Cellular Biology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>One Shields Avenue</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CA 95616 Davis, CA/US</td>
</tr>
<tr>
<td>O</td>
<td>Osyczka, Artur</td>
<td>Jagiellonian University Molecular Biophysics Faculty of Biochemistry, Biophysics and Biotechnology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ul. Gronostajowa 7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30-387 Krakow/PL</td>
</tr>
<tr>
<td>O</td>
<td>Ottmann, Christian</td>
<td>Technische Universität Eindhoven Department of Biomedical Engineering Chemical Biology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>P.O. Box 513</td>
</tr>
<tr>
<td></td>
<td></td>
<td>05600 MB Eindhoven/NL</td>
</tr>
<tr>
<td>O</td>
<td>Ovaa, Huib</td>
<td>Netherlands Cancer Institute (NKI) Cell Biology II</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Plesmanlaan 121</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1066 CX Amsterdam/NL</td>
</tr>
</tbody>
</table>
Invited Speakers

P
Papadopoulos, Theofilos
Max-Planck-Institut für Experimentelle Medizin
Herrmann-Rein Straße 3
37075 Göttingen/DE

Püschel, Andreas
Westfälische Wilhelms Universität Münster
Institut für molekulare Zellbiologie
Molekularbiologie
Schlossplatz 5
48149 Münster/DE

R
Reetz, Manfred
Universität Marburg
Institut für Organische Chemie
Hans-Meerwein-Straße 4
35032 Marburg/DE

Reinhard, Christian
Universitätsklinikum Cologne
Medizin I
Kerpener Straße 62
50937 Cologne/DE

Rief, Matthias
Technische Universität Munich
Physik-Department E22
James-Franck-Straße 1
85748 Garching

Rösch, Marina
Max-Planck-Institut für biophysikalische Chemie
Abteilung Physikalische Biochemie
Am Fassberg 11
37077 Göttingen/DE

Rospert, Sabine
Universität Freiburg
Institute of Biochemistry and Molecular Biology
Stefan-Meier-Straße 17
79104 Freiburg/DE

S
Saito, Kazuki
Chiba University, Riken
Graduate School of Pharmaceutical Sciences
Center for Sustainable Resource Science
Inohana 1-8-1
260-8675 Chuo-ku, Chiba/JP

Schäfer, Reinhold
Comprehensive Cancer Center
Institute of Pathology
Charité University Medicine Berlin
Charitéplatz 1
10117 Berlin/DE

Schekman, Randy
University of California at Berkeley
Molecular and Cell Biology
Schekman Lab
475D Li Ka Shing Center #3370
CA 94720-3370 Berkeley, CA/US

Schmid, Franz-Xaver
Universität Bayreuth
Laboratorium für Biochemie
Universitätsstraße 30
95440 Bayreuth/DE

Schrader, Thomas
University of Duisburg-Essen
Organic Chemistry
Universitätsstraße 7
45117 Essen/DE

Schuster, Stefan
Friedrich Schiller Universität
Faculty of Biology and Pharmacy
Department of Bioinformatics
Ernst-Abbe-Platz 2
07743 Jena/DE

Sickmann, Albert
Leibniz-Institut für Analytische Wissenschaften – ISAS – e. V.
Otto-Hahn-Straße 6b
44227 Dortmund/DE

Silver, Pamela
Harvard Medical School
Department of Systems Biology
200 Longwood Ave
MA02115 Boston, MA/US
Invited Speakers

Sligar, Stephen Gary
University of Illinois at Urbana-Champaign – Biochemistry
School of Molecular and Cellular Biology
505 S. Goodwin Avenue
IL 61801 Urbana, IL/US

Söding, Johannes
Ludwig-Maximilians-Universität Munich
Department Chemie und Genzentrum Munich
Feodor-Lynen-Straße 25
81377 Munich/DE

Stark, Holger
MPI Biophysikalische Chemie
Molekulare 3D Kryo-Elektronenmikroskopie
Am Fassberg 11
37077 Göttingen/DE

Strissel, Pamela
Frauenklinik Erlangen
Labor für Molekulare Medizin
Universitätsstraße 21-23
91054 Erlangen/DE

T
Tampé, Robert
Goethe University
Institute of Biochemistry
Biocenter
Mac-von-Laue-Straße 9
60438 Frankfurt a. M./DE

Tavernier, Jan
University of Ghent
VIB Department of Medical Protein Research
Albert Baertsoenkaai 3
9000 Ghent/BE

Than, Manuel
Leibniz Institut für Altersforschung (FLI)
Beutenbergstraße 11
07745 Jena/DE

Toledano, Michel B.
Institute de Biologie et de Technologies de Saclay
CEA Life Science Division
CEA Saclay/Bât. 142
91191 Gif-sur-Yvette/FR

U
Uhlén, Matthias
AlbaNova University Center
KTH Biotechnology
Royal Institute of Technology (KTH)
106 91 Stockholm/SE

V
van der Laan, Martin
University of Freiburg
Institute of Biochemistry and Molecular Biology
Stefan-Meier-Straße 17
79104 Freiburg/DE

W
Weigel, Detlef
Max Planck Institute for Developmental Biology
Molecular Biology
Spemannstraße 37-39
72076 Tübingen/DE

Wilson, Daniel N.
Ludwig-Maximilians-Universität Munich
Gene Center and Department of Biochemistry
Feodor-Lynen-Straße 25
81377 Munich/DE

Winzer, Thilo
University of York
Centre for Novel Agricultural Products
Department of Biology
Wentworth Way
Y010 5 DD York/GB

Y
Youle, Richard James
NIH Clinical Center
Porter Neuroscience Research Center
Surgical Neurology Branch, NINDS
35 Convent Drive, MSC 3704
MD 2089-3704 Bethesda, MD/US
# Index of presenting Authors and Chairs

<table>
<thead>
<tr>
<th>A Abbasi, N.</th>
<th>55</th>
<th>Bonke, E.</th>
<th>66</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abdolvand, Y.</td>
<td>51</td>
<td>Bork, K.</td>
<td>30</td>
</tr>
<tr>
<td>Adegboye, M.</td>
<td>55</td>
<td>Bornscheuer, U.</td>
<td>33</td>
</tr>
<tr>
<td>Akhtar, M. W.</td>
<td>55</td>
<td>Bramkamp, M.</td>
<td>26</td>
</tr>
<tr>
<td>Akhtar, N.</td>
<td>62</td>
<td>Brandt, U.</td>
<td>38</td>
</tr>
<tr>
<td>Aktan, F.</td>
<td>56</td>
<td>Braner, M.</td>
<td>27, 56</td>
</tr>
<tr>
<td>Albring, K. F.</td>
<td>31</td>
<td>Braun, J.</td>
<td>22</td>
</tr>
<tr>
<td>Alfermann, J.</td>
<td>47</td>
<td>Breitinger, H.-G.</td>
<td>61</td>
</tr>
<tr>
<td>Al-Furoukh, N.</td>
<td>29, 64</td>
<td>Breloy, I.</td>
<td>57</td>
</tr>
<tr>
<td>Ali, M.</td>
<td>29</td>
<td>Brinkmann, S.</td>
<td>43</td>
</tr>
<tr>
<td>Al-Jaber, N.</td>
<td>51</td>
<td>Buchner, J.</td>
<td>33, 34, 36, 37, 39</td>
</tr>
<tr>
<td>Alves, J.</td>
<td>24</td>
<td>Buettner, K.</td>
<td>52</td>
</tr>
<tr>
<td>Amstein, L.</td>
<td>41</td>
<td>Burse, A.</td>
<td>60</td>
</tr>
<tr>
<td>Angerer, H.</td>
<td>42</td>
<td>Busch, F.</td>
<td>43</td>
</tr>
<tr>
<td>Antonin, W.</td>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aslam, M.</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aspenström, P.</td>
<td>32</td>
<td>Calinescu, O.</td>
<td>60</td>
</tr>
<tr>
<td>Athanasopoulos, P.</td>
<td>50</td>
<td>Cavlovic, L.</td>
<td>52</td>
</tr>
<tr>
<td>Cheffer, A.</td>
<td>54</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Choi, E. K.</td>
<td>46</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B Bach, J.</td>
<td>63</td>
<td>Clausen, H.</td>
<td>30</td>
</tr>
<tr>
<td>Bachmann, R.</td>
<td>61</td>
<td>Cramer, P.</td>
<td>39</td>
</tr>
<tr>
<td>Bachmann, A.-L.</td>
<td>45</td>
<td>Cramer, W. A.</td>
<td>25</td>
</tr>
<tr>
<td>Bacia, K.</td>
<td>35</td>
<td>Csintalan, F.</td>
<td>61</td>
</tr>
<tr>
<td>Bandow, J.</td>
<td>62</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Banerjee, A.</td>
<td>62</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Banning, A.</td>
<td>49</td>
<td>Dahms, S. O.</td>
<td>47</td>
</tr>
<tr>
<td>Bareth, B.</td>
<td>60</td>
<td>Dalmau, J. O.</td>
<td>34</td>
</tr>
<tr>
<td>Barnard, S.-J.</td>
<td>58</td>
<td>Dams, M.</td>
<td>54</td>
</tr>
<tr>
<td>Bashir, U.</td>
<td>46</td>
<td>Debus, F.</td>
<td>48</td>
</tr>
<tr>
<td>Bazzone, A.</td>
<td>60</td>
<td>Decker, V.</td>
<td>28, 56</td>
</tr>
<tr>
<td>Beck, K.-F.</td>
<td>67</td>
<td>Deponte, M.</td>
<td>59, 66</td>
</tr>
<tr>
<td>Becker, M.</td>
<td>27, 66</td>
<td>Dick, M.</td>
<td>43</td>
</tr>
<tr>
<td>Beneteau, J.</td>
<td>45</td>
<td>Diederich, K.</td>
<td>66</td>
</tr>
<tr>
<td>Benning, C.</td>
<td>34</td>
<td>Dingermann, T.</td>
<td>22</td>
</tr>
<tr>
<td>Bilal, Z.-E.-H.</td>
<td>46</td>
<td>Dirks-Hofmeister, M. E.</td>
<td>44</td>
</tr>
<tr>
<td>Blank, K.</td>
<td>36, 45</td>
<td>Dobbek, H.</td>
<td>30</td>
</tr>
<tr>
<td>Blees, A.</td>
<td>62</td>
<td>dos Santos, K.</td>
<td>23</td>
</tr>
<tr>
<td>Boczek, E.</td>
<td>64</td>
<td>Drazic, A.</td>
<td>66</td>
</tr>
<tr>
<td>Bohr, W.</td>
<td>48</td>
<td>Dübel, S.</td>
<td>48</td>
</tr>
<tr>
<td>Bommer, U.-A.</td>
<td>64</td>
<td>Düsterhöft, S.</td>
<td>68</td>
</tr>
<tr>
<td>Bonar, D.</td>
<td>57</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Index of presenting Authors and Chairs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>E</strong></td>
<td><strong>H</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eckl, J.</td>
<td>Habich, M.</td>
<td>65</td>
<td></td>
</tr>
<tr>
<td>Egidi, M. J.</td>
<td>Halkier, B. A.</td>
<td>39</td>
<td></td>
</tr>
<tr>
<td>Einloft, J.</td>
<td>Hanisch, F.-G.</td>
<td>57</td>
<td></td>
</tr>
<tr>
<td>Einsle, O.</td>
<td>Haslbeck, V.</td>
<td>47</td>
<td></td>
</tr>
<tr>
<td>Elling, L.</td>
<td>Hauenschild, R.</td>
<td>69</td>
<td></td>
</tr>
<tr>
<td>Engel, T.</td>
<td>Haus, P.</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>Ennifar, E.</td>
<td>Hayer-Hartl, M.</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>Erdogan, A.</td>
<td>Hedrih, A.</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>Erler, A.</td>
<td>Hell, R.</td>
<td>33, 34, 39</td>
<td></td>
</tr>
<tr>
<td>Ernst, R.</td>
<td>Hellmann, N.</td>
<td>61</td>
<td></td>
</tr>
<tr>
<td>Essen, L.-O.</td>
<td>Helm, M.</td>
<td>38</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hengesbach, M.</td>
<td>70</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Henrich, E.</td>
<td>65</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Henze, M.</td>
<td>47</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herrmann, J.</td>
<td>27, 38</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herrmann, C.</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heumann, R.</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hildebrandt, T.</td>
<td>46</td>
<td></td>
</tr>
<tr>
<td>Fritz, G.</td>
<td>Hiller, S.</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hiller, C.</td>
<td>28, 68</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hirsch, M.</td>
<td>27, 70</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Höbartner, C.</td>
<td>38</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hodaei, D.</td>
<td>59</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hohnholt, M. C.</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>Galuska, S. P.</td>
<td>Holstein, J.</td>
<td>68</td>
<td></td>
</tr>
<tr>
<td>Garza Carbajal, A.</td>
<td>Hopfner, K.-P.</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>Gebel, J.</td>
<td>Horn, T.</td>
<td>66</td>
<td></td>
</tr>
<tr>
<td>Geisselbrecht, Y.</td>
<td>Hozefi, S.</td>
<td>70</td>
<td></td>
</tr>
<tr>
<td>Gellert, M.</td>
<td>Hromatké, G.</td>
<td>62</td>
<td></td>
</tr>
<tr>
<td>Genz, M.</td>
<td>Huber, M.</td>
<td>53</td>
<td></td>
</tr>
<tr>
<td>Ghairi, T.</td>
<td>Hucho, T.</td>
<td>27</td>
<td></td>
</tr>
<tr>
<td>Giehl, K.</td>
<td>Hunte, C.</td>
<td>38</td>
<td></td>
</tr>
<tr>
<td>Giese, H.</td>
<td>27, 41</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Giltsbach, B.</td>
<td>26, 59</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gnanapragassam, V.</td>
<td>57</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Goody, R.</td>
<td>22, 37</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grafahrrend-Belau, E.</td>
<td>39</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gross, J.</td>
<td>26, 50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gruenberg, R.</td>
<td>Ince, S.</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>Grunz, F.</td>
<td>Inzé, D.</td>
<td>33</td>
<td></td>
</tr>
<tr>
<td>Guder, J. C.</td>
<td>Isensee, J.</td>
<td>49</td>
<td></td>
</tr>
<tr>
<td>Gueneri, D.</td>
<td>Itzen, A.</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>Gummlich, I.</td>
<td>71</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gupta, P.</td>
<td>68</td>
<td></td>
<td></td>
</tr>
<tr>
<td>J</td>
<td>62</td>
<td>L</td>
<td>51</td>
</tr>
<tr>
<td>-------------------------</td>
<td>----</td>
<td>--------------------------</td>
<td>----</td>
</tr>
<tr>
<td>Jadhav, B.</td>
<td></td>
<td>Lam, T. V. H.</td>
<td></td>
</tr>
<tr>
<td>Jaffrey, S.</td>
<td>38</td>
<td>Lange, O.</td>
<td>30</td>
</tr>
<tr>
<td>Jahn, R.</td>
<td>35</td>
<td>Langklotz, S.</td>
<td>65</td>
</tr>
<tr>
<td>Jakob, U.</td>
<td>34</td>
<td>Lee, S.</td>
<td>46</td>
</tr>
<tr>
<td>Jäschke, A.</td>
<td>38</td>
<td>Leichert, L. I.</td>
<td>68</td>
</tr>
<tr>
<td>Joedicke, L.</td>
<td>26</td>
<td>Lenders, M. H. H.</td>
<td>59</td>
</tr>
<tr>
<td>Jortzik, E.</td>
<td>68</td>
<td>Lenger, K.</td>
<td>68</td>
</tr>
<tr>
<td>Junker, B.</td>
<td>39</td>
<td>Lepenies, B.</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Leroux, A. E.</td>
<td>66</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Leufken, C. M.</td>
<td>47</td>
</tr>
<tr>
<td>K</td>
<td></td>
<td>Linster, E.</td>
<td>53</td>
</tr>
<tr>
<td>Kaese, M.</td>
<td>57</td>
<td>Luh, L.</td>
<td>53</td>
</tr>
<tr>
<td>Kaiser, S.</td>
<td>69</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kämpf, M.</td>
<td>57</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kao, W.-C.</td>
<td>42</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Karamitros, C. S.</td>
<td>44</td>
<td>Madhyastha, H.</td>
<td>47</td>
</tr>
<tr>
<td>Kaufmann, A.</td>
<td>49</td>
<td>Maier, J.</td>
<td>28, 71</td>
</tr>
<tr>
<td>Kehroessler, S.</td>
<td>71</td>
<td>Mandel, P.</td>
<td>67</td>
</tr>
<tr>
<td>Kellner, S.</td>
<td>70</td>
<td>Marx, S.-H.</td>
<td>53</td>
</tr>
<tr>
<td>Kern, M.</td>
<td>42</td>
<td>Masaoud, M.</td>
<td>55</td>
</tr>
<tr>
<td>Kharde, S.</td>
<td>63</td>
<td>Matern, J.</td>
<td>44</td>
</tr>
<tr>
<td>Kirschner, F.</td>
<td>26</td>
<td>McMahon, H. T.</td>
<td>35</td>
</tr>
<tr>
<td>Kloos, M.</td>
<td>48</td>
<td>Mehler, M.</td>
<td>61</td>
</tr>
<tr>
<td>Kluth, M.</td>
<td>59</td>
<td>Meister, M.</td>
<td>59</td>
</tr>
<tr>
<td>Kmita, K.</td>
<td>42</td>
<td>Mertins, B.</td>
<td>29, 64</td>
</tr>
<tr>
<td>Knauer, S.</td>
<td>31</td>
<td>Messens, J.</td>
<td>38</td>
</tr>
<tr>
<td>Knuppertz, L.</td>
<td>52</td>
<td>Metikala, S.</td>
<td>28, 56</td>
</tr>
<tr>
<td>Koch, I.</td>
<td>39</td>
<td>Meyners, C.</td>
<td>52</td>
</tr>
<tr>
<td>Kofink, D.</td>
<td>52</td>
<td>Morath, V.</td>
<td>56</td>
</tr>
<tr>
<td>Kohlstädtt, M.</td>
<td>56</td>
<td>Moreth, A.</td>
<td>61</td>
</tr>
<tr>
<td>Korbus, M.</td>
<td>54</td>
<td>Moseler, R.</td>
<td>42</td>
</tr>
<tr>
<td>Kotini, S. B.</td>
<td>65</td>
<td>Mueller, J. W.</td>
<td>46</td>
</tr>
<tr>
<td>Kratochwil, M.</td>
<td>51</td>
<td>Müller, G.</td>
<td>63</td>
</tr>
<tr>
<td>Kretschmer, S.</td>
<td>27</td>
<td>Müller, A.</td>
<td>49</td>
</tr>
<tr>
<td>Kreig, B.</td>
<td>70</td>
<td>Musunda, B.</td>
<td>67</td>
</tr>
<tr>
<td>Kruspe, S.</td>
<td>70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kühle, P.</td>
<td>55</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kühne, S.</td>
<td>60</td>
<td>Nagpal, J.</td>
<td>26, 50</td>
</tr>
<tr>
<td>Kutsch, M.</td>
<td>58</td>
<td>Nawroth, T.</td>
<td>63</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Neerincx, A.</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Neumann, S.</td>
<td>54</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ni, Y.</td>
<td>27, 43</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Niehrs, C.</td>
<td>24</td>
</tr>
<tr>
<td>Authors/Chairs</td>
<td>Page Numbers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------</td>
<td>--------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Norouzy, A.</td>
<td>61</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nunnari, J.</td>
<td>33</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nürenberg, E.</td>
<td>65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nurhayati, R. W.</td>
<td>67</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rehling, P.</td>
<td>33, 35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reichel, K.</td>
<td>47</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reimann, S.</td>
<td>61</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reinhardt, C.</td>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reinsch, C.</td>
<td>62</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Restiawaty, E.</td>
<td>51</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Richter, C.</td>
<td>44</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Richter, K.</td>
<td>28, 48</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rief, M.</td>
<td>36</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rodnina, M.</td>
<td>36</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Röpert, S.</td>
<td>36</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rubini, M.</td>
<td>44</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ruge, H.</td>
<td>62</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saito, K.</td>
<td>39</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Samland, A.</td>
<td>35, 45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sandhoff, R.</td>
<td>45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schäfer, R.</td>
<td>31</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schäfer, H.</td>
<td>71</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scheiner-Bobis, G.</td>
<td>62</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schekman, R.</td>
<td>22, 23</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schenk, B.</td>
<td>68</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schindler, S.</td>
<td>65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schließ, E.</td>
<td>22, 24, 25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schleyer, B.</td>
<td>71</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schlosser, S.</td>
<td>67</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schmid, F.</td>
<td>36</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schmid, K.</td>
<td>69</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schmidt, S.</td>
<td>60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schmitt, L.</td>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schneider, M.</td>
<td>53</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schneider, D.</td>
<td>24, 25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scholz, E.</td>
<td>69</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schöneberger, H.</td>
<td>67</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schöneborn, H.</td>
<td>55</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schrader, T.</td>
<td>31</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schuhmacher, C.</td>
<td>51</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schuster, S.</td>
<td>39</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schwarz, C.</td>
<td>28, 63</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schweiger, M.</td>
<td>59</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seddigh, S.</td>
<td>41</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Author</td>
<td>Page</td>
<td>Chair</td>
<td></td>
</tr>
<tr>
<td>--------------------------------</td>
<td>------</td>
<td>--------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Shahid, S. M.</td>
<td>51</td>
<td>Vaezzadeh, M.</td>
<td></td>
</tr>
<tr>
<td>Shihan, M.</td>
<td>50</td>
<td>van der Does, C.</td>
<td></td>
</tr>
<tr>
<td>Shojaei, H.</td>
<td>44</td>
<td>van der Laan, M.</td>
<td></td>
</tr>
<tr>
<td>Sickmann, A.</td>
<td>39</td>
<td>Veelken, R.</td>
<td></td>
</tr>
<tr>
<td>Silver, P.</td>
<td>24</td>
<td>Veit, M.</td>
<td></td>
</tr>
<tr>
<td>Singh, N. K.</td>
<td>41</td>
<td>Vickneswaran, N.</td>
<td></td>
</tr>
<tr>
<td>Sinning, I.</td>
<td>28</td>
<td>Villmann, C.</td>
<td></td>
</tr>
<tr>
<td>Skultetyova, L.</td>
<td>65</td>
<td>Vogt, A.</td>
<td></td>
</tr>
<tr>
<td>Starig, S.</td>
<td>35</td>
<td>von Horsten, S.</td>
<td></td>
</tr>
<tr>
<td>Söding, J.</td>
<td>33</td>
<td>von Schaewen, A.</td>
<td></td>
</tr>
<tr>
<td>Soll, J.</td>
<td>22, 39</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sotzny, F.</td>
<td>67</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spengkuch, F.</td>
<td>70</td>
<td>Watcharin, W.</td>
<td></td>
</tr>
<tr>
<td>Sporer, M.</td>
<td>26, 59</td>
<td>Weigel, D.</td>
<td></td>
</tr>
<tr>
<td>Stafforste, T.</td>
<td>38</td>
<td>Weikert, T.</td>
<td></td>
</tr>
<tr>
<td>Stark, H.</td>
<td>30</td>
<td>Weizenmann, N.</td>
<td></td>
</tr>
<tr>
<td>Staubach, S.</td>
<td>30, 57</td>
<td>Wenz, T.</td>
<td></td>
</tr>
<tr>
<td>Steegborn, C.</td>
<td>30</td>
<td>Wienke, R.</td>
<td></td>
</tr>
<tr>
<td>Sterner, R.</td>
<td>35</td>
<td>Wiggers, J. C.</td>
<td></td>
</tr>
<tr>
<td>Stoll, R.</td>
<td>27, 59</td>
<td>Wilson, D.</td>
<td></td>
</tr>
<tr>
<td>Strissel, P.</td>
<td>34</td>
<td>Winzer, T.</td>
<td></td>
</tr>
<tr>
<td>Suleymanoglu, E.</td>
<td>46</td>
<td>Wirth, C.</td>
<td></td>
</tr>
<tr>
<td>Suzuki, H.</td>
<td>41</td>
<td>Wöllhaf, M.</td>
<td></td>
</tr>
<tr>
<td>Watcharin, W.</td>
<td>54</td>
<td>Wu, Y.</td>
<td></td>
</tr>
<tr>
<td>Weigel, D.</td>
<td>37</td>
<td>Wuensch, D.</td>
<td></td>
</tr>
<tr>
<td>Youle, R. J.</td>
<td>24</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yousefi, K.</td>
<td>51</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zamocky, M.</td>
<td>66</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zamudio-Vazquez, R.</td>
<td>71</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zickermann, V.</td>
<td>43</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zienert, A.</td>
<td>32</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zimmermann, J.</td>
<td>28, 64</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zindel, S.</td>
<td>41</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Uhlén, M.</td>
<td>24</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Urban, M.</td>
<td>61</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CONVENTUS
- Congressmanagement & Marketing GmbH -

• Relief and support to organising/scientific committees
• Professionalism
• Dependability and surety (competence)
• Increase profits
• Public relations management
• Attract new participants (attendees)
• Acquisition and maintenance (ongoing service) of industry partners
• Solicit new members
**TOPICS**

- Mechanisms of Gene Expression
- Membrane Structure and Function
- Receptors and Signaling
- Bioenergetics and Metabolomics
- Structural Biology and Biophysics
- Chemical Biology
- Systems and Theoretical Biology
- Molecular Mechanisms underlying Nervous System Function
- Molecular Medicine - from Mechanism of Disease to Therapy

**CONFERENCE CHAIR**

Prof. Dr. Volker Haucke
Leibniz Institut für Molekulare Pharmakologie, Berlin

**ORGANIZER**

Gesellschaft für Biochemie und Molekularbiologie (GBM)
Mörfelder Landstrasse 125 | 60598 Frankfurt/Main, Germany
www.gbm-online.de

**CONTACT**

MCI Deutschland GmbH
MCI – Berlin Office
Markgrafenstrasse 56 | 10117 Berlin, Germany
Phone: +49 (0) 30 20 45 90
Fax: +49 (0) 30 20 45 950
E-mail: febs2015@mci-group.com