<table>
<thead>
<tr>
<th>Saturday July 4</th>
<th>Sunday July 5</th>
<th>Monday July 6</th>
<th>Tuesday July 7</th>
<th>Wednesday July 8</th>
<th>Thursday July 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 AM</td>
<td>9:00 AM</td>
<td>9:00 AM</td>
<td>9:00 AM</td>
<td>9:00 AM</td>
<td>9:00 AM</td>
</tr>
<tr>
<td>Registration</td>
<td>6:30 AM–11:00 AM Parallel Symposia</td>
<td>6:30 AM–11:00 AM Parallel Symposia</td>
<td>6:30 AM–11:00 AM Parallel Symposia</td>
<td>6:30 AM–11:00 AM Parallel Symposia</td>
<td>6:30 AM–11:00 AM Parallel Symposia</td>
</tr>
<tr>
<td>11:00 AM</td>
<td>11:00 AM</td>
<td>11:00 AM</td>
<td>11:00 AM</td>
<td>11:00 AM</td>
<td>11:00 AM</td>
</tr>
<tr>
<td>Coffee Break</td>
<td>11:00 AM</td>
<td>11:00 AM</td>
<td>11:00 AM</td>
<td>11:00 AM</td>
<td>11:00 AM</td>
</tr>
<tr>
<td>1:00 PM</td>
<td>1:00 PM</td>
<td>1:00 PM</td>
<td>1:00 PM</td>
<td>1:00 PM</td>
<td>1:00 PM</td>
</tr>
<tr>
<td>Lunch Break</td>
<td>Lunch Break</td>
<td>Woman in Science Luncheon</td>
<td>Lunch Break</td>
<td>Lunch Break</td>
<td>Lunch Break</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>4:00 PM</td>
<td>4:00 PM</td>
<td>4:00 PM</td>
<td>4:00 PM</td>
<td>4:00 PM</td>
</tr>
<tr>
<td>5:00 PM</td>
<td>5:00 PM</td>
<td>5:00 PM</td>
<td>5:00 PM</td>
<td>5:00 PM</td>
<td>5:00 PM</td>
</tr>
<tr>
<td>Coffee Break</td>
<td>Coffee Break</td>
<td>Coffee Break</td>
<td>Coffee Break</td>
<td>Coffee Break</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>6:00 PM</td>
<td>6:00 PM</td>
<td>6:00 PM</td>
<td>6:00 PM</td>
<td>6:00 PM</td>
<td>6:00 PM</td>
</tr>
<tr>
<td>7:00 PM</td>
<td>7:00 PM</td>
<td>7:00 PM</td>
<td>7:00 PM</td>
<td>7:00 PM</td>
<td>7:00 PM</td>
</tr>
<tr>
<td>Conference Opening &amp; Welcome Address</td>
<td>Conference Opening &amp; Welcome Address</td>
<td>Conference Opening &amp; Welcome Address</td>
<td>Conference Opening &amp; Welcome Address</td>
<td>Conference Opening &amp; Welcome Address</td>
<td>Conference Opening &amp; Welcome Address</td>
</tr>
<tr>
<td>8:00 PM</td>
<td>8:00 PM</td>
<td>8:00 PM</td>
<td>8:00 PM</td>
<td>8:00 PM</td>
<td>8:00 PM</td>
</tr>
<tr>
<td>8:00 PM</td>
<td>8:00 PM</td>
<td>8:00 PM</td>
<td>8:00 PM</td>
<td>8:00 PM</td>
<td>8:00 PM</td>
</tr>
<tr>
<td>Welcome Reception Mixer in Exhibition Area</td>
<td>Welcome Reception Mixer in Exhibition Area</td>
<td>Welcome Reception Mixer in Exhibition Area</td>
<td>Welcome Reception Mixer in Exhibition Area</td>
<td>Welcome Reception Mixer in Exhibition Area</td>
<td>Welcome Reception Mixer in Exhibition Area</td>
</tr>
<tr>
<td>8:45 PM–10:00 PM</td>
<td>8:45 PM–10:00 PM</td>
<td>8:45 PM–10:00 PM</td>
<td>8:45 PM–10:00 PM</td>
<td>8:45 PM–10:00 PM</td>
<td>8:45 PM–10:00 PM</td>
</tr>
<tr>
<td>Networking Evening at Frannz Restaurant</td>
<td>Networking Evening at Frannz Restaurant</td>
<td>Networking Evening at Frannz Restaurant</td>
<td>Networking Evening at Frannz Restaurant</td>
<td>Networking Evening at Frannz Restaurant</td>
<td>Networking Evening at Frannz Restaurant</td>
</tr>
<tr>
<td>9:00 PM</td>
<td>9:00 PM</td>
<td>9:00 PM</td>
<td>9:00 PM</td>
<td>9:00 PM</td>
<td>9:00 PM</td>
</tr>
<tr>
<td>9:00 PM</td>
<td>9:00 PM</td>
<td>9:00 PM</td>
<td>9:00 PM</td>
<td>9:00 PM</td>
<td>9:00 PM</td>
</tr>
<tr>
<td>9:00 PM</td>
<td>9:00 PM</td>
<td>9:00 PM</td>
<td>9:00 PM</td>
<td>9:00 PM</td>
<td>9:00 PM</td>
</tr>
</tbody>
</table>
TABLE OF CONTENTS

Introduction 
Welcome Messages
Contacts/Committee/About the Organizers

Congress Information
General Information A–Z

Scientific Program
Main Program
Saturday, July 4, 2015
Sunday, July 5, 2015
Monday, July 6, 2015
Tuesday, July 7, 2015
Wednesday, July 8, 2015
Thursday, July 9, 2015
Poster Sessions
Overview
Poster Prizes
Sunday, July 5 & Monday, July 6
Tuesday, July 7 & Wednesday, July 8

Map
Estrel Convention Center – General Plan

Industrial Exhibition
Floor Plan
List of Exhibitors & Sponsors

Imprint

Visit EMBO at Booth B2.2
to learn more about our journals

Global reach – influential research
Introduction

It is my great pleasure to welcome you all to the 40th FEBS Congress which takes place in the unique city of Berlin. Having the FEBS Congress in Berlin carries considerable historic significance since the last and only earlier FEBS Congress in this city took place in 1986! Significantly, as stated in the FEBS Memoir book: "The 17th FEBS meeting was held in Berlin. However, because of the particular political status of the town, the organizers had to advertise the venue as being held in Berlin West." Thus, the 40th FEBS Congress is the first FEBS Congress in the united Berlin, the city which symbolized for many decades the division of Europe. For FEBS, which was one of the very few organizations bridging both parts of the divided Europe, it is obviously an additional reason for celebration.

The Federation of European Biochemical Societies organized its first annual meeting in London, immediately after its foundation in 1964. One of the main driving forces for the establishment of FEBS was the acute need to facilitate intra-European scientific communication and personal contacts. The early FEBS meetings eventually became the annual FEBS Congresses, and thus have a long history of bringing together scientists from all over Europe, including during the times of division by the "iron curtain", to present and discuss the latest research results and to spark collaborations and friendship.

One aspect of a large scientific congress that distinguishes it from more focused smaller meetings is the possibility to get updated in leading research areas outside one's own immediate interests. This has various benefits. First, it is rather useful for younger researchers who are at a stage where decisions about their own future have to be made. For others, ideas for interdisciplinary work, new research directions and university teaching may arise. Attractive opportunities for exhibitors to present the latest equipment, methods and reagents are also provided at a large meeting.

Dear Participants, we are looking forward to an outstanding range of eminent lecturers during this FEBS 2015 Congress on many fast-moving areas of the molecular life sciences. To complement all that there are a number of special sessions on specific interests, including those planned by FEBS committees on science and society, education and on promoting women in science.

Enjoy!

Prof. Dr. Israel Pecht

Message from GBM

Welcome to the FEBS-GBM 2015 Conference!

Message from the German Society for Biochemistry and Molecular Biology (GBM)

It is my great pleasure to welcome you as the president of the German Society for Biochemistry and Molecular Biology (GBM) here in Berlin, the vibrant capital of Germany. We are highly honored to host this year’s 40th FEBS Congress. This prestigious meeting series played and plays an important role in shaping European science and in bringing scientists, especially young scientists, together.

Science lives from the exchange of ideas, results and also from informal discussions. I am positive that this meeting is held in this spirit, providing a lively atmosphere that fosters exchange.

My special thanks go to Volker Haucke, Thomas Sommer and the whole organizing team in Berlin. They did an excellent job in shaping the program and selecting outstanding speakers, covering many different facets and topics in the molecular life sciences. Special thanks also to the various FEBS committees for support and continued input during the organization of the event.

Enjoy the talks, the discussions and, last but not least, the lively atmosphere of this meeting in Berlin.

Prof. Dr. Johannes Buchner
Message from the Conference Chairs

Welcome to Berlin and the FEBS-GBM 2015 Conference

We wish you a very warm welcome to the joint conference of the European Biochemical Societies (FEBS) and the German Society for Biochemistry and Molecular Biology (GBM) in Berlin 2015 and are happy to introduce you to the scientific program of the meeting.

The opening lecture will be delivered by Nobel laureate Randy Schekman on the “Secretion of large particles and miRNA” and be followed by a podium discussion on “The Future of Scientific Publishing”. Our ten plenary speakers will cover the entire spectrum of molecular life sciences ranging from the development and application of super-resolution microscopy to the growth of entire organs in a petri dish.

The selected themes of our 30 concurrent scientific symposia reflect the excellence of European research and cover six main themes. Attendees will be able to choose from a line-up that includes more than 150 outstanding scientists covering a wide range of topics in molecular life sciences ranging from gene expression and membrane biology to molecular medicine and neuroscience. Several symposia deal with both health and disease situations and provide prospects for future therapeutic applications, e.g. to combat cancer or neurodegenerative diseases. Other sessions delve into the beauty of biological architectures, including chromatin or the organization of membranes and the proteins embedded therein as well as the regulation of biological function by non-coding RNA, lipids, or glycan modifications. Last but not least, we will have symposia on systems biology and the use of experimental and theoretical approaches to rationalize complex biological systems. These symposia are framed by special sessions on Education, Women in Science, Evolution & Molecular Medicine hosted by the FEBS Science & Society Committee, and the rising topic of Data Management and Reproducibility.

The poster sessions, scheduled from Sunday to Wednesday, offer dynamic, vivid and interactive scientific insights that you can extend and discuss with leading experts on the represented sectors. The network of scientific collaborations extends to all German universities and a large number of major research centers. The GBM represents the interests of all who work and research in the dynamic and promising area of molecular biophysics and related research areas in a variety of ways, such as through its journals, research fellows, courses, and congress. As a charitable organization, FEBS promotes, encourages and supports biochemistry, molecular biology, cell biology, molecular biophysics and related research areas in Europe and beyond. As a charitable organization, FEBS promotes, encourages and supports biochemistry, molecular biology, cell biology, molecular biophysics and related research areas in a variety of ways, such as through its journals, research fellows, courses, and congress. There is an emphasis in many programs on scientific exchange and cooperation between scientists working in different countries, and on promotion of the training of early-career scientists.

We wish you a very warm welcome to Berlin and the FEBS-GBM 2015 Conference.

Volker Haucke (Chair)  Thomas Sommer (Vice-Chair)
on behalf of the local organizing committee
App is sponsored by Wiley.

You do not require internet access to operate it. The conference can be downloaded in the app store or exported via e-mail. Daily conference news will keep you up to date.

The conference app will navigate your way around the exhibition and conference center. You will be able to take notes directly on sessions, abstracts, speaker biographies, sponsors and exhibitors. The app will allow you to search the complete scientific program, device and browse or search the complete scientific program, theater, poster, and special sessions. Mobile phones must be switched off while attending sessions.

Program Changes
The organizer reserves the right to make changes if necessary. No full or partial refunds are made to the attendees in the event of cancellations or other changes in the program. Please note that changes will be posted at the registration desk and at the entrance of the session halls. Participants will be informed about the changes.

Registration
You can still register online and directly in Berlin. However, waiting can be eased, if participants register online in advance. Pre-registered participants will receive a barcode which is required on-site in order to print the badge. Therefore, it is essential to have the barcode ready. Self-printing stations are located directly in the entrance hall.

Registration Desk
The registration desk is situated in the entrance hall.

Reimbursement of Travel Costs – For GBM Travel Grant Winner
You will be reimbursed with a cash cheque at the conference. Please note: you have to appear in person and provide your ID for check-in at the congress venue (July 4–9, 2015, Berlin, Germany). You receive the cash cheque at the bursary desk in the entrance hall.

For reimbursement, please attend during the opening hours and provide your congress registration receipt.

Social Program
The Get together will take place on July 4, 2015 from 8:45 PM – 10:00 PM in the industrial exhibition.

The networking evening will take place on July 8, 2015 from 8:00 PM – 11:00 PM at Franz’s Restaurant in the KulturBrauerei (address: Schönhauser Allee 36, 10435 Berlin, Germany. Public transportation: U2, Eberswalder Strasse). In September 2004, the concept of the former DDR youth club experienced a revival and Franz was given a new lease of life. Today, the modern venue is an exciting combination of club, concert stage, snack-bar and lounge – all under one roof.

The area of KulturBrauerei, where Franz is located, is Berlin’s meeting pot of the cultural scene. Imbribly it joins an architectural historic site with the vitality of a modern culture scene. Purchase tickets at the registration desk and enjoy a night with “berlin flair” and great food.

Smoking
Smoking is strictly prohibited in the congress venue by law.

Wardrobe
The wardrobe is situated in the entrance hall.

The opening hours are subject to change.
### Convention Hall A/B

#### MAIN PROGRAM

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Type</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>5:45 PM–7:00 PM</td>
<td><strong>Plenary Lecture</strong></td>
<td>Conference Opening</td>
</tr>
<tr>
<td>5:45 PM–6:00 PM</td>
<td>Welcoming address</td>
<td>Volker Haucke (Berlin, Germany) Israel Pecht (Rehovot, Israel)</td>
</tr>
<tr>
<td>6:00 PM–7:00 PM</td>
<td>Secretion of large particles and miRNAs from mammalian cells</td>
<td>Randy Schekman (Berkeley, United States of America)</td>
</tr>
<tr>
<td>7:00 PM–7:15 PM</td>
<td><strong>Break</strong></td>
<td></td>
</tr>
<tr>
<td>7:15 PM–8:45 PM</td>
<td><strong>Podium Discussion: The Future of Scientific Publishing</strong></td>
<td>Chairs: Johannes Buchner (Munich, Germany)</td>
</tr>
<tr>
<td>8:45 PM–10:00 PM</td>
<td>Welcome Reception Mixer in Exhibition Area</td>
<td></td>
</tr>
</tbody>
</table>

### Main Topics

- Gen EX: Mechanisms of Gene Expression
- Mem Biol: Membranes, Receptors & Bioenergetics
- Struct Biol: Structural Biology and Biophysics
- Sys Biol: Systems Biology, Bioinformatics & Theoretical Biology
- Mol Neu: Molecular Neuroscience
- Chem Biol: From Chemical Biology to Molecular Medicine

---

*www.febs2015.org*
### Probing Cellular Function with Small Molecules (Part I)

**Chairs:** Guilio Superti-Furga (Vienna, Austria), Herbert Waldmann (Dortmund, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 AM</td>
<td>Drug transport and drug action by Guilio Superti-Furga (Vienna, Austria)</td>
</tr>
<tr>
<td>9:00 AM</td>
<td>Visualising biochemical activities with synthetic probes in living cells by Kai Johnsson (Lausanne, Switzerland)</td>
</tr>
<tr>
<td>9:30 AM</td>
<td>Repurposing of stem cell signaling pathways by Petr Bartunek (Prague, Czech Republic)</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>ECM remodeling: a bystander or a partner in a crime by Irit Sagi (Rehovot, Israel)</td>
</tr>
<tr>
<td>10:45 AM</td>
<td>Light controlled protein sequestration in living cells by Richard Wombacher (Heidelberg, Germany)</td>
</tr>
<tr>
<td>11:00 AM</td>
<td>Live-cell RNA imaging using genetically encoded fluorophore and quencher binding aptamers by Murat Sunbul (Heidelberg, Germany)</td>
</tr>
</tbody>
</table>

### Chromatin Structure and Epigenetic Modifications and Maintenance of the Genome (Part I)

**Chairs:** Ann Ehrenhofer-Murray (Berlin, Germany), Carl Wu (Ashburn, United States of America)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 AM</td>
<td>Chromatin dynamics of histone variant H2A.Z at yeast gene promoters by Carl Wu (Ashburn, United States of America)</td>
</tr>
<tr>
<td>9:00 AM</td>
<td>Regulation of centromeric function by posttranslational modifications on the centromeric histone variant CENP-A Cse4 in yeast by Ann Ehrenhofer-Murray (Berlin, Germany)</td>
</tr>
<tr>
<td>9:30 AM</td>
<td>Epigenetic control of translation and ageing by Jane Medor (Cambridge, United Kingdom)</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>Coordination of gene expression and cell cycle progression in response to stress by Francesc Posas Garriga (Barcelona, Spain)</td>
</tr>
<tr>
<td>10:45 AM</td>
<td>The effect of histone modifications and DNA superhelicity on nucleosome stability by Gábor Szabó (Debrecen, Hungary)</td>
</tr>
</tbody>
</table>

---

**Convention Hall A/B**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>9:00 AM</td>
<td>Speed Talks 2: Membranes, Receptors &amp; Bioenergetics + Structural Biology and Biophysics</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>Speed Talks 3: Mechanisms of Gene Expression + Systems Biology, Biokinetics &amp; Theoretical Biology</td>
</tr>
<tr>
<td>11:00 AM</td>
<td>Speed Talks 4: From Chemical Biology to Molecular Medicine + Molecular Neuroscience</td>
</tr>
<tr>
<td>12:00 PM</td>
<td>Lunch Break</td>
</tr>
<tr>
<td>1:00 PM</td>
<td>Speed Talks 1: in Foyer Convention Center</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>Speed Talks 5: Posters in Foyer Convention Center</td>
</tr>
<tr>
<td>3:00 PM</td>
<td>Speed Talks 6: Poster Session 1</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>Speed Talks 7: Poster Session 2</td>
</tr>
<tr>
<td>5:00 PM</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>6:00 PM</td>
<td>GBM PhD Award &amp; Karl Lohmann Award</td>
</tr>
<tr>
<td>7:00 PM</td>
<td>GBM Turkey Lecture &amp; Medal</td>
</tr>
<tr>
<td>7:00 PM</td>
<td>GBM Turkey Lecture</td>
</tr>
</tbody>
</table>

---

**ECC Room 1**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 AM</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>9:00 AM</td>
<td>Speed Talks 2: Membranes, Receptors &amp; Bioenergetics + Structural Biology and Biophysics</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>Speed Talks 3: Mechanisms of Gene Expression + Systems Biology, Biokinetics &amp; Theoretical Biology</td>
</tr>
<tr>
<td>11:00 AM</td>
<td>Speed Talks 4: From Chemical Biology to Molecular Medicine + Molecular Neuroscience</td>
</tr>
<tr>
<td>12:00 PM</td>
<td>Speed Talks 5: Poster Session 2</td>
</tr>
<tr>
<td>1:00 PM</td>
<td>Speed Talks 1: in Foyer Convention Center</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>Speed Talks 6: Poster Session 1</td>
</tr>
<tr>
<td>3:00 PM</td>
<td>Speed Talks 7: Poster Session 2</td>
</tr>
</tbody>
</table>
### ECC Room 2
#### Sys Biol S2-I SYMPOSIUM

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>8:30 AM–11:00 AM</strong></td>
<td><strong>Molecular Clocks (Part I)</strong></td>
</tr>
<tr>
<td></td>
<td>Chairs: Felix Naef (Lausanne, Switzerland) Michael Brunner (Heidelberg, Germany)</td>
</tr>
<tr>
<td>8:30 AM–9:00 AM</td>
<td>- Posttranscriptional mechanisms regulating circadian rhythms in mammals</td>
</tr>
<tr>
<td></td>
<td>- Control of spindle checkpoint signaling at the metaphase to anaphase transition</td>
</tr>
<tr>
<td>9:00 AM–9:30 AM</td>
<td>- Effects of reciprocal interactions between various dietary fats and circadian phases on postprandial hyperlipidemia in rats</td>
</tr>
<tr>
<td>9:30 AM–9:45 AM</td>
<td>- Understanding phototrophic growth: Modeling temporal resource allocation and diurnal dynamics in cyanobacterial metabolism</td>
</tr>
<tr>
<td>9:45 AM–10:00 AM</td>
<td>- Structural insights into circadian oscillators</td>
</tr>
<tr>
<td>10:00 AM–10:30 AM</td>
<td>- Circadian architecture in the brain: using neural plasticity to control clock properties</td>
</tr>
<tr>
<td>10:30 AM–11:00 AM</td>
<td>- Circadian architecture in the brain: using neural plasticity to control clock properties</td>
</tr>
</tbody>
</table>

### ECC Room 3
#### Mol Neu S1-I SYMPOSIUM

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>8:30 AM–11:00 AM</strong></td>
<td><strong>Neuronal Ion Channels and their Role in Disease (Part I)</strong></td>
</tr>
<tr>
<td></td>
<td>Chairs: Pierre-Jean Corringer (Paris, France) Andrew Plested (Berlin, Germany) Carmen Wöllmann (Würzburg, Germany)</td>
</tr>
<tr>
<td>8:30 AM–9:00 AM</td>
<td>- Structure of the transmembrane domain of the human glycine receptor using prokaryotic GLIC as a scaffold</td>
</tr>
<tr>
<td>9:00 AM–9:30 AM</td>
<td>- Glycinergic disinhibition in neuromotor disorders</td>
</tr>
<tr>
<td>9:30 AM–9:45 AM</td>
<td>- Towards the physiological role of the CI-H+ exchanger CIC-3 in the brain</td>
</tr>
<tr>
<td>9:45 AM–10:00 AM</td>
<td>- The attenuated Proserin-1 endoproteolysis causes a store-operated calcium channels hyperactivity in neurons of Alzheimer’s disease models</td>
</tr>
<tr>
<td>10:00 AM–10:30 AM</td>
<td>- Structure of the serotonin 5-HT3 receptor</td>
</tr>
<tr>
<td>10:30 AM–11:00 AM</td>
<td>- Activation mechanisms of ionotropic glutamate receptors</td>
</tr>
</tbody>
</table>

### Estrel Hall A
#### Mem Biol S1-I SYMPOSIUM

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>8:30 AM–11:00 AM</strong></td>
<td><strong>Organelle Dynamics and Communication (Part I)</strong></td>
</tr>
<tr>
<td></td>
<td>Chairs: Maya Schuldiner (Rehovot, Israel) Peter Rehling (Göttingen, Germany)</td>
</tr>
<tr>
<td>8:30 AM–9:00 AM</td>
<td>- Endosomal control of tetraspanin-based functional hubs</td>
</tr>
<tr>
<td>9:00 AM–9:30 AM</td>
<td>- Characterization of the human PEX14-microtubule interaction</td>
</tr>
<tr>
<td>9:30 AM–10:00 AM</td>
<td>- Role of Rab7 GTPases Ypt7 in vacuole membrane organization and contact site formation</td>
</tr>
<tr>
<td>10:00 AM–10:30 AM</td>
<td>- Peroxisome biogenesis in yeast</td>
</tr>
<tr>
<td>10:30 AM–11:00 AM</td>
<td>- Molecular mechanisms of mitochondrial behavior</td>
</tr>
</tbody>
</table>

### Estrel Hall B
#### Struct Biol S1-I SYMPOSIUM

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>8:30 AM–11:00 AM</strong></td>
<td><strong>Mechanisms of Membrane Transport (Part I)</strong></td>
</tr>
<tr>
<td></td>
<td>Chairs: Raimund Dutler (Zürich, Switzerland) Irmgard Sinning (Heidelberg, Germany)</td>
</tr>
<tr>
<td>8:30 AM–9:00 AM</td>
<td>- Localization-dependent regulation of membrane transporters and channels</td>
</tr>
<tr>
<td>9:00 AM–9:30 AM</td>
<td>- Structure of a prokaryotic Prestin homolog reveals the architecture of the SLC26 family</td>
</tr>
<tr>
<td>9:30 AM–9:45 AM</td>
<td>- Structure-function analysis of the different selectivity preferences of pyrimidine and/or purine transporters in the Nucleobase: Cation Symporter 2 (NCST2) family</td>
</tr>
<tr>
<td>9:45 AM–10:00 AM</td>
<td>- A new channel for the peroxisomal import of PTS2 proteins</td>
</tr>
<tr>
<td>10:00 AM–10:30 AM</td>
<td>- The structural basis for calcium activation in the TMEM16 family of lipid scramblases and ion channels</td>
</tr>
</tbody>
</table>

### Estrel Hall C
#### Struct Biol S1-I SYMPOSIUM

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>11:00 AM–11:30 AM</strong></td>
<td><strong>COFFEE BREAK</strong></td>
</tr>
</tbody>
</table>
### ECC Room 2: SPEED TALKS (1:30 PM–3:00 PM)
#### Mechanisms of Gene Expression + Systems Biology, Bioinformatics & Theoretical Biology

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Presenter, Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30 PM–1:34 PM</td>
<td>P02-005-SP</td>
<td>Investigation of the G4 interactome using human protein microarrays</td>
<td>Slava Severov, Moscow, Russian Federation</td>
</tr>
<tr>
<td>1:34 PM–1:38 PM</td>
<td>P02-006-SP</td>
<td>Analysis of XCI mosaicism in the liver from a patient with OTC deficiency</td>
<td>Dita Musalkova, Prague, Czech Republic</td>
</tr>
<tr>
<td>1:38 PM–1:42 PM</td>
<td>P02-007-SP</td>
<td>DNA structural transitions upon dehydration of DNA solutions revealed by FTIR spectroscopy</td>
<td>Sofia Paston, St. Petersburg, Russian Federation</td>
</tr>
<tr>
<td>1:42 PM–1:46 PM</td>
<td>P02-008-SP</td>
<td>PRE-FKCI32B: a Human PRE with a difference?</td>
<td>Jayant Maini, Dehli, India</td>
</tr>
<tr>
<td>1:46 PM–1:50 PM</td>
<td>P27-005-SP</td>
<td>Analysis and identification of circadian-regulated metabolic pathways in tumourigenesis</td>
<td>Luise Furth, Berlin, Germany</td>
</tr>
<tr>
<td>1:50 PM–1:54 PM</td>
<td>P27-006-SP</td>
<td>Transcriptomics-based approach to determine subchronic repeated-dose toxicity of M food in the small intestine of rats and associated in vitro models</td>
<td>Jutta Sharbatli, Berlin, Germany</td>
</tr>
<tr>
<td>1:54 PM–1:58 PM</td>
<td>P27-007-SP</td>
<td>Circadian regulation of the immune system: a role in tumourigenesis</td>
<td>Monica Abreu, Berlin, Germany</td>
</tr>
<tr>
<td>1:58 PM–2:02 PM</td>
<td>P27-008-SP</td>
<td>SJL mice immunized with Epstein-Barr virus antigen LMP1 develop autoantibodies towards myelin basic protein</td>
<td>Yakov Lomakin, Moscow, Russian Federation</td>
</tr>
</tbody>
</table>

### ECC Room 3: SPEED TALKS (1:30 PM–3:00 PM)
#### From Chemical Biology to Molecular Medicine + Molecular Neuroscience

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Presenter, Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30 PM–1:34 PM</td>
<td>P20-005-SP</td>
<td>Scorpion toxin fused with fluorescent protein is a novel probe to study potassium channels</td>
<td>Alexey Kuzmenkov, Moscow, Russian Federation</td>
</tr>
<tr>
<td>1:34 PM–1:38 PM</td>
<td>P20-006-SP</td>
<td>KcsA-Kv1.2 hybrid channel embedded in E. coli cell membrane: design, properties, applications</td>
<td>Olksana Nekrasova, Moscow, Russian Federation</td>
</tr>
<tr>
<td>1:38 PM–1:42 PM</td>
<td>P14-005-SP</td>
<td>Tetraphosphate cap analogues modified in polyphosphate bridge are inhibitors of Dcp1/2 decapping complex</td>
<td>Marcin Ziemniak, Warsaw, Poland</td>
</tr>
<tr>
<td>1:42 PM–1:46 PM</td>
<td>P14-006-SP</td>
<td>A genome-wide RNAi screen to dissect retrograde membrane traffic to the Golgi complex</td>
<td>Martina Bewiga, Dublin, Ireland</td>
</tr>
<tr>
<td>1:46 PM–1:50 PM</td>
<td>P14-007-SP</td>
<td>How oncogenic mutations affect qualitative and quantitative wiring of signalling</td>
<td>Bertram Klingler, Berlin, Germany</td>
</tr>
<tr>
<td>1:50 PM–1:54 PM</td>
<td>P14-008-SP</td>
<td>A survey of the inhibition of Arf GTPases and their GEFs by small molecules</td>
<td>Sarah Benabdi, Cachan, France</td>
</tr>
</tbody>
</table>

### Foyer: POSTER SESSION (1:30 PM–3:00 PM)
#### Poster Session 1
See page 55
### Sunday, July 5, 2015

#### SU

**Convention Hall A/B**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00 PM–5:00 PM</td>
<td><strong>SYMPOSIUM</strong></td>
</tr>
<tr>
<td><strong>Probing Cellular Function with Small Molecules (Part II)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Chair:</strong> Guilio Superti-Furga (Vienna, Austria) Herbert Waldmann (Dortmund, Germany)</td>
<td></td>
</tr>
<tr>
<td>3:00 PM–3:30 PM</td>
<td>□ Hunting the Targets of Biologically Relevant Small Molecules Herbert Waldmann (Dortmund, Germany)</td>
</tr>
<tr>
<td>3:30 PM–4:00 PM</td>
<td>□ A chemical approach to cell division Ulrike Eggert (London, United Kingdom)</td>
</tr>
<tr>
<td>4:00 PM–4:30 PM</td>
<td>□ Probing chemokine functions with neutraligands Jean-Luc Gali (Strasbourg, France)</td>
</tr>
<tr>
<td>4:30 PM–4:45 PM</td>
<td>□ High Content Screening for inhibitors of ERK1/2 nuclear translocation Alexander Plotnikov (Rehovot, Israel)</td>
</tr>
<tr>
<td>4:45 PM–5:00 PM</td>
<td>□ Enzymatic phosphocholination as a tool for protein labeling Aymelt Itzen (Garching, Germany)</td>
</tr>
</tbody>
</table>

---

**ECC Room 1**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00 PM–5:00 PM</td>
<td><strong>SYMPOSIUM</strong></td>
</tr>
<tr>
<td><strong>Chromatin Structure and Epigenetic Modifications and Maintenance of the Genome (Part II)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Chair:</strong> Ann Ehrenhofer-Murray (Berlin, Germany)</td>
<td></td>
</tr>
<tr>
<td>3:00 PM–3:30 PM</td>
<td>□ Epigenetic transmission: establishment and inheritance of specialised chromatin Robin Altshule (Edinburgh, United Kingdom)</td>
</tr>
<tr>
<td>3:30 PM–4:00 PM</td>
<td>□ RNA:DNA hybrids as modulators of chromatin structure and genome instability Andres Alquezola (Seville, Spain)</td>
</tr>
<tr>
<td>4:00 PM–4:30 PM</td>
<td>□ The Architecture of Tetrahymena Telomerase Holoenzyme Jul Feigon (Los Angeles, United States of America)</td>
</tr>
<tr>
<td>4:30 PM–4:45 PM</td>
<td>□ The sequence requirements for base J in DNA Piet Borst (Amsterdam, Netherlands)</td>
</tr>
<tr>
<td>4:45 PM–5:00 PM</td>
<td>□ Signal regulated localisation of a mutagenic protein complex at the Igh locus Thomas Grunström (Umeå, Sweden)</td>
</tr>
</tbody>
</table>

---

**ECC Room 2**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00 PM–5:00 PM</td>
<td><strong>SYMPOSIUM</strong></td>
</tr>
<tr>
<td><strong>Molecular Clocks (Part II)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Chair:</strong> Felix Naef (Lausanne, Switzerland) Michael Brunner (Heidelberg, Germany)</td>
<td></td>
</tr>
<tr>
<td>3:00 PM–3:30 PM</td>
<td>□ Transcriptional regulatory logic of the slumal cycle Felix Naef (Lausanne, Switzerland)</td>
</tr>
<tr>
<td>3:30 PM–4:00 PM</td>
<td>□ Transcriptional refractoriness is dependent on core promoter architecture Michael Brunner (Heidelberg, Germany)</td>
</tr>
<tr>
<td>4:00 PM–4:15 PM</td>
<td>□ Feedback loops of the mammalian circadian clock constitute repressilator Hanspeter Herr (Berlin, Germany)</td>
</tr>
<tr>
<td>4:15 PM–4:30 PM</td>
<td>□ Deregulation of circadian time and its correlation with tumour progression Angela Reisgino (Berlin, Germany)</td>
</tr>
<tr>
<td>4:30 PM–5:00 PM</td>
<td>□ Wave phenomena in embryonic patterning Andrew Oates (London, United Kingdom)</td>
</tr>
</tbody>
</table>

---

#### ECC Room 3

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00 PM–5:00 PM</td>
<td><strong>SYMPOSIUM</strong></td>
</tr>
<tr>
<td><strong>Neuronal Ion Channels and their Role in Disease (Part II)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Chair:</strong> Pierre-Jean Corringer (Paris, France) Andrew Plested (Berlin, Germany) Carmen Vilman (Würzburg, Germany)</td>
<td></td>
</tr>
<tr>
<td>3:00 PM–3:30 PM</td>
<td>□ Inhibitory synapse stability and plasticity in the light of super-resolution Antoine Tifler (Paris, France)</td>
</tr>
<tr>
<td>3:30 PM–4:00 PM</td>
<td>□ Chloride channel dysfunction in leukoencephalopathies Raul Estevez (Barcelona, Spain)</td>
</tr>
<tr>
<td>4:00 PM–4:15 PM</td>
<td>□ Novel compounds acting on nicotinic acetylcholine receptors: from low molecular ones to peptides and proteins Victor Tettin (Moscow, Russian Federation)</td>
</tr>
<tr>
<td>4:15 PM–4:30 PM</td>
<td>□ The large intracellular loop of the human glycine receptor α1: It’s not all about the size Georg Langhoffer (Würzburg, Germany)</td>
</tr>
<tr>
<td>4:30 PM–5:00 PM</td>
<td>□ Gene Therapy Strategies for using Ion Channels to treat Disease Stephanie Schorge (London, United Kingdom)</td>
</tr>
</tbody>
</table>

---

#### ECC Room 4

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00 PM–5:00 PM</td>
<td><strong>SYMPOSIUM</strong></td>
</tr>
<tr>
<td><strong>Organelle Dynamics and Communication (Part II)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Chair:</strong> Maya Schuldiner (Rehovot, Israel) Peter Reichling (Göttingen, Germany)</td>
<td></td>
</tr>
<tr>
<td>3:00 PM–3:30 PM</td>
<td>□ Proteomic analysis of the yeast mitochondrial ribosome Michael Weigel (Kaiserslautern, Germany)</td>
</tr>
<tr>
<td>3:30 PM–4:00 PM</td>
<td>□ Coupling to partner proteins modulates functional specificity of Mdm10 in mitochondrial biogenesis Thomas Becker (Freiburg, Germany)</td>
</tr>
<tr>
<td>4:00 PM–4:30 PM</td>
<td>□ Mitochondrial protein biogenesis Peter Reichling (Göttingen, Germany)</td>
</tr>
<tr>
<td>4:30 PM–5:00 PM</td>
<td>□ Structure of a complete, active mitochondrial ATP synthase dimer by cryo-EM Werner Kühlbrandt (Frankfurt am Main, Germany)</td>
</tr>
<tr>
<td>3:00 PM–5:00 PM</td>
<td>□ Novel insights into COP1-mediated retrieval of luminal ER-resident proteins Blanche Schwappach (Göttingen, Germany)</td>
</tr>
</tbody>
</table>
Sunday, July 5, 2015

**Estrel Hall C**

### Mechanisms of Membrane Transport (Part II)

**Chair:** Raimund Dutler (Zurich, Switzerland)
Imgard Sinning (Heidelberg, Germany)

- 3:00 PM–3:30 PM
  - Forces acting on nascent polypeptide chains during co-translational protein translocation and folding
  - Nils Gunnar von Heijne (Stockholm, Sweden)

- 3:30 PM–4:00 PM
  - How to couple translation with membrane translocation: cryo-EM studies of functional complexes
  - Roland Beckmann (Munich, Germany)

- 4:00 PM–4:15 PM
  - Structural characterization of the ABC-transporter BmrA in nanodiscs environment
  - Yann-Huon de Kermadec (Grenoble, France)

- 4:15 PM–4:30 PM
  - Distinct conformational spectrum of homologous multidrug ABC transporters
  - Anne Miseler (Karlsruhe, Germany)

- 4:30 PM–5:00 PM
  - Mechanisms of membrane protein biogenesis: the role of the SRP RNA
  - Irmgard Sinning (Heidelberg, Germany)

### 5:00 PM–5:30 PM

**COFFEE BREAK**

### Convention Hall A/B

#### GBM PhD Award & Karl Lohmann Award

**Chair:** Johannes Buchner (Munich, Germany)

- 5:30 PM–5:35 PM
  - Laudation
  - Roland Lill (Marburg, Germany)

- 5:35 PM–5:55 PM
  - GBM PhD Award
  - RNA polymerase I structure and transcription regulation
  - Christoph Engel (Göttingen, Germany)

- 5:55 PM–6:30 PM
  - Karl Lohmann Award
  - Mechanistic Characterization of 5’ and 3’ UTR RNA Elements that Regulate mRNA Decay and Translation
  - Kathrin Leppek (Stanford, United States of America)

### Convention Hall A/B

#### PLENARY LECTURE

**6:30 PM–7:30 PM**

**Otto Warburg Lecture & Medal**

**Chair:** Johannes Buchner (Munich, Germany)

- 6:30 PM–6:40 PM
  - Laudation and Award Ceremony
  - Johannes Buchner (Munich, Germany)

- 6:40 PM–7:30 PM
  - Mitochondrial machineries for import and assembly of proteins
  - Nikolaus Pfanner (Freiburg, Germany)

---

Monday, July 6, 2015

**Estrel Hall C**

### Symposium on RNA-Based Disease Mechanisms and Therapy (Part II)

**Chair:** Raimund Dutler (Zurich, Switzerland)
Imgard Sinning (Heidelberg, Germany)

- 9:30 AM–10:00 AM
  - Poster Session 1

### 10:00 AM–11:00 AM

#### Coffee Break

### 11:00 AM–12:00 PM

#### Plenary Lecture

**Fritz Lipmann Lecture**

- 12:00 PM–12:30 PM
  - Women in Science Award

### 12:30 PM–1:30 PM

#### Lunch Break/Luncheon of Young Scientists

### 1:30 PM–3:00 PM

#### Speed Talks

- Membranes, Receptors & Bioenergetics + Structural Biology and Biophysics

### 3:00 PM–3:30 PM

#### Coffee Break

### 3:30 PM–4:00 PM

#### Plenary Lecture

**FEBS Theodor Bücher Lecture**

### 4:00 PM–5:00 PM

#### Poster Session 1

**In Front Convention Center**

---

**Scientific Program**

**Monday, July 6, 2015**

**Estrel Hall C**

### 8:30 AM–11:00 AM

- Symposium on RNA-Based Disease Mechanisms and Therapy (Part II)

### 11:00 AM–12:00 PM

- Poster Session 1

### 12:30 PM–1:30 PM

- Lunch Break/Luncheon of Young Scientists

### 1:30 PM–3:00 PM

- Speed Talks

### 3:00 PM–3:30 PM

- Coffee Break
<table>
<thead>
<tr>
<th>MAIN PROGRAM</th>
<th>MAIN PROGRAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Convention Hall A/B</td>
<td>9:45 AM–10:00 AM</td>
</tr>
<tr>
<td>Chem Biol S4-I</td>
<td>Degeneration and Ageing of the Nervous System (Part I)</td>
</tr>
<tr>
<td>SYMPOSIUM</td>
<td>Chairs: Bart De Strooper (Leuven, Belgium)</td>
</tr>
<tr>
<td>8:30 AM–11:00 AM</td>
<td>Christian Haass (Munich, Germany)</td>
</tr>
<tr>
<td>RNA-Based Disease Mechanism and Therapy (Part I)</td>
<td>8:30 AM–9:00 AM</td>
</tr>
<tr>
<td>Chair: Gideon Dreyfuss (Philadelphia, United States of America)</td>
<td></td>
</tr>
<tr>
<td>Albert Jeltsch (Stuttgart, Germany)</td>
<td>8:30 AM–9:00 AM</td>
</tr>
<tr>
<td>8:30 AM–9:00 AM</td>
<td>□ eta-Secretase processing of APP inhibits hippocampal neuronal activity</td>
</tr>
<tr>
<td>□ enRNPs pointing to a new function of the genome?</td>
<td>Christian Haass (Munich, Germany)</td>
</tr>
<tr>
<td>Matthias Hentze (Heidelberg, Germany)</td>
<td>9:00 AM–9:30 AM</td>
</tr>
<tr>
<td>9:00 AM–9:30 AM</td>
<td>□ Regulation of GPR3 function in Alzheimer’s Disease</td>
</tr>
<tr>
<td>□ A toolbox for manipulating the mRNA pathway</td>
<td>Christian Haass (Munich, Germany)</td>
</tr>
<tr>
<td>Petr Svoboda (Prague, Czech Republic)</td>
<td>9:30 AM–9:45 AM</td>
</tr>
<tr>
<td>9:45 AM–10:00 AM</td>
<td>□ Determination of the size of the primary and secondary folding nuclei of</td>
</tr>
<tr>
<td>□ Dnmt2-mediated resistance to nitrosative stress in the human parasite</td>
<td>Christian Haass (Munich, Germany)</td>
</tr>
<tr>
<td>Entamoeba histolytica</td>
<td>9:45 AM–10:00 AM</td>
</tr>
<tr>
<td>Sergei Arkel (Rehovot, Israel)</td>
<td>□ Abeta40 and Abeta42 protofibrils from the concentration dependence of</td>
</tr>
<tr>
<td>9:45 AM–10:00 AM</td>
<td>the rate and the lag-time of their formation</td>
</tr>
<tr>
<td>□ mRNAs contribute to deregulated levels of TGAS and COL5A1 in renal</td>
<td>Oxana Galzitskaya (Pushchino, Russian Federation)</td>
</tr>
<tr>
<td>cancer, possibly influencing cancerous adhesion.</td>
<td>9:45 AM–10:00 AM</td>
</tr>
<tr>
<td>Katarzyna Rodzik (Warsaw, Poland)</td>
<td>□ Loss of neuronal AP-2 compromises neurotrophin signalling and impairs</td>
</tr>
<tr>
<td>10:00 AM–10:30 AM</td>
<td>dendroptogenesis</td>
</tr>
<tr>
<td>□ mRNA Metabolism and Neurodevelopmental Diseases</td>
<td>Natalia Kononenko (Berlin, Germany)</td>
</tr>
<tr>
<td>Utz Fischer (Würzburg, Germany)</td>
<td>10:00 AM–10:30 AM</td>
</tr>
<tr>
<td>10:30 AM–11:00 AM</td>
<td>□ Microtubule-associated protein Tau: Toxicity and rescue in animal models</td>
</tr>
<tr>
<td>□ Role of RNA N7-methylcytosine methylation in protein biosynthesis and disease</td>
<td>Eva-Maria Mandelkow (Bonn, Germany)</td>
</tr>
<tr>
<td>Albert Jeltsch (Stuttgart, Germany)</td>
<td>10:30 AM–11:00 AM</td>
</tr>
<tr>
<td>ECC Room 1</td>
<td>□ Toxicity mechanisms in C9orf72-mediated neurodegeneration</td>
</tr>
<tr>
<td>Gen Ex S3-I</td>
<td>Asha Aizacs (London, United Kingdom)</td>
</tr>
<tr>
<td>SYMPOSIUM</td>
<td>10:30 AM–11:00 AM</td>
</tr>
<tr>
<td>8:30 AM–11:00 AM</td>
<td>Estrel Hall A</td>
</tr>
<tr>
<td>Translational Control and Protein Turnover (Part I)</td>
<td>Mem Biol S2-I</td>
</tr>
<tr>
<td>Chair: David Ron (Cambridge, United Kingdom)</td>
<td>SYMPOSIUM</td>
</tr>
<tr>
<td>8:30 AM–9:00 AM</td>
<td>8:30 AM–11:00 AM</td>
</tr>
<tr>
<td>□ Structural views on translation</td>
<td>Autophagy and Degradation (Part I)</td>
</tr>
<tr>
<td>Nanad Man (Zürich, Switzerland)</td>
<td>Chairs: David C. Rubinsztein (Cambridge, United Kingdom)</td>
</tr>
<tr>
<td>9:00 AM–9:30 AM</td>
<td>Ivan Cik (Frankfurt am Main, Germany)</td>
</tr>
<tr>
<td>□ Mechanisms for detecting and degrading mislocalized proteins</td>
<td>□ Non-canonical Autophagy</td>
</tr>
<tr>
<td>Ramanujan Hegde (Cambridge, United Kingdom)</td>
<td>David C. Rubinsztein (Cambridge, United Kingdom)</td>
</tr>
<tr>
<td>9:30 AM–9:45 AM</td>
<td>□ Selective autophagy in the cellular response to stress</td>
</tr>
<tr>
<td>□ Functional characteristics of a translational silencing element</td>
<td>Ana Maria Cuervo (New York, United States of America)</td>
</tr>
<tr>
<td>in the mRNA of MyB</td>
<td>David C. Rubinsztein (Cambridge, United Kingdom)</td>
</tr>
<tr>
<td>Gesine Behrens (Hannover, Germany)</td>
<td>9:00 AM–9:30 AM</td>
</tr>
<tr>
<td>9:45 AM–10:00 AM</td>
<td>□ Function of flotillins in endosomal sorting of cargo proteins</td>
</tr>
<tr>
<td>□ A short internal ORF in the leaf necrosis associated factor gene encodes</td>
<td>Riva Tidman (Gießen, Germany)</td>
</tr>
<tr>
<td>a novel peptide controlling maternal mRNA accumulation</td>
<td>9:30 AM–9:45 AM</td>
</tr>
<tr>
<td>Ekaterina Sheshukova (Moscow, Russian Federation)</td>
<td>□ CUL3-KBTBD6/KBTBD7 ubiquitin E3 ligase cooperates with ubiquitin-like</td>
</tr>
<tr>
<td>10:00 AM–10:30 AM</td>
<td>GABARAP proteins to spatially restrict TIAM1-RAC1 signalling</td>
</tr>
<tr>
<td>□ Control of protein synthesis by the integrated stress response</td>
<td>Christian Behrends (Frankfurt am Main, Germany)</td>
</tr>
<tr>
<td>David Ron (Cambridge, United Kingdom)</td>
<td>9:45 AM–10:00 AM</td>
</tr>
<tr>
<td>10:30 AM–11:00 AM</td>
<td>□ Relationship between fatty acid synthesis, lipid droplets and autophagy</td>
</tr>
<tr>
<td>□ PKR-dependent translational arrest versus type-I Interferon production</td>
<td>Iyun Blazer (Rehovot, Israel)</td>
</tr>
<tr>
<td>Philippe Pierre (Marseille, France)</td>
<td>10:00 AM–10:30 AM</td>
</tr>
<tr>
<td>ECC Room 2</td>
<td>□ Molecular mechanisms and physiological relevance of autophagosome-</td>
</tr>
<tr>
<td>Sys Biol S3-I</td>
<td>lysosome fusion in Drosophila</td>
</tr>
<tr>
<td>SYMPOSIUM</td>
<td>Gabor Juhasz (Budapest, Hungary)</td>
</tr>
<tr>
<td>8:30 AM–11:00 AM</td>
<td>□ CUL3-KBTBD6/KBTBD7 ubiquitin E3 ligase cooperates with ubiquitin-like</td>
</tr>
<tr>
<td>Comprehensive Models of Metabolism and Signaling (Part I)</td>
<td>GABARAP proteins to spatially restrict TIAM1-RAC1 signalling</td>
</tr>
<tr>
<td>Chair: Walter Kolch (Dublin, Ireland)</td>
<td>Christian Behrends (Frankfurt am Main, Germany)</td>
</tr>
<tr>
<td>8:30 AM–9:00 AM</td>
<td>10:00 AM–10:30 AM</td>
</tr>
<tr>
<td>□ Integrated regulation of yeast cell cycle and growth</td>
<td>□ Relationship between fatty acid synthesis, lipid droplets and autophagy</td>
</tr>
<tr>
<td>Eduard Kipp (Berlin, Germany)</td>
<td>Iyun Blazer (Rehovot, Israel)</td>
</tr>
<tr>
<td>9:00 AM–9:30 AM</td>
<td>□ Molecular mechanisms and physiological relevance of autophagosome-</td>
</tr>
<tr>
<td>□ A Systems Medicine Approach to Anemia Treatment in Lung Cancer</td>
<td>lysosome fusion in Drosophila</td>
</tr>
<tr>
<td>Ursula Klingmüller (Heidelberg, Germany)</td>
<td>Gabor Juhasz (Budapest, Hungary)</td>
</tr>
<tr>
<td>9:30 AM–9:45 AM</td>
<td>□ CUL3-KBTBD6/KBTBD7 ubiquitin E3 ligase cooperates with ubiquitin-like</td>
</tr>
<tr>
<td>□ A switch rewired: exploring the impact of natural and aberrant structure</td>
<td>GABARAP proteins to spatially restrict TIAM1-RAC1 signalling</td>
</tr>
<tr>
<td>alterations in Ras GTPTases-mediated signaling networks through structural</td>
<td>Christian Behrends (Frankfurt am Main, Germany)</td>
</tr>
<tr>
<td>bioinformatics</td>
<td>10:00 AM–10:30 AM</td>
</tr>
<tr>
<td>Francesco Raimondi (Heidelberg, Germany)</td>
<td>□ Relationship between fatty acid synthesis, lipid droplets and autophagy</td>
</tr>
<tr>
<td>10:00 AM–10:30 AM</td>
<td>Iyun Blazer (Rehovot, Israel)</td>
</tr>
<tr>
<td>□ Determination of the size of the primary and secondary folding nuclei</td>
<td>□ Molecular mechanisms and physiological relevance of autophagosome-</td>
</tr>
<tr>
<td>of Abeta40 and Abeta42 protofibrils from the concentration dependence of</td>
<td>lysosome fusion in Drosophila</td>
</tr>
<tr>
<td>the rate and the lag-time of their formation</td>
<td>Gabor Juhasz (Budapest, Hungary)</td>
</tr>
</tbody>
</table>
Scientific Program

 Monday, July 6, 2015

<table>
<thead>
<tr>
<th>SYMPOSIUM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>8:30 AM–11:00 AM</strong></td>
</tr>
<tr>
<td><strong>PROTEIN-MEDIATED MEMBRANE DEFORMATION AND Penetration (Part I)</strong></td>
</tr>
<tr>
<td>Chair: Thomas Wollert (Marburg, Germany)</td>
</tr>
<tr>
<td>□ Structure and Function of Dynamin Superfamily Proteins (Isabel Bäurle, Potsdam, Germany)</td>
</tr>
<tr>
<td>□ Release of locked ESCRT-I ‘spiral drives’ membrane deformation (Stefan Raunser, Dortmund, Germany)</td>
</tr>
<tr>
<td>□ The structure of the COP-I coated vesicles by cryo-electron tomography and subtomogram averaging (Robert Glaeser, Heidelberg, Germany)</td>
</tr>
<tr>
<td>□ Structural study of nervous wreck autoinhibition (Megumi Ota, Tokyo, Japan)</td>
</tr>
<tr>
<td>□ Mechanisms of exocytosis in Gram-negative Bacterial Pathogens (Gabriel Waksman, London, UK)</td>
</tr>
<tr>
<td>□ How to kill a mocking bug – Structural insights into Tox melting complex action (Boris Khalfin, Beer-Sheva, Israel)</td>
</tr>
</tbody>
</table>

| **11:00 AM–11:30 AM** |
| **FEBS | EMBO Women in Science Award** |
| Chairs: Isabel Bäurle (Potsdam, Germany) 
Imgard Sinning (Heidelberg, Germany) 
Cecilia M. Arraiano (Oeiras, Portugal) 
Gerd H. Wallon (Heidelberg, Germany) |
| □ Laudation (Gerlind Wallon, Heidelberg, Germany) |
| □ Irmgard Sinning (Heidelberg, Germany) |
| □ How to kill a mocking bug – Structural insights into Tox melting complex action (Boris Khalfin, Beer-Sheva, Israel) |

| **11:30 AM–12:30 PM** |
| **FEBS | EMBO Women in Science Award** |
| Chairs: Isabel Bäurle (Potsdam, Germany) 
Imgard Sinning (Heidelberg, Germany) 
Cecilia M. Arraiano (Oeiras, Portugal) 
Gerd H. Wallon (Heidelberg, Germany) |
| □ Laudation (Isabel Bäurle, Potsdam, Germany) |
| □ Epigenetic switching in seasonal timing (Caroline Dean, Norwich, UK) |

| **12:30 PM–1:30 PM** |
| **LUNCH BREAK/WOMEN IN SCIENCE LUNCHEON** |

<table>
<thead>
<tr>
<th><strong>SCIENTIFIC PROGRAM</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1:54 PM–2:06 PM</strong></td>
</tr>
<tr>
<td>□ The role of the MIM complex in the biogenesis of mitochondrial outer membrane proteins (Christoph Mathiesen, Freiburg, Germany)</td>
</tr>
<tr>
<td>□ Structural and physicochemical studies of the fusion mechanisms and assembly of Hepatitis C virus (Antonio Casalino, Rio de Janeiro, Brazil)</td>
</tr>
<tr>
<td>□ Lipid interactions of integral membrane proteins: Rapid evaluation by a synthetic biology approach (Frank Bernhard, Frankfurt am Main, Germany)</td>
</tr>
<tr>
<td>□ Effect of 6,6-diNonyl-2,2-oxalylcinnamic acid on Pseudomonas aeruginosa's shape and membrane integrity (Micheline El Khouly, Brussels, Belgium)</td>
</tr>
<tr>
<td>□ The specificity of thioesterins and glutaredoxins is determined by electrostatic and geometric complementarity and not by redox potential (Christopher Horst Laigl, Greifswald, Germany)</td>
</tr>
<tr>
<td>□ GEP/CX3-deficient human white blood cells exhibit distinct endoplasmic reticulum stress response (Rebecca Pittner, Budapest, Hungary)</td>
</tr>
<tr>
<td>□ Redox regulation of NADK-ATPase activity at pathological conditions (Ina Petrushenko, Moscow, Russian Federation)</td>
</tr>
<tr>
<td>□ Unfolded protein response to the hypercholesterolemia induced endoplasmic reticulum stress in atherosclerosis (Perinur Bözyóküt, Istanbul, Turkey)</td>
</tr>
<tr>
<td><strong>1:30 PM–3:00 PM</strong></td>
</tr>
<tr>
<td>□ DNA damage response: Mechanism of transcriptional regulation by p53 and promote survival in response to anti-tumor drugs (Antonis Koromilas, Montreal, Canada)</td>
</tr>
<tr>
<td>□ Mechanistic dissection of the early phase of UsnRNP biogenesis uncovers a role of ribosomes in assembly and RNP homeostasis (Rajalakshmi Meduri, Würzburg, Germany)</td>
</tr>
<tr>
<td>□ Towards genome wide reconstruction and validation of signal transduction networks (Marcus Kranz, Berlin, Germany)</td>
</tr>
<tr>
<td>□ Mechanistic dissection of the early phase of UsnRNP biogenesis uncovers a role of ribosomes in assembly and RNP homeostasis (Rajalakshmi Meduri, Würzburg, Germany)</td>
</tr>
<tr>
<td>□ The Ubiquitin-Proteosome System as a central regulator of cellular antioxidant responses, mitostasis and proteostasis (Iarissi Troupakis, Athens, Greece)</td>
</tr>
<tr>
<td>□ Cardiac sympathetic neuron distribution controls myocardial cell size by local modulation of cardiomyocyte biogenesis (Rajalakshmi Meduri, Würzburg, Germany)</td>
</tr>
<tr>
<td>□ The Ubiquitin-Proteosome System as a central regulator of cellular antioxidant responses, mitostasis and proteostasis (Iarissi Troupakis, Athens, Greece)</td>
</tr>
<tr>
<td>□ Cardiac sympathetic neuron distribution controls myocardial cell size by local modulation of cardiomyocyte biogenesis (Rajalakshmi Meduri, Würzburg, Germany)</td>
</tr>
<tr>
<td>□ The Ubiquitin-Proteosome System as a central regulator of cellular antioxidant responses, mitostasis and proteostasis (Iarissi Troupakis, Athens, Greece)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>THEORETICAL BIOLOGY</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1:30 PM–3:00 PM</strong></td>
</tr>
<tr>
<td>□ Modeling TNFR1 signal transduction using Petri net formalism (Leanne Amstol, Frankfurt am Main, Germany)</td>
</tr>
<tr>
<td>□ Sensor kinases TOR and GCN2 orchestrate translation and autophagy in response to carbon, nitrogen and sulfur supply for cysteine synthesis in plants (Yuan Dong, Heidelberg, Germany)</td>
</tr>
<tr>
<td>□ Towards genome wide reconstruction and validation of signal transduction networks (Marcus Kranz, Berlin, Germany)</td>
</tr>
<tr>
<td>□ Mechanistic dissection of the early phase of UsnRNP biogenesis uncovers a role of ribosomes in assembly and RNP homeostasis (Rajalakshmi Meduri, Würzburg, Germany)</td>
</tr>
<tr>
<td>□ Cardiac sympathetic neuron distribution controls myocardial cell size by local modulation of cardiomyocyte biogenesis (Rajalakshmi Meduri, Würzburg, Germany)</td>
</tr>
<tr>
<td>□ The Ubiquitin-Proteosome System as a central regulator of cellular antioxidant responses, mitostasis and proteostasis (Iarissi Troupakis, Athens, Greece)</td>
</tr>
<tr>
<td>□ Cardiac sympathetic neuron distribution controls myocardial cell size by local modulation of cardiomyocyte biogenesis (Rajalakshmi Meduri, Würzburg, Germany)</td>
</tr>
<tr>
<td>□ The Ubiquitin-Proteosome System as a central regulator of cellular antioxidant responses, mitostasis and proteostasis (Iarissi Troupakis, Athens, Greece)</td>
</tr>
<tr>
<td>□ Mechanistic dissection of the early phase of UsnRNP biogenesis uncovers a role of ribosomes in assembly and RNP homeostasis (Rajalakshmi Meduri, Würzburg, Germany)</td>
</tr>
<tr>
<td>□ Cardiac sympathetic neuron distribution controls myocardial cell size by local modulation of cardiomyocyte biogenesis (Rajalakshmi Meduri, Würzburg, Germany)</td>
</tr>
<tr>
<td>□ The Ubiquitin-Proteosome System as a central regulator of cellular antioxidant responses, mitostasis and proteostasis (Iarissi Troupakis, Athens, Greece)</td>
</tr>
</tbody>
</table>
2:06 PM–2:10 PM P03-006-SP □ Programmed translation arrest controlling antibiotic resistance genes relies on the sequence context of the nascent peptide stalling domain Nora Vanquez-Laslop (Chicago, United States of America)

1:30 PM–3:00 PM SPEED TALKS

1:30 PM–1:34 PM P22-005-SP □ Defective cross-talk between the ubiquitin proteasome system and the autophagy lysosomal pathway under proteasome stress in aged rat hippocampus Diego Ruano (Sevilla, Spain)

1:34 PM–1:38 PM P22-006-SP □ Molecular links between aberrant protein oligomers and neurodegeneration in Alzheimer’s disease Roberta Cascella (Florence, Italy)

1:38 PM–1:42 PM P22-007-SP □ The dysfunction of retrograde transport is sufficient to disrupt Aβ clearance in astrocytes via disturbed endosome trafficking Nobuyuki Kimura (Aichi, Japan)

1:42 PM–1:46 PM P22-008-SP □ Labeled quantitative proteomic analysis of astrocytes directly converted to neurons Hendrik Schöneborn (Bochum, Germany)

1:46 PM–1:50 PM P21-003-SP □ The small GTPase Rab8 regulates localization of the Cohen syndrome-associated protein COH1 to the Golgi complex Manfred Konrad (Göttingen, Germany)

1:50 PM–1:54 PM P21-004-SP □ Neuronal NOS is involved in the neuronal differentiation of hippocampal neural progenitor cells Shin-Young Park (Seoul, Republic of Korea)

1:54 PM–1:58 PM P21-005-SP □ Role of hippocampal in early developmental stage of hippocampal neurogenesis Min-Jeong Kang (Seoul, Republic of Korea)

1:58 PM–2:02 PM P21-006-SP □ SNK482 inhibits semaphorin 3A induced sensory axon growth cone collapse Andrius Kaselis (Kaunas, Lithuania)

2:02 PM–2:06 PM P21-014 □ Targeting PTEN and associated signalling networks in oncogenesis Yu-An Hsu (Hsinchu, Republic of China)

2:06 PM–2:10 PM P17-005-SP □ The role of microRNA cluster MIR223A-27A-24-2 in the development of aggressive B-cell lymphoma Natalie Klytta (Braunschweig, Germany)

2:10 PM–2:14 PM P17-006-SP □ mHR-155 modulates IFNγ signaling pathway by targeting SOCS1 expression in biliary atresia Yo-An Hou (Hsinchu, Republic of China)

2:14 PM–2:18 PM P17-007-SP □ miRNA target enrichment network analysis in Hepatocellular carcinoma Davis Pascual (Trieste, Italy)

2:18 PM–2:22 PM P17-008-SP □ Anti-miRNAzymes as a potential tool for therapy of brain tumors Katarzyna Rolle (Poznan, Poland)

2:22 PM–2:26 PM P15-004-SP □ Breast cancer cell line MCF7 escapes from G1/S arrest induced by proteasome inhibition through a GSK3β-depended mechanism Tanya Budkevych (Berlin, Germany)

2:26 PM–2:30 PM P15-005-SP □ Intracellular lysogens to augment the anti-tumoral efficacy of targeted toxins Alexander Wing (Berlin, Germany)

2:30 PM–2:34 PM P15-006-SP □ Molecular engineering of L-asparaginases used in antileukemic therapy Manfred Konrad (Göttingen, Germany)

Foyer POSTER SESSION

1:30 PM–3:00 PM Poster Session 1 See page 55

Monday, July 6, 2015

Conventional Hall A/B

3:00 PM–5:00 PM RNA-Based Disease Mechanism and Therapy (Part II)

Chairs: Gideon Dreyfuss (Philadelphia, United States of America) Albert Althuis (Stuttgart, Germany)

3:00 PM–3:30 PM □ Telescripting: Overarching Gene Expression Mechanism Controlled by U1 snRNP Gideon Dreyfuss (Philadelphia, United States of America)

3:30 PM–4:00 PM □ Kinetics of mRNA biogenesis Marie-Carina Fonseca (Lisbon, Portugal)

4:00 PM–4:15 PM □ MicroRNA and alternative splicing regulate the expression of SRSF2 in renal cancer Elżbieta Sokol (Warsaw, Poland)

4:15 PM–4:30 PM □ Cytoplasmic Polyadenylation Binding Proteins bind to the mRNA of insulin receptor impairing the expression of the protein in mouse kidney in diabetic conditions Moisés Sandoval (Valdivia, Chile)

4:30 PM–5:00 PM □ Networks of alternative splicing regulation in cancer Juan Vicancio (Barcelona, Spain)

ECC Room 1 Gen Ex S3-II SYMPOSIUM

3:00 PM–5:00 PM Translational Control and Protein Turnover (Part II)

Chair: Zoya Ignatova (Potsdam, Germany)

3:00 PM–3:30 PM □ Antioxidants and translation Alexander Marink (Chicago, United States of America)

3:30 PM–4:00 PM □ Genomic-wide translational profiling Nicholas Ingolia (San Francisco, United States of America)

4:00 PM–4:15 PM □ Structural landscape of actively translating human ribosomes Tanya Budkevych (Berlin, Germany)

4:15 PM–4:30 PM □ mTORC2 balances Akt activation and elf2α serine 51 phosphorylation to promote survival under stress Antonis Koromilas (Montreal, Canada)

4:30 PM–5:00 PM □ P RNA function in adaptive translation and disease Zoya Ignatova (Potsdam, Germany)

ECC Room 2 Sys Bist S3-II SYMPOSIUM

3:00 PM–5:00 PM Comprehensive Models of Metabolism and Signaling (Part II)

Chairs: Walter Kolch (Dublin, Ireland) Edwin Kipp (Berlin, Germany)

3:00 PM–3:30 PM □ Further steps in modeling cancer metabolism Eytan Ruppin (Tel Aviv, Israel)

3:30 PM–4:00 PM □ Regulation of metabolism: from steady state to dynamics Bas B. Teusink (Groningen, Netherlands)

4:00 PM–4:15 PM □ Inborn errors in fatty-acid metabolism: living on the edge Karen van Eunen (Groningen, Netherlands)

4:15 PM–4:30 PM □ Metabolome profiling of the sleeping chironomid: restarting the cell engine after anhydrobiosis Elena Shagimardanova (Kazan, Russian Federation)

4:30 PM–5:00 PM □ Understanding host-microbe metabolic interactions through computational modelling Ines Thiele (Bilbao, Luxembourg)
<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Symposium Name</th>
<th>Chair(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00 PM–5:00 PM</td>
<td>Mol Neu S3-II</td>
<td>Degeneration and Ageing of the Nervous System (Part II)</td>
<td>Bart De Strooper (Leuven, Belgium), Christian Haass (Marburg, Germany)</td>
</tr>
<tr>
<td>3:00 PM–3:30 PM</td>
<td>ECC Room 3</td>
<td>The pathobiology of the secretases in Alzheimer disease</td>
<td>Bart De Strooper (Leuven, Belgium)</td>
</tr>
<tr>
<td>3:30 PM–4:00 PM</td>
<td></td>
<td>Insulin-nutrient signaling axis promotes amyloid formation</td>
<td>Lawrence Ejendran (Schlieren, Switzerland)</td>
</tr>
<tr>
<td>4:00 PM–4:15 PM</td>
<td></td>
<td>Genetic and physiological cross-talk of parkin with the neurotrophic GDNF receptor RIT in dopaminergic neurons</td>
<td>Edgar Kramer (Hamburg, Germany)</td>
</tr>
<tr>
<td>4:15 PM–4:30 PM</td>
<td></td>
<td>Neurovascular coupling mediated by nitric oxide: mechanisms in Alzheimer disease, aging and metabolic acidosis</td>
<td>João Larache (Coimbra, Portugal)</td>
</tr>
<tr>
<td>4:30 PM–5:00 PM</td>
<td></td>
<td>Protein aggregation and its toxic effect in neurodegenerative diseases</td>
<td>Mano Graça Spillantini (Cambridge, United Kingdom)</td>
</tr>
<tr>
<td>5:00 PM–5:30 PM</td>
<td>Estrel Hall A</td>
<td>EMT Room 3</td>
<td></td>
</tr>
<tr>
<td>3:00 PM–5:00 PM</td>
<td>Mem Biol S2-II</td>
<td>Autophagy and Degradation (Part III)</td>
<td>David C. Rubinsztein (Cambridge, United Kingdom), Ivan Dikic (Frankfurt am Main, Germany)</td>
</tr>
<tr>
<td>3:00 PM–3:30 PM</td>
<td></td>
<td>Regulation of endoplasmic reticulum turnover by selective autophagy</td>
<td>Ivan Dikic (Frankfurt am Main, Germany)</td>
</tr>
<tr>
<td>3:30 PM–4:00 PM</td>
<td></td>
<td>Molecular mechanisms of autophagosome formation</td>
<td>Sharon Toole (London, United Kingdom)</td>
</tr>
<tr>
<td>4:00 PM–4:15 PM</td>
<td></td>
<td>Organisation of Atg1 Ipitation by Atg21</td>
<td>Roswitha Krick (Göttingen, Germany)</td>
</tr>
<tr>
<td>4:15 PM–4:30 PM</td>
<td></td>
<td>Implications of PINK1-mediated ubiquitin Ser65 phosphorylation</td>
<td>Tobias Wauer (Cambridge, United Kingdom)</td>
</tr>
<tr>
<td>4:30 PM–5:00 PM</td>
<td></td>
<td>RIP1 Proteins: Essential PtdIns3P Effectors in Autophagy, Health and Disease</td>
<td>Tassula Proikas-Cezanne (Tübingen, Germany)</td>
</tr>
<tr>
<td>5:00 PM–5:30 PM</td>
<td>Estrel Hall C</td>
<td>Symp Poisonium</td>
<td></td>
</tr>
<tr>
<td>3:00 PM–5:00 PM</td>
<td>Struct Biol S3-II</td>
<td>Protein-Mediated Membrane Deformation and Penetration (Part III)</td>
<td>Oliver Daumle (Berlin, Germany)</td>
</tr>
<tr>
<td>3:00 PM–3:30 PM</td>
<td></td>
<td>How to make an Autophagosome – Membrane Remodeling in Autophagy</td>
<td>Thomas Wolpert (Maribor, Slovenia)</td>
</tr>
<tr>
<td>3:30 PM–4:00 PM</td>
<td></td>
<td>Visualizing the Mechanisms of Membrane Remodeling – One Family at a Time</td>
<td>Vincenzo M. Unger (Chicago, United States of America)</td>
</tr>
<tr>
<td>4:00 PM–4:15 PM</td>
<td></td>
<td>Function of AP-3 (Adaptor protein complex 3) in membrane remodelling and fusion</td>
<td>Erdal Yavuz (Göttingen, Germany)</td>
</tr>
<tr>
<td>4:15 PM–4:30 PM</td>
<td></td>
<td>Characterization of arrested trans SNARE complexes</td>
<td>Hakimur Yavuz (Göttingen, Germany)</td>
</tr>
<tr>
<td>4:30 PM–5:00 PM</td>
<td></td>
<td>Multisubunit tethering complexes orchestrate vesicle docking and fusion</td>
<td>Frederick Hugshon (Princeton, United States of America)</td>
</tr>
</tbody>
</table>

COFFEE BREAK
<table>
<thead>
<tr>
<th>MAIN PROGRAM</th>
<th>MAIN PROGRAM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tuesday, July 7, 2015</strong></td>
<td><strong>Tuesday, July 7, 2015</strong></td>
</tr>
</tbody>
</table>

### Poster Session 2

**Time:** 9:00 AM–11:00 AM

**Location:** Foyer Convention Center

#### Targeted Cancer Therapy

**Chairs:** Clemens Schmitt (Berlin, Germany)
Roger Lo (Los Angeles, United States of America)

- Systematic functional perturbations to reveal novel cancer vulnerabilities
  - Daniel Peeper (Amsterdam, Netherlands)

- Evading anti-tumor immunity: a novel role for FAK in controlling Tregs via transcription of cytokine networks
  - Margaret Frame (Edinburgh, United Kingdom)

- Autophagy is pivotal for Hodgkin’s and Reed-Sternberg cells’ survival revealing a new strategy for lymphoma treatment
  - Katrin Birkenmeier (Frankfurt am Main, Germany)

- DNA repair protein Pab151 is strongly affected by abl-mediated double phosphorylation on Y315 and Y54
  - Brendan Alligand (Nantes, France)

### Turning Signals into Messages – the Complexity of Gene Regulation

**Chairs:** Christine Blattner (Karlsruhe, Germany)
Frank C.P. Holstege (Utrecht, Netherlands)

- Sequence and chromatin determinants of DNA methylation
  - Dirk Schübeler (Basel, Switzerland)

- Epigenetic genome control by RNA processing factors and heterochromatin machinery
  - Shiv Grewal (Bethesda, United States of America)

- Disentangling the gene-regulatory network controlling mono-allelic and female-specific expression of Xist at the onset of X-chromosome inactivation
  - Edda Schulz (Berlin, Germany)

- Non-classic effects in stochastic gene expression
  - Tatiana Marquez Lago (Ohma-son, Japan)

### Data Management & Reproducibility

**Time:** 9:00 AM–10:30 AM

**Location:** Foyer Convention Center

#### FEBS Science & Society Session

**Time:** 9:00 AM–10:30 AM

**Location:** Foyer Convention Center

- Non-classic effects in stochastic gene expression
  - Tatiana Marquez Lago (Ohma-son, Japan)

- The estrogen-inducible finger-protein TRIM25 controls p53 abundance and activity
  - Christine Blattner (Karlsruhe, Germany)

- Analysing regulatory circuitry by genome-wide perturbation analyses
  - Frank C.P. Holstege (Utrecht, Netherlands)
<table>
<thead>
<tr>
<th>MAIN PROGRAM</th>
<th>MAIN PROGRAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday, July 7, 2015</td>
<td>Tuesday, July 7, 2015</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ECC Room 2</th>
<th>Sys Biol S1 SYMPOSIUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 AM–11:00 AM</td>
<td>Interspecies Communications</td>
</tr>
<tr>
<td>Chairs: Peer Bork (Heidelberg, Germany)</td>
<td>Jörg Vogel (Würzburg, Germany)</td>
</tr>
<tr>
<td>8:30 AM–9:00 AM</td>
<td>Metagenomic analysis of microbial communities: from gut to ocean Peer Bork (Heidelberg, Germany)</td>
</tr>
<tr>
<td>9:00 AM–9:30 AM</td>
<td>‘Currency’ exchange underlying the long term association between squid and bioluminescent bacteria Natacha-Kremer (Madison, United States of America)</td>
</tr>
<tr>
<td>9:30 AM–9:45 AM</td>
<td>Genetic dissection of the potential pattern recognition receptor IGLR-2 for Enterohemorrhagic Escherichia coli immunity in Caenorhabditis elegans Chang-Shi Chen (Taipei, Republic of China)</td>
</tr>
<tr>
<td>9:45 AM–10:00 AM</td>
<td>Role of the intestinal Muc2 mucin in the Vibrio cholerae quorum sensing responses along the intestinal tract Robert Rojas (Santiago, Chile)</td>
</tr>
<tr>
<td>10:00 AM–10:30 AM</td>
<td>Quorum Sensing and its Control Bonnie L. Bassler (Princeton, United States of America)</td>
</tr>
<tr>
<td>10:30 AM–11:00 AM</td>
<td>Dual RNA-seq unveils noncoding RNA functions in Salmonella-host interplay Jörg Vogel (Würzburg, Germany)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ECC Room 3</th>
<th>Miol Neu S2 SYMPOSIUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 AM–11:00 AM</td>
<td>Mechanisms of Nervous System Development and Regeneration</td>
</tr>
<tr>
<td>Chairs: Frank Bradke (Bonn, Germany)</td>
<td>Britta Eckhoff (Berlin, Germany)</td>
</tr>
<tr>
<td>8:30 AM–9:00 AM</td>
<td>Transcriptome Network Analysis Identifies Cacna2d2 as a Developmental Switch that Limits Regenerative Ability in the Adult CNS Frank Bradke (Bonn, Germany)</td>
</tr>
<tr>
<td>9:00 AM–9:30 AM</td>
<td>Nerve fiber growth, new circuit formation and functional recovery after brain and spinal cord injuries Martin Schwab (Zurich, Switzerland)</td>
</tr>
<tr>
<td>9:30 AM–9:45 AM</td>
<td>Manipulating recycling endosomes to increase axon regeneration in the CNS Richard Eva (Cambridge, United Kingdom)</td>
</tr>
<tr>
<td>9:45 AM–10:00 AM</td>
<td>Loss of Sad kinases results in different phenotypes during hippocampal and cortical development Prabha Dhume (Muenster, Germany)</td>
</tr>
<tr>
<td>10:00 AM–10:30 AM</td>
<td>The Importins of Axonal Transport in Neuronal Growth and Regeneration Michael Fairzliber (Rehovot, Israel)</td>
</tr>
<tr>
<td>10:30 AM–11:00 AM</td>
<td>Organizing P3K/PTEN signaling in space and time: Implication for neuronal development and regeneration Britta Eckhoff (Berlin, Germany)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Estrel Hall A</th>
<th>Mem Biol S3 SYMPOSIUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 AM–11:00 AM</td>
<td>Redox-Regulation of Biological Activities</td>
</tr>
<tr>
<td>Chairs: Johannes Herrmann (Kaiserslautern, Germany)</td>
<td>Vadim N. Gladyshev (Boston, United States of America)</td>
</tr>
<tr>
<td>8:30 AM–9:00 AM</td>
<td>A multi-layered redox system protects proteins from oxidation in the bacterial cell envelope Jean François Collet (Brussels, Belgium)</td>
</tr>
<tr>
<td>9:00 AM–9:30 AM</td>
<td>Oxidative folding of cone snail toxins by specialized venom gland protein disulfide isomerases Lars Ellgaard (Copenhagen, Denmark)</td>
</tr>
<tr>
<td>9:30 AM–9:45 AM</td>
<td>SEPN1, an endoplasmic reticulum-localized selenoprotein, counteracts hyperoxidation by means of redox-regulating SERCA2 pump activity Ester Zito (Milan, Italy)</td>
</tr>
<tr>
<td>9:45 AM–10:00 AM</td>
<td>Calmodulin-sensitive NAD kinase controls animal NADP biosynthesis Mathias Seeger (Bergen, Norway)</td>
</tr>
<tr>
<td>10:00 AM–10:30 AM</td>
<td>Diverse and unexpected mechanisms of redox control Vadim N. Gladyshev (Boston, United States of America)</td>
</tr>
<tr>
<td>10:30 AM–11:00 AM</td>
<td>Redox-mediated protein import into mitochondria Johannes Herrmann (Kaiserslautern, Germany)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Estrel Hall C</th>
<th>Struct Biol S2 SYMPOSIUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 AM–11:00 AM</td>
<td>Channels and Transporters</td>
</tr>
<tr>
<td>Chairs: Poul Nissen (Aarhus, Denmark)</td>
<td>Lutz Schmitt (Düsseldorf, Germany)</td>
</tr>
<tr>
<td>8:30 AM–9:00 AM</td>
<td>Structure and mechanism of a bacterial multi-drug efflux pump Ben Luisi (Cambridge, United Kingdom)</td>
</tr>
<tr>
<td>9:00 AM–9:30 AM</td>
<td>Structure and mechanism of Na+ dependent transporters Poul Nissen (Aarhus, Denmark)</td>
</tr>
<tr>
<td>9:30 AM–10:00 AM</td>
<td>Mechanisms of vitamin transport Dirk J. Slotboom (Groningen, Netherlands)</td>
</tr>
<tr>
<td>10:00 AM–10:30 AM</td>
<td>Crystal Structure of the Transport Unit of Auto Transporter AIDA I from E. coli Lutz Schmitt (Düsseldorf, Germany)</td>
</tr>
<tr>
<td>10:30 AM–10:45 AM</td>
<td>First structural insights in the opening of Channelrhodopsin-2 Nils Krause (Berlin, Germany)</td>
</tr>
<tr>
<td>10:45 AM–11:00 AM</td>
<td>Evolutionary divergent lysine regulates electrostatic stoichiometric coupling and voltage dependence of the chloride/proton exchanger CIC-5 Alexi Aliev (Hannover, Germany)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Convention Hall A/B</th>
<th>PLENARY LECTURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30 AM–12:30 PM</td>
<td>PAHBMB Lecture</td>
</tr>
<tr>
<td>Chair: Markus Wahl (Berlin, Germany)</td>
<td></td>
</tr>
<tr>
<td>MAIN PROGRAM</td>
<td>MAIN PROGRAM</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------</td>
</tr>
<tr>
<td><strong>Tuesday, July 7, 2015</strong></td>
<td><strong>Tuesday, July 7, 2015</strong></td>
</tr>
</tbody>
</table>

### ECC Room 1

#### SYMPOSIUM

**12:30 PM-2:30 PM**

Wako Pure Chemical Industries, Ltd.: Novel application and technology for research of Non-coding RNA (miRNA and IncRNA), protein phosphorylation and, novel transfection technologies based on using combinatorial chemistry and high-throughput cell screening

Takou Funakoshi (Osaka, Japan)
Gary Davidson (Portsmouth, Germany)

### Convention Hall A/B

#### SPECIAL SESSION/WORKSHOP

**1:00 PM-3:00 PM**

**FEBS Education Session: Research in Undergraduate Education**

Chair: Tomáš Zima (Prague, Czech Republic)
Gül Güner (Izmir, Turkey)

- **1:00 PM-1:05 PM**
  - Introduction
- **1:05 PM-1:30 PM**
  - Bridging the gap between class practicals and research projects
  - Frank Micheangelo (Birmingham, United Kingdom)
- **1:30 PM-1:55 PM**
  - Setting Research Projects that involve Undergraduate Students
  - Laszlo Dux (Szeged, Hungary)
- **1:55 PM-2:10 PM**
  - The student perspective on research in undergraduate education
  - Estafanía Mucino Castillo (Paris, France)
- **2:10 PM-3:00 PM**
  - Panel Discussion
  - Gül Güner (Izmir, Turkey)
  - Tomáš Zima (Prague, Czech Republic)
  - Frank Micheangelo (Birmingham, United Kingdom)
  - Laszlo Dux (Szeged, Hungary)
  - Estafanía Mucino Castillo (Paris, France)

### Foyer

#### POSTER SESSION

**1:30 PM-3:00 PM**

**Poster Session 2**

See page 87

### Convention Hall A/B

#### SPECIAL SESSION/WORKSHOP

**3:00 PM-5:00 PM**

**FEBS Science & Society Session**

**Evolutionary Medicine: Why We Get Sick**

Round Table Discussion: The New Science of Molecular Evolution – Consequences for Biology, Medicine, Public Health

Chair: Jacques-Henry Weil (Strasbourg, France)
Detlev Ganten (Berlin, Germany)

- **3:00 PM-3:05 PM**
  - Welcome
  - Jacques-Henry Weil (Strasbourg, France)
- **3:05 PM-3:25 PM**
  - Introductory Lecture: From Darwin’s theory of evolution to molecular evolutionary medicine
  - Detlev Ganten (Berlin, Germany)
- **3:25 PM-3:45 PM**
  - Application I: Evolutionary applications to medicine and public health
  - Axel Meyer (Konstanz, Germany)
- **3:45 PM-4:05 PM**
  - Application II: From Cells to Disease
  - Gillian Bentley (Durham, United Kingdom)
- **4:05 PM-4:15 PM**
  - Short introduction of the participants by the chairs
  - Jacques-Henry Weil (Strasbourg, France)
  - Detlev Ganten (Berlin, Germany)
- **4:15 PM-5:00 PM**
  - Round table discussion: The new science of molecular evolution – consequences for biology, medicine, public health
  - Peter Hammerstein (Berlin, Germany)
  - Frank Rühli (Zurich, Switzerland)
  - Bernard Swynghedauw (Paris, France)

### 5:00 PM-5:30 PM

**SPECIAL SESSION/WORKSHOP**

**Data Management & Reproducibility**

Chair: Laszlo Fesus (Debrecen, Hungary)
Carsten Kettner (Frankfurt am Main, Germany)

- **5:30 PM-5:40 PM**
  - Introduction
  - Carsten Kettner (Frankfurt am Main, Germany)
  - Laszlo Fesus (Debrecen, Hungary)
- **5:40 PM-5:55 PM**
  - Transparent Publishing: How to Share Reproducible Data
  - Bernd Pukerer (Heidelberg, Germany)
- **5:55 PM-6:10 PM**
  - The advantage of standards in reporting enzyme data
  - Richard Armstrong (Nashville, United States of America)
- **6:10 PM-6:25 PM**
  - Systems biology and representative of “wet” metabolic research and kinetic modelling of metabolic pathways
  - Barbara M. Bakker (Groningen, Netherlands)
- **6:25 PM-6:40 PM**
  - Data standards and quality in the enzyme field – from unstructured data in papers to data fields in BREnda
  - Dietmar Schomburg (Braunschweig, Germany)
- **6:40 PM-6:55 PM**
  - SourceData: making data available and discoverable
  - Thomas Lemberger (Heidelberg, Germany)
- **6:55 PM-7:30 PM**
  - Open Discussion

### 5:30 PM-7:30 PM

**Foyer**

#### SPECIAL SESSION/WORKSHOP

**FEBS Women in Science Session**

Chair: Cecília M. Arraiano (Oeiras, Portugal)

- **5:30 PM-6:00 PM**
  - European Universities and Gender Issues
  - Lidia Borrell-Damán (Brussels, Belgium)
- **6:00 PM-6:30 PM**
  - EPWS – the Voice of Women Scientists in Europe
  - Brigitte Mühlenbruch (Bonn, Germany)
- **6:30 PM-7:00 PM**
  - The L’Oréal-UNESCO for Women in Science Program
  - Annie Black (Paris, France)
- **7:00 PM-7:30 PM**
  - The Elsevier Foundation New Scholars Program: Leveling the Playing Field
  - Helen Habermehl (Berlin, Germany)
Wednesday, July 8, 2015

**Scientific Program**

**Convention Hall A/B**

- **8:00 AM - 11:00 AM**
  - Symposium: Signal Transduction in Tumor Development, Differentiation and Immune Escape (Part I)
  - Symposium: Non-Coding RNAs in Gene Regulation (Part I)
  - Symposium: Molecular Architecture and Assembly of the Synapse (Part II)
  - Symposium: Light Signaling & Dynamics (Part II)
  - Symposium: Monitoring Protein Conformational Dynamics and Movement (Part II)

**ECC Room 1**

- **8:00 AM - 11:00 AM**
  - Symposium: Signal Transduction in Tumor Development, Differentiation and Immune Escape (Part II)

**ECC Room 2**

- **8:00 AM - 11:00 AM**
  - Symposium: Non-Coding RNAs in Gene Regulation (Part II)

**ECC Room 3**

- **8:00 AM - 11:00 AM**
  - Symposium: Molecular Architecture and Assembly of the Synapse (Part II)

**Exhibit Hall A**

- **8:00 AM - 11:00 AM**
  - Symposium: Light Signaling & Dynamics (Part II)

**Exhibit Hall C**

- **8:00 AM - 11:00 AM**
  - Symposium: Monitoring Protein Conformational Dynamics and Movement (Part II)

**Foyer Convention Center**

- **9:30 AM**
  - Poster Session 2

---

**Symposium: Signal Transduction in Tumor Development, Differentiation and Immune Escape (Part I)**

**Chair:** Klaudia Giehl (Giessen, Germany)

- **9:00 AM - 9:30 AM**
  - 

**Symposium: Non-Coding RNAs in Gene Regulation (Part I)**

**Chair:** Nikolaus Rajewsky (Berlin, Germany)

- **9:00 AM - 9:30 AM**
  - Transgenerational epigenetic inheritance and RNAs
  - The SS RNP connects ribosome production to cellular signaling
  - On-enzyme refolding permits small RNA and tRNA surveillance by the CCA-adding enzyme
  - The impact of antisense transcription on protein abundance in yeast
  - Regulation of protein localization and function by alternative 3'UTRs

---

**Symposium: Signal Transduction in Tumor Development, Differentiation and Immune Escape (Part II)**

**Chair:** Mariano Barbacid (Madrid, Spain)

- **9:00 AM - 9:30 AM**
  - Transforming growth factor and bone morphogenetic protein actions in cancer progression
  - Reconstitution of TGFB2-mediated signaling causes upregulation of GDF-15 in colorectal cancer cells
  - Cell plasticity during EMT and cancer metastasis
  - Epithelial plasticity in cancer and fibrosis

- **9:30 AM - 10:00 AM**
  - The Damaged DNA Binding 2 protein: a new modulator of TGF-β1 signaling pathway and membrane nanomechanics in breast cancer cells

---

**Symposium: Non-Coding RNAs in Gene Regulation (Part II)**

**Chair:** Nikolaus Rajewsky (Berlin, Germany)

- **9:00 AM - 9:30 AM**
  - 

---

**Symposium: Molecular Architecture and Assembly of the Synapse (Part II)**

**Chair:** Marla Angola Neto (Alicante, Spain)

- **9:00 AM - 9:30 AM**
  - 

---

**Symposium: Light Signaling & Dynamics (Part II)**

**Chair:** Jürgen Kopitz (Heidelberg, Germany)

- **9:00 AM - 9:30 AM**
  - 

---

**Symposium: Monitoring Protein Conformational Dynamics and Movement (Part II)**

**Chair:** Claire Barbieux (Vandoeuvre lès Nancy, France)

- **9:00 AM - 9:30 AM**
  - 

---

**Coffee Break**

- **10:00 AM - 10:30 AM**

---

**Lunch Break**

- **12:00 PM - 13:00 PM**

---

**Plenary Lecture**

- **12:00 PM - 13:00 PM**

---

**The FEBS Journal Prize Lecture**

- **6:00 PM - 7:30 PM**

---

**Networking Evening at Frannz Restaurant**

- **9:00 PM - 11:00 PM**
Scientific Program

Wednesday, July 8, 2015

**ECC Room 2 | Sys Biol S5-I | SYMPOSIUM**

**8:30 AM–11:00 AM**

**Systems Biology in Stem Cells**

Chair: Ana Pombo (Berlin, Germany)

- Self-organization of mouse ES cell ensembles: far from the edge of chaos
  Alfonso Martinez Arias (Cambridge, United Kingdom)
- The tale of two tails
  Ho-Ryun Chung (Berlin, Germany)
- Alternative splicing in the regulation of planarian stem cells in vivo
  Jordi Solana (Berlin, Germany)
- Self-organizing patterning systems in planarian regeneration
  Jochen Rink (Dresden, Germany)

**ECC Room 3 | Mol/Neu S4-I | SYMPOSIUM**

**8:30 AM–11:00 AM**

**Molecular Architecture and Assembly of the Synapse (Part I)**

Chair: Casper Hoogenraad (Utrecht, Netherlands)

- Synaptic and extrasynaptic functions of a molecular co-chaperone
  Rafael Fernandez-Chacon (Sevilla, Spain)
- Molecular mechanisms of synapse maintenance
  Yish Jin (San Diego, United States of America)
- Analysis of a PIST KO-mouse line for changes in the central nervous system
  Judith Koether (Hamburg, Germany)
- Dendritic spines are initiated by MIM-induced membrane bending
  Pirta Hotulainen (Helsinki, Finland)
- Novel mechanisms for regulating synaptic vesicle transport
  Casper Hoogenraad (Utrecht, Netherlands)
- Linking nanoscale synapse organization and function
  Daniel Choquet (Bordeaux, France)

**Estrel Hall A | Mem Biol S5-I | SYMPOSIUM**

**8:30 AM–11:00 AM**

**Lipid Signaling & Dynamics (Part I)**

Chair: Tamas Ilia (Bethesda, United States of America)

- Phosphoinositide conversion within the endolysosomal system
  Volker Haucke (Berlin, Germany)
- Class II PI3K in the control of proliferation and metabolism
  Emilio Hirsch (Torino, Italy)
- Dual targeting of PI3K and SHIP1 for a syngeneic inhibition of IgE mediated mast cell activation
  Fabrizio Bodor (Basel, Switzerland)
- Stomatin enriched Lipid-rafts are required for Salmonella Typhimurium clustering near the Golgi apparatus after invasion of epithelial cells
  Dora Kaloyanova (Utrecht, Netherlands)
- The phosphoinositides and the Golgi complex
  Antonella De Matteis (Naples, Italy)
- Monitoring the dynamic change of plasma membrane inositol lipid pools upon EGF and M3 receptor activation in live cells
  Peter Varnai (Budapest, Hungary)

**Estrel Hall C | Struct Biol S4-I | SYMPOSIUM**

**8:30 AM–11:00 AM**

**Monitoring Protein Conformational Dynamics and Movement (Part I)**

Chair: Ilme Schlichting (Heidelberg, Germany)

- Nucleosome distortion is coupled to translocation by a chromatin remodeling motor
  John Gross (San Francisco, United States of America)
- Dynamic Complexes and Complex Dynamics – Visualising Molecular Recognition Trajectories of Intrinsically Disordered Viral and Signalling Proteins using NMR Spectroscopy
  Martin Blackledge (Grenoble, France)
- Laws of attraction and repulsion: structure and dynamics of a novel family of bacterial chemoreceptors
  Anna Roujeinikova (Calyton, Australia)
- Structural studies of the N-terminal domains of the DNA Partitioning protein IncC from the plasmid RK2
  Muhammad Rahman (Birmingham, United Kingdom)
- Conformational Dynamics of Membrane Proteins from DEER Spectroscopy
  Hassane Mchaourab (Nashville, United States of America)
- Mechanism of allosteric inhibition of translation initiation
  Gerhard Wagner (Boston, United States of America)

**11:00 AM–11:30 AM**

COFFEE BREAK
11:30 AM–12:30 PM
Sir Hans Krebs Lecture

Chairs: Alan Fersht (Cambridge, United Kingdom), Stephan Sigrist (Bern, Germany)

11:30 AM–11:35 AM
Laudation
Stephan Sigrist (Bern, Germany)

11:35 AM–12:30 PM
Modelling human brain development and disease in 3D culture
Jürgen Knobloch (Vienna, Austria)

12:30 PM–1:30 PM
Membranes, Receptors & Bioenergetics + Structural Biology and Biophysics

11:30 AM–11:35 AM
Convention Hall A/B
PLENARY LECTURE

1:30 PM–1:34 PM
P36-004-SP
Structure of α-synuclein in human cells: a disordered monomer
François-Xavier TheMêl (Bern, Germany)

1:34 PM–1:38 PM
P36-005-SP
The absolute arrangement of subunits in cytoskeletal septin filaments in cells measured by fluorescence microscope
Helge Evers (Bern, Germany)

1:38 PM–1:42 PM
P36-006-SP
Single-particle FRET analysis of nucleosome structure during transcription with RNA polymerase: experimental systems and methodology
Alxey Fedotov (Moscow, Russian Federation)

1:42 PM–1:46 PM
P36-007-SP
Preventing oxidative damage at the early phase: The case of glucose oxidase
Dušan Petrović (Belgrade, Serbia)

1:46 PM–1:50 PM
P36-008-SP
Cyclin-dependent kinase 5 is involved in pleiotrophin-induced endothelial cell migration
Evangelia Papadimitriou (Patras, Greece)

1:50 PM–1:54 PM
P11-003-SP
Structural insights into conformational changes of Arp2/3 complex, induced by ligand binding
Angélica Chimenti (Moscow, Russian Federation)

1:54 PM–1:58 PM
P11-004-SP
Alostatic regulation of insulin receptors by membrane lipids
Theréssia Gutmann (Dresden, Germany)

1:58 PM–2:02 PM
P11-005-SP
Cyclophilin-dependent kinase 5 is involved in pleiotrophin-induced endothelial cell migration
Evangelia Papadimitriou (Patras, Greece)

2:02 PM–2:06 PM
P12-005-SP
Cooperation of CD14 and PIP5-kinase I in PI(4,5)P2 generation during stimulation of cells with LPS
Agnieszka Płóciennikowska (Warszawa, Poland)

2:06 PM–2:10 PM
P12-006-SP
Characterization of the Ca2+ and phosphoinositide – calcium-dependent neuron helicase in different pathways
Szára Márta (Fuller, Hungary)

2:10 PM–2:14 PM
P12-007-SP
New insights into the underlying mechanisms of Niemann-Pick disease type A/B
Christina-Maria Reimann (Jena, Germany)

2:14 PM–2:18 PM
P12-008-SP
SNX9 regulates focal adhesion disassembly during cell migration
Ilya Almaty (Kazakhstan)

2:18 PM–2:22 PM
P35-005-SP
Folding of right- and left-handed three-helix proteins
Ozana Gazitkaščina (Pristina, Russian Federation)

2:22 PM–2:26 PM
P35-006-SP
The role of surface wettability and environmental conditions in Amyloid β conformational changes
Angelo Accardo (Genova, Italy)

LUNCH BREAK
1:30 PM–3:00 PM | SPEED TALKS

**ECC Room 3**

**From Chemical Biology to Molecular Medicine + Molecular Neuroscience**

1:30 PM–1:34 PM | P24-003-SP
- Vaccina-related kinase 2 controls eukaryotic chaperonin TRiC/CCT stability by inhibiting Ubiquitine-specific protease 25.
  - Dohyun Lee (Pohang, Republic of Korea)

1:34 PM–1:38 PM | P24-004-SP
- Dysfunction of PLC-gamma1 contributes to the development of neuropsychiatric disorders.
  - Yongpyouk Yang (Ulsan, Republic of Korea)

1:38 PM–1:42 PM | P24-005-SP
- Unfolded Protein Response in Parkinson’s disease: a new neuroprotective role for Glutathione S-Transferase pi.
  - Mario Gama (Lisbon, Portugal)

1:42 PM–1:46 PM | P24-006-SP
- Regulation of SH3 domains in intersectin 1 modulates its function in the synaptic vesicle cycle.
  - Fabian Geirr (Berlin, Germany)

1:46 PM–1:50 PM | P16-003-SP
- Biosensing of intact glycosylphosphatidylinositol-anchored proteins in serum as biomarkers for stress-induced diseases.
  - Günter Müller (Garching-Hochbrück, Germany)

1:50 PM–1:54 PM | P16-004-SP
- Interaction analysis between sugar chain and aromatic residue in mammalian protein.
  - Kiyuki Etchuya (Kanagawa, Japan)

1:54 PM–1:58 PM | P16-005-SP
- Analysis of GOLPH3 depletion on protein glycosylation in human glioblastoma multiforme T98G cells.
  - Gonzalo Mardones (Valdivia, Chile)

1:58 PM–2:02 PM | P16-006-SP
- Nanoscale self-assembled multivalent (SAMu) heparin binders: promising clinical tools.
  - Ana Rodrig (York, United Kingdom)

2:02 PM–2:06 PM | P23-005-SP
- Overlapping functions of stonin 2 and SV2 in sorting of the calcium sensor syntaxatin 1 to synaptic vesicles.
  - Tatke Kaeper (Berlin, Germany)

2:06 PM–2:10 PM | P23-006-SP
- Comparison of synaptic connectivity in PSC – derived neurons from patients with schizophrenia and autism.
  - Liane Miere Grunwelt (Rostock, Germany)

2:10 PM–2:14 PM | P23-007-SP
- Diffusional spread and confinement of newly exocytosed synaptic vesicle proteins.
  - Nicolas Gamber (Berlin, Germany)

2:14 PM–2:18 PM | P23-008-SP
- Regulation of PSD-95 MAGUK scaffold assembly.
  - Nils Rademacher (Berlin, Germany)

2:18 PM–2:22 PM | P18-006-SP
- Chronic stress suppresses autophagy and affects spontaneous differentiation of bone marrow stromal cells.
  - Zverystava Husan (Vienna, Austria)

2:22 PM–2:26 PM | P18-007-SP
- Activation and repression by oncogenic Myc shape tumor-specific gene expression profiles.
  - Elmar Wolf (Münzburg, Germany)

**ECC Room 1**

**Gen Ex S5-II SYMPOSIUM**

3:00 PM–5:00 PM

**Chair:** Thomas Tuschi (New York, United States of America)

- PMI interacting RNA in Drosophila; its biogenesis and function.
  - Mikio C. Sawa (Tokyo, Japan)

- RNA silencing and regulation at the epigenetic and translational levels.
  - Sir David Baulcombe (Cambridge, United Kingdom)

- Comparative transcriptome and proteome analyses of Bacillus subtilis 6S-1 and 6S-2 RNAs deletion strains.
  - Olga Burenina (Moscow, Russian Federation)

- Biochemical characterization of long non-coding RNAs.
  - Michel Lubas (Copenhagen, Denmark)

- Human RNA sequencing analysis for research, diagnostic and prognostic studies.
  - Thomas Tuschi (New York, United States of America)

**ECC Room 3**

**Mol Neo S4-II SYMPOSIUM**

3:00 PM–5:00 PM

**Chair:** Caspar Hoogenraad (Utrecht, Netherlands)

- Shedding light on the assembly of synapse structure and function.
  - Stephan Siegenthaler (Berlin, Germany)

- Protein turnover at synapses for a healthy brain.
  - Patrik Versteken (Leuven, Belgium)

- Dynamic of presynaptic calcium channels.
  - Martin Hein (Magdeburg, Germany)

- Vesicular synaptobrevin/VAMP2 levels guarded by AP180 control efficient neurotransmission.
  - Tanja Maritzen (Berlin, Germany)

- Presynaptic assembly and Axonal trafficking in C. elegans.
  - Kang Shon (Stanford, United States of America)
<table>
<thead>
<tr>
<th>Estrel Hall A</th>
<th>Mem Biol S5-II SYMPOSIUM</th>
<th>Wednesday, July 8, 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00 PM–5:00 PM</td>
<td>Lipid Signaling &amp; Dynamics (Part II)</td>
<td>Wednesday, July 8, 2015</td>
</tr>
<tr>
<td>Chairs:</td>
<td>Tamas Balla (Bethesda, United States of America) Volker Haucke (Berlin, Germany)</td>
<td>Wednesday, July 8, 2015</td>
</tr>
<tr>
<td>3:00 PM–3:30 PM</td>
<td>Phosphoinositide turnover and lipid transport. A marriage born at membrane contact sites Tamas Balla (Bethesda, United States of America)</td>
<td>Wednesday, July 8, 2015</td>
</tr>
<tr>
<td>3:30 PM–4:00 PM</td>
<td>Sac1 selectively regulates trafficking of cell surface adhesion molecules in the developing Drosophila eye Jude Bird (Toronto, Canada)</td>
<td>Wednesday, July 8, 2015</td>
</tr>
<tr>
<td>4:00 PM–4:15 PM</td>
<td>Regulation of endocytic ARGEFs by membranes Mahel Zeghouf (Cachan, France)</td>
<td>Wednesday, July 8, 2015</td>
</tr>
<tr>
<td>4:15 PM–4:30 PM</td>
<td>PI3P-dependent ER-endosome contacts in endosome positioning and protrusion outgrowth Harald Stenmark (Oslo, Norway)</td>
<td>Wednesday, July 8, 2015</td>
</tr>
<tr>
<td>4:30 PM–5:00 PM</td>
<td>Chemical biology tools to manipulate lipid signaling in intact cells Carsten Schultz (Heidelberg, Germany)</td>
<td>Wednesday, July 8, 2015</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Estrel Hall C</th>
<th>Struct Biol S4-II SYMPOSIUM</th>
<th>Wednesday, July 8, 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00 PM–5:00 PM</td>
<td>Monitoring Protein Conformational Dynamics and Movement (Part II)</td>
<td>Wednesday, July 8, 2015</td>
</tr>
<tr>
<td>Chairs:</td>
<td>Ilme Schlichting (Heidelberg, Germany) Gerhard Wagner (Boston, United States of America)</td>
<td>Wednesday, July 8, 2015</td>
</tr>
<tr>
<td>3:00 PM–3:30 PM</td>
<td>Ultra-fast time-resolved serial femtosecond crystallography on myoglobin ligand dissociation Ilme Schlichting (Heidelberg, Germany)</td>
<td>Wednesday, July 8, 2015</td>
</tr>
<tr>
<td>3:30 PM–4:00 PM</td>
<td>Single-molecule imaging of cytoplasmic dynein in vivo Iva Tolić (Zagreb, Croatia)</td>
<td>Wednesday, July 8, 2015</td>
</tr>
<tr>
<td>4:00 PM–4:15 PM</td>
<td>Proteins in vivo: From the test tube to the cell Simon Ebbinghaus (Bochum, Germany)</td>
<td>Wednesday, July 8, 2015</td>
</tr>
<tr>
<td>4:15 PM–4:30 PM</td>
<td>New insights of the reconstitution/activation process of the soluble glucose dehydrogenase with PQQ by combining crystallography, fluorescence quenching and stopped-flow experiments Claire Stines-Chaumeil (Pessac, France)</td>
<td>Wednesday, July 8, 2015</td>
</tr>
<tr>
<td>4:30 PM–5:00 PM</td>
<td>Atomistic Simulation of Single Molecule Experiments: Molecular Machines and a Dynasome Perspective Helmut Grubmueller (Göttingen, Germany)</td>
<td>Wednesday, July 8, 2015</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Convention Hall A/B</th>
<th>PLENARY LECTURE</th>
<th>Wednesday, July 8, 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:00 PM–7:00 PM</td>
<td>Datta Lecture</td>
<td>Wednesday, July 8, 2015</td>
</tr>
<tr>
<td>Chair:</td>
<td>Claudia Rodriguez-Pousada (Lisbon, Portugal)</td>
<td>Wednesday, July 8, 2015</td>
</tr>
<tr>
<td></td>
<td>Laudation</td>
<td>Wednesday, July 8, 2015</td>
</tr>
<tr>
<td></td>
<td>Protein folding as a driving force in evolution from basic biology to human medicine</td>
<td>Wednesday, July 8, 2015</td>
</tr>
<tr>
<td></td>
<td>Susan L. Lindquist (Cambridge, United States of America)</td>
<td>Wednesday, July 8, 2015</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Convention Hall A/B</th>
<th>OTHERS</th>
<th>Wednesday, July 8, 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 PM–11:00 PM</td>
<td>Networking Evening at Frannz Restaurant</td>
<td>Wednesday, July 8, 2015</td>
</tr>
</tbody>
</table>
### MAIN PROGRAM

**Thursday, July 9, 2015**

- **Convention Hall A/B**
  - 8:30 AM-11:00 AM: Symposium Functional Glycobiology – from Mechanism to Disease
  - 8:30 AM-11:00 AM: Symposium RNA Processing and Modifications
  - 8:30 AM-11:00 AM: Symposium Functional Networks Regulating Cellular Stress Responses and Ageing
  - 8:30 AM-11:00 AM: Symposium Control of Neuronal Function by Regulating Protein Homeostasis
  - 8:30 AM-11:00 AM: Symposium Extracellular and Intracellular Regulation of Cellular Growth Control
  - 8:30 AM-11:00 AM: Symposium Advances in Structural Biology – from Subcellular to Molecular Resolution

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 AM</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>11:30 AM-12:00 PM</td>
<td>Poster Session/Prizes</td>
</tr>
<tr>
<td>12:00 PM</td>
<td>Plenary Lecture: The EMBO Lecture</td>
</tr>
<tr>
<td>1:00 PM</td>
<td>Closing Remarks &amp; Farewell</td>
</tr>
</tbody>
</table>

- **Chern Blot S3 SYMPOSIUM**
  - 8:30 AM-11:00 AM: Functional Glycobiology – from Mechanism to Disease
    - **Chairs:** Markus Aebi (Zurich, Switzerland)
    - Rüdiger Horstkorte (Halle, Germany)
    - **Talks:**
      - 8:30 AM-9:00 AM: Fiber-degrading gut bacteria: Of rumen and human
        Ed Bayer (Rehovot, Israel)
      - 9:00 AM-9:30 AM: Interfering with sialylation through metabolic sialic acid engineering or inhibition of sialyl transferases: A novel implication for cancer therapy.
        Rüdiger Horstkorte (Halle, Germany)
      - 9:30 AM-9:45 AM: Collagen glycation and deglycation. Candidate locations of collagen non-enzymatic glycation and characterization of an Amadoriase enzyme for its prevention
        Alfonso Gautieri (Milan, Italy)
      - 9:45 AM-10:00 AM: Structure, function and biosynthesis of a new class of human N-glycosylated neutrophilic proteins in pathogen-infected sputum
        Morten Thaysen-Andersen (Sydney, Australia)
      - 10:00 AM-10:30 AM: The making of N-glycoproteins
        Markus Aebi (Zurich, Switzerland)
      - 10:30 AM-11:00 AM: The HIV glycan shield as a target for broadly neutralizing antibodies
        Katherine Doores (London, United Kingdom)

- **ECC Room 1**
  - 8:30 AM-11:00 AM: RNA Processing and Modifications
    - **Chairs:** Mark Helm (Mainz, Germany), Chuan He (Chicago, United States of America)
    - **Talks:**
      - 8:30 AM-9:00 AM: Ribonuclease Df53 shapes the RNA polymerase II transcriptome in humans
        Andrzej Dzembowski (Warsaw, Poland)
      - 9:00 AM-9:30 AM: Biogenesis and function of circRNAs
        Sebastian Kadener (Jerusalem, Israel)
      - 9:30 AM-9:45 AM: Assembly of complex ribosomes from short RNA oligomer pools
        Hannes Mutschler (Cambridge, United Kingdom)
      - 9:45 AM-10:00 AM: LC-MS analysis for the qualitative and quantitative analysis of cellular modified NAD-RNA
        Gabriele Hübner (Heidelberg, Germany)
      - 10:00 AM-10:30 AM: RNA modification – detection, quantification, and function
        Mark Helm (Mainz, Germany)
      - 10:30 AM-11:00 AM: Reversible RNA methylation in gene expression regulation
        Chuan He (Chicago, United States of America)
Thursday, July 9, 2015

Scientific Program

**ECC Room 2**

### Sys Biol S4 SYMPOSIUM

**8:30 AM–11:00 AM Functional Networks Regulating Cellular Stress Response and Ageing**

**Chairs:** Karl Lennard Rudolph (Jena, Germany)

- **Role of genome instability in ageing**
  - Peter Lansdorp (Groningen, Netherlands)

- **Stem Cells and Aging: lessons from Drosophila**
  - Heinrich Jasper (Novato, United States of America)

- **A cell culture comparative biology approach to study mechanisms of genomic stability and their relevance for species longevity: a newer interpretation of 53BP1 nuclear foci**
  - Eleonora Croco (Bologna, Italy)

- **Redox proteomics: from one residue modification to uncovering global redox-mediated cellular processes**
  - Dana Reichmann (Jerusalem, Israel)

- **Senescent cells shorten health and lifespan**
  - Jan van Deursen (Rochester, United States of America)

- **Aging associated stem cell mutation as driving factors for tissue dysfunction and cancer**
  - Karl Lennard Rudolph (Jena, Germany)

**ECC Room 3**

### Mol Neu S5 SYMPOSIUM

**8:30 AM–11:00 AM Control of Neuronal Function by Regulating Protein Homeostasis**

**Chairs:** Claudia Bagni (Leuven, Belgium)

- **Roles of Nedd4 Family E3 Ubiquitin Ligases in Neuronal Development**
  - Hiroshi Kawabe (Göttingen, Germany)

- **Synaptic tenacity – beyond one molecule or another**
  - Noam Ziv (Haifa, Israel)

- **Loss of the neuron-specific F-box protein FBXO41 models an ataxia-like phenotype in mice with developmental defects and degeneration in the cerebellum**
  - Judith Stegmueller (Göttingen, Germany)

- **Activity-dependent regulation of proteasome at presynapse**
  - Anna Fattova (Magdeburg, Germany)

- **Local protein synthesis shapes synapses: insights into FXS and ASD**
  - Claudia Bagni (Leuven, Belgium)

**Estrel Hall A**

### Mem Biol S4 SYMPOSIUM

**8:30 AM–11:00 AM Extrinsic and Intrinsic Regulation of Cellular Growth Control**

**Chairs:** Bart Vanhaesebroeck (London, United Kingdom)

- **Direct and indirect actions of PI3K in cancer cell growth control**
  - Bart Vanhaesebroeck (London, United Kingdom)

- **Consequences of isolated genetic perturbation of Type IA phosphatidylinositol-3-kinase activity in humans**
  - Robert Semple (Cambridge, United Kingdom)

- **Control of nutrient signaling and proteostasis by PI3K-C2-mediated PI(3,4)P2 synthesis**
  - Andrea Marat (Berlin, Germany)

- **Activation of CXC chemokine receptor 4 by lactoferrin**
  - Yoshiharu Takayama (Tsukuba, Japan)

- **Molecular insights into BMP signaling – cell context matters**
  - Petra Knuts (Berlin, Germany)

- **Mitofusion proteins in hypothalamic POMC neurons regulate systemic energy balance and metabolism**
  - Marc Claret (Barcelona, Spain)

**Estrel Hall C**

### Struct Biol S5 SYMPOSIUM

**8:30 AM–11:00 AM Advances in Structural Biology – from Subcellular to Molecular Resolution**

**Chairs:** John Briggs (Heidelberg, Germany)

- **The tripartite degron model: the role of structural disorder in protein quality control**
  - Peter Tompa (Brussels, Belgium)

- **Studying plasma membrane bioactivity with super-resolution STED microscopy**
  - Christian Eggeling (Oxford, United Kingdom)

- **Atom resolution structure of non-crystalline membrane proteins in lipid bilayers by magic-angle spinning nuclear magnetic resonance**
  - Loren Andreas (Villeurbanne, France)

- **Structure of the bacteriophage phi6 nucleocapsid solved to 3.9 Å resolution using electron cryomicroscopy**
  - Zhaoyang Sun (Oxford, United Kingdom)

- **Structure in situ – (cryo-)electron microscopy of enveloped viruses and coated vesicles**
  - John Briggs (Heidelberg, Germany)

- **Watching structure and dynamics of proteins by high-precision FRET in vitro and in vivo**
  - Claus A. M. Seidel (Düsseldorf, Germany)

**11:00 AM–11:30 AM COFFEE BREAK**
Thursday, July 9, 2015

**Convention Hall A/B**

**OTHERS**

11:30 AM–12:00 PM

**Award Ceremony**

Otto Meyerhof Prize

Chair: Roger Goody (Dortmund, Germany)

11:30 AM–11:35 AM

Laudation

11:35 AM–12:00 PM

Design of Protein Folds and Functions

Birte Höcker (Tübingen, Germany)

12:00 PM–1:00 PM

**PLENARY LECTURE**

The EMBO Lecture

Chair: Ann Ehrenhofer-Murray (Berlin, Germany)

1:00 PM–1:15 PM

Closing Remarks & Farewell

**Convention Hall A/B**

**OTHERS**

Overview

---

Sunday, July 5 & Monday, July 6

**Poster Session 1**

P02 Chromatin Structure and Epigenetic Modifications and Maintenance of the Genome

P03 Turning Signals into Messages – the Complexity of Gene Regulation

P04 Translational Control and Protein Turnover

P08 Organelle Dynamics and Communication

P09 Autophagy and Degradation

P10 Redox-Regulation of Biological Activities

P14 Probing Cellular Function with Small Molecules

P15 Targeted Cancer Therapy

P17 RNA-Based Disease Mechanism and Therapy

P20 Neuronal Ion Channels and their Role in Disease

P21 Mechanisms of Nervous System Development and Regeneration

P22 Degeneration and Ageing of the Nervous System

P27 Molecular Clocks

P28 Comprehensive Models of Metabolism and Signaling

P32 Mechanisms of Membrane Transport

P33 Channels and Transporters

P34 Protein Mediated Membrane Deformation and Penetration

---

Tuesday, July 7 & Thursday, July 8

**Poster Session 2**

P03 Turning Signals into Messages – the Complexity of Gene Regulation

P05 RNA Processing and Modifications

P06 Non-Coding RNAs in Gene Regulation

P10 Redox-Regulation of Biological Activities

P11 Extrinsic and Intrinsic Regulation of Cellular Growth Control

P12 Lipid Signaling and Dynamics

P15 Targeted Cancer Therapy

P16 Functional Glycobiology – from Mechanism to Disease

P18 Signal Transduction in Tumor Development, Differentiation and Immune Escape

P21 Mechanisms of Nervous System Development and Regeneration

P23 Molecular Architecture and Assembly of the Synapse

P24 Control of Neuronal Function by Regulating Protein Homeostasis

P26 Interpecies Communication

P29 Functional Networks Regulating Cellular Stress Responses and Ageing

P30 Systems Biology in Stem Cells

P33 Channels and Transporters

P35 Monitoring Protein Conformational Dynamics and Movement

P36 Advances in Structural Biology – from Subcellular to Molecular Resolution

P38 Education & Training
**FEBS Publications**

**Poster Prizes**

“Poster of the Day” prizes for outstanding scientific posters at the FEBS Congress will be awarded by The FEBS Journal, FEBS Letters, Molecular Oncology and FEBS Open Bio at the poster sessions on Sunday July 5, Monday July 6, and Wednesday July 8, and from these, four overall journal poster prize winners will be selected to receive a prize of €200 at the Closing Session. For the selection of the Posters of the Day, a shortlist of approximately 30 contenders for each poster session will be drawn up by the Congress Organizing Committee based on their assessment of abstracts submitted to the event. At the Congress poster sessions, a jury of FEBS journal editors and GBM-selected group leaders will examine the presented posters from this shortlist, looking for high-quality and exciting unpublished research presented in a clear and appealing manner. Their scores will determine the Poster of the Day awards, and the overall journal poster prize winners for the Congress will be selected from the Posters of the Day by editors of each FEBS journal. The Posters of the Day will be announced shortly before the end of poster sessions on the Sunday July 5 Monday July 6 and Wednesday July 8 at 14:45 PM near the FEBS booth and will be displayed in a special area of the exhibition hall for the rest of the event.

**FEBS Education Poster Prize**

A prize of free registration to the next FEBS Congress (Kusadasi, Turkey; September 3–8, 2016) will be awarded to the best poster in the poster session on Education, Training, and Career Planning in Molecular Life Sciences’ on Tuesday July 7, as judged by a jury formed of members of the FEBS Education Committee.

---

**Poster Prizes**

**Poster Session 1**

**Foyer**

<table>
<thead>
<tr>
<th>8:30 AM–7:30 PM</th>
<th>Poster Session 1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P02</strong></td>
<td>Chromatin Structure and Epigenetic Modifications and Maintenance of the Genome</td>
</tr>
<tr>
<td><strong>P02-001-SH</strong></td>
<td>The effect of histone modifications and DNA superhelicity on nucleosome stability Gábor Szabó (Debrecen, Hungary)</td>
</tr>
<tr>
<td><strong>P02-002-SH</strong></td>
<td>How do transcription factors “know” where to go in the genome? Sebastian Meljng (Berlin, Germany)</td>
</tr>
<tr>
<td><strong>P02-003-SH</strong></td>
<td>Signal regulated localization of a mutagenic protein complex at the lgh locus Thomas Grundström (Umeå, Sweden)</td>
</tr>
<tr>
<td><strong>P02-004-SH</strong></td>
<td>The sequence requirements for base J in DNA Piet Borst (Amsterdam, Netherlands)</td>
</tr>
<tr>
<td><strong>P02-005-SP</strong></td>
<td>Investigation of the G4 interactome using human protein microarrays Slava Severov (Moscow, Russian Federation)</td>
</tr>
<tr>
<td><strong>P02-006-SP</strong></td>
<td>Analysis of XCI mosaicism in the liver from a patient with OTC deficiency Dita Musáliková (Prague, Czech Republic)</td>
</tr>
<tr>
<td><strong>P02-007-SP</strong></td>
<td>DNA structural transitions upon dehydration of DNA solutions revealed by FTIR spectroscopy Sofía Paston (St. Petersburg, Russian Federation)</td>
</tr>
<tr>
<td><strong>P02-008-SP</strong></td>
<td>PRE-PKCI32B: a Human PRE with a difference? Jayenir Mani (Delhi, India)</td>
</tr>
<tr>
<td><strong>P02-009</strong></td>
<td>The toxic effect of calcium carbide on DNA damage in banana Khaled Ali (Aden, Yemen)</td>
</tr>
<tr>
<td><strong>P02-010</strong></td>
<td>Oxidative stress induces LINE-1 hypomethylation through depletion of S-adenosylmethionine Chanchai Boonla (Bangkok, Thailand)</td>
</tr>
<tr>
<td><strong>P02-011</strong></td>
<td>Cell cycle arrest mediates Rb geneMethylation patterns in APL patient Ali Kheilghan (Garmen, Islamic Republic of Iran)</td>
</tr>
<tr>
<td><strong>P02-012</strong></td>
<td>Epigenetic regulation is a determinant of the cell line specific expression of the UGP glycosyltransferase 3A1 and 3A2 genes Alex Haines (Adelaide, Australia)</td>
</tr>
<tr>
<td><strong>P02-013</strong></td>
<td>Epigenetic changes over long-term evolution of breast tumor Dan Li (Shanghai, People’s Republic of China)</td>
</tr>
<tr>
<td><strong>P02-014</strong></td>
<td>Acetylation on the nucleoprotein of Influenza A virus Daisuke Kawayama (Tokushima City, Japan)</td>
</tr>
<tr>
<td><strong>P02-015</strong></td>
<td>The impact of mm-waves on the level of DNA methylation on the plant model Liya Mihashbyian (Yerevan, Armenia)</td>
</tr>
<tr>
<td><strong>P02-016</strong></td>
<td>Investigation of DNA methylation and H4 hyperacetylation dynamics in the SS RNA genes family by chromatin immunoprecipitation assay Claudia Buicse (Bucharest, Romania)</td>
</tr>
<tr>
<td><strong>P02-017</strong></td>
<td>Retinoic acid induced Hoxa5 is negatively regulated by CTCF in F9 teratocarcinoma cells Ji Hoon Oh (Seoul, Republic of Korea)</td>
</tr>
<tr>
<td><strong>P02-018</strong></td>
<td>Genotoxicity induced by heavy metals and protective effect of rosemary and green tea extracts Nahid Elna’ativ (Tehran, Islamic Republic of Iran)</td>
</tr>
<tr>
<td><strong>P02-019</strong></td>
<td>DNA methylation contributes to constitutive telomerase gene expression by inhibition of KLF2 binding to a promoter element in huuman T cells Mizuyama Nakamura (Tokyo, Japan)</td>
</tr>
</tbody>
</table>
High glucose-induced NADPH oxidase expression and activity is mediated by histone acetylation/dereacetylation mechanisms in vascular smooth muscle cells.

Adrian Manea (Bucharest, Romania)

Role of AhR-regulated Alu transposon in insulation and chromatin structure

Francisco Javier González Rico (Badajoz, Spain)

Histone deacetylase inhibitor, CG200745, attenuates transcriptional activity of mineralocorticoid receptor through its acetylation

Spyros Georgatos (Ioannina, Greece)

Evaluation of luminometric methylation assay for DNA methylation patterns and histone modifications

Julieta Sepúlveda (Punta Arenas, Chile)

The study of DNA methylation based on luminometric methylation assay in E10edos canadensis under different salinity

Natalja Skute (Daugavpils, Latvia)

Evaluation of luminoetric methylation assay for DNA methylation study in typical hydrobiont clonal population (Daphnia) under climate temperature changes

Natalja Skute (Daugavpils, Latvia)

Nucleosome occupancy and epigenetic modification in the alternative splicing site of Kras gene in colorectal cancer

Angela Leticia Ríos-Campos (Valencia, Spain)

Accessory domains of eukaryotic abasic site endonucleases and thymine-DNA glycosylases: Their evolution and possible role in epigenetic regulation

Natalja Škute (Daugavpils, Latvia)

Understanding the role of CFP1 in regulating chromatin modification and transcription at CGI island associated genes

Vincenzo Di Cerbo (Oxford, United Kingdom)

Controlling the methylation writer: regulation of Dnmt3a DNA methyltransferase by oligomisation

Renata Jurkowska (Stuttgart, Germany)

Expanding the substrate scope of the Jumonji C histone demethylases

Spyros Georgatos (Ioannina, Greece)

The study of DNA methylation based on luminometric methylation assay

Natalja Škute (Daugavpils, Latvia)

Evaluation of luminometric methylation assay for DNA methylation study in typical hydrobiont clonal population (Daphnia) under climate temperature changes

Natalja Skute (Daugavpils, Latvia)

The role of the understanding of CFP1 in regulating chromatin modification and transcription at CGI island associated genes

Spyros Georgatos (Ioannina, Greece)

Controlling the methylation writer: regulation of Dnmt3a DNA methyltransferase by oligomisation

Renata Jurkowska (Stuttgart, Germany)

Expanding the substrate scope of the Jumonji C histone demethylases

Louise Wahlport (Oxford, United Kingdom)

Gene expression study in mouse embryonic stem cells modulated by RUNX1

Spyros Georgatos (Ioannina, Greece)

Controlling the methylation writer: regulation of Dnmt3a DNA methyltransferase by oligomisation

Spyros Georgatos (Ioannina, Greece)

Expanding the substrate scope of the Jumonji C histone demethylases

Louise Wahlport (Oxford, United Kingdom)

Gene expression study in mouse embryonic stem cells modulated by RUNX1

Spyros Georgatos (Ioannina, Greece)

Controlling the methylation writer: regulation of Dnmt3a DNA methyltransferase by oligomisation

Spyros Georgatos (Ioannina, Greece)

Expanding the substrate scope of the Jumonji C histone demethylases

Louise Wahlport (Oxford, United Kingdom)

Gene expression study in mouse embryonic stem cells modulated by RUNX1

Spyros Georgatos (Ioannina, Greece)

Controlling the methylation writer: regulation of Dnmt3a DNA methyltransferase by oligomisation

Spyros Georgatos (Ioannina, Greece)

Expanding the substrate scope of the Jumonji C histone demethylases

Louise Wahlport (Oxford, United Kingdom)

Gene expression study in mouse embryonic stem cells modulated by RUNX1

Spyros Georgatos (Ioannina, Greece)
P03-003-SP

- A PARP1-ERK2 synergism is required for the induction of synaptic plasticity
  Marko Cohen-Armon (Tel-Aviv, Israel)

P03-004-SP

- DNA damage response: Mechanism of transcriptional regulation by p53
  leading to cell cycle arrest
  Kurt Engeland (Leipzig, Germany)

P03-006-SP

- Programmed translation arrest controlling antibiotic resistance genes relies on the sequence context of the nascent peptide stalling domain
  Nora Vanquert-Laskop (Chicago, United States of America)

P03-007

- Unraveling the members of a DNA-binding complex of a bacterial halobacid operon
  Jimmy Tsang (Hong Kong, People's Republic of China)

P03-008

- Regulation of Cyp1 Ta1: In the liver - an example for a general impact of morphogenic signaling on gender-specific gene expression?
  Christiane Rennert (Leipzig, Germany)

P03-009

- Expression of genes, encoding enzymes of auxin biosynthesis in Arabidopsis plants with altered ubiquitin signaling
  Daria Romanyuk (Saint-Petersburg, Russian Federation)

P03-011

- The aetiology of genetic, acquired and sporadic prion diseases
  Neda Bajrami (Tirana, Albania)

P03-012

- Indirect regulation of Claudin 6 gene expression by triiodothyronine in estrogen-positive breast cancer cell line
  Sandra Consoli (São Roque, Brazil)

P03-013

- Knockin’ on pHeaven’s Door: A fast and reliable high-throughput-compatible zero-background cloning procedure
  Sandy Halmann (Berlin, Germany)

P03-014

- Thrombin-induced IL-8/CXCL8 expression is mediated by ORMDL3, ATF6, and AP-1 signaling pathways in human lung epithelial cells
  Bing-Chang Chen (Taipei, Republic of China)

P03-015

- Epidermal growth factor receptor promotes prostate cancer bone metastasis through down-regulation of miR-1 and activation of TWIST1
  Yi-Fen Hong (KaoHSIung, Republic of China)

P03-016

- Wnt/β-catenin signaling pathway does not regulate c-myc gene expression in 42GPA9 (mouse adult Sertoli) cell line
  Camila López (Valdivia, Chile)

P03-017

- Structure and function of home-responsive transcriptional regulator HHR Shegachti-Aono (Hokkaido, Japan)

P03-018

- Protein kinase OCI mediates cross talk between auxin- and salicylic acid-signaling pathways in Arabidopsis
  M. Carmen Martinez (Barcelona, Spain)

P03-019

- A regulatory SNP modifies Cystic Fibrosis by disrupting NF-KB complexes binding on HBS CHDIEBEE Awah (Hannover, Germany)

P03-020

- Investigating the pleiotropic biochemical effect of warfarin
  Humay Shafiq (Islamabad, Pakistan)

P03-021

- Intestinal inflammation alters the expression of HDL genes in human and mouse cells by different mechanisms
  Dimitris Kardassis (Heraion, Greece)

P03-022

- Gene expression profile of Thermoplasma volcanium GSS1 under mild and severe oxidative stress
  Sema Zabcic (Ankara, Turkey)

P03-023

- Modulation of the host cell RNA splicing programm by the gastric pathogen Helicobacter pylori
  Fritzgo Główkis (Berlin, Germany)

P03-024

- ZNF224 is a novel transcriptional repressor of c-myc oncogene in Chronic Malignous Leukemia
  Gaetano Sodaro (Naples, Italy)

P03-025

- Histone deacetylase 3 and 4 complex activates transcriptional activity of mineralocorticoid receptor
  Hae-Ahm Lee (Daegu, Republic of Korea)

P03-026

- A case-control study of type 2 diabetes mellitus
  Diza Kofer (Budapest, Hungary)

P03-027

- Cosein kinase 18 regulates Hypoxia Inducible Factor 2α by direct phosphorylation
  Eviathira Paspou (Larissa, Greece)

P03-028

- Mechanism of atypical pro-death signaling mediated by the Heat Shock Factor 1
  Joanna Korfert (Glwice, Poland)

P03-029

- Cadmium, cobalt and nickel inhibit sequence-specific DNA binding of p63 and p73 proteins in vitro and in cells
  Pavla Bazantova (Ostrava, Czech Republic)

P03-030

- Expression of CacyBP/SIP gene in colon cancer HCT116 and neuroblastoma NB2a cells
  Anna Ribe (Warsaw, Poland)

P03-031

- Epidermal growth factor induced intestinal sodium-gluconate cotransporter 1 gene expression through activation of CAMP response element binding protein
  Tsu-Chung Chang (Taipa, Republic of China)

P03-032

- Combined interactions of plant homeoedomain and chromoedomain regulate NLR4 activity at DNA double-strand breaks
  Wei-Pin Su (Tainan, Republic of China)

P03-033

- Atf5 regulates mitotic entry and mitotic spindle assembly by controlling activation of both Aurora-A and Polo-like Kinase 1
  Frithjof Glowinski (Berlin, Germany)

P03-034

- Search for new genes involved in the integrated stress response
  Alisa Garaeva (Moscow, Russian Federation)

P03-035

- Functional investigations of the monogenic diabetes gene HNF1A identify rare variants as risk factors for type 2 diabetes in a general population
  Laeya Najmi (Bergen, Norway)

P03-036

- Angiotensin converting enzyme II deficiency accelerates the progression of COPD via irregular signaling STAT3 phosphorylation
  Chih-Sheng Lin (Hsinchu, Republic of China)

P03-037

- Histone deacetylase inhibition (HDACi), but not an mineralocorticoid receptor (MR) antagonist spironolactone, attenuates transcriptional activity of activating mutant MR810L
  Seol Hee Kang (Daegu, Republic of Korea)

P03-038

- Signal integration by the CYP1A1 promoter – a quantitative study
  Albert Braeuning (Berlin, Germany)

P03-039

- In response to alien RNA polymerase: bacteriophage T7 evolves promoters by their electrostatic properties
  Alexander Osipov (Pushchino, Russian Federation)

P03-040

- Evolutionary dynamics of DNA-binding sites and direct target genes of a floral master regulatory transcription factor
  Jose Muino (Berlin, Germany)

P03-041

- The nuclear oxigenase Jmjd6 regulates macrophage host responses
  Andreas Longeling (Easter Bush, United Kingdom)
<table>
<thead>
<tr>
<th>POSTER SESSIONS</th>
<th>POSTER SESSIONS</th>
</tr>
</thead>
</table>
| **P03-042** | □ A quantitative study of dual signal integration by the Cyp1a1 promoter  
Pascal Schultess (Berlin, Germany) |
| **P03-043** | □ Disturbance of gene expression in primary human hepatocytes by hepatotoxic pyrrolizidine alkaloids: a whole genome transcriptomics analysis  
Claude Luckert (Berlin, Germany) |
| **P03-044** | □ Bilirubin neurotoxicity involves inflammatory response via ER stress  
Mohammed Gazzia (Rivoli, Italy) |
| **P03-045** | □ Transactivation of the human ADAMTS-2 gene promoter through proinflammatory cytokine TNF-a in osteoblast-like cells  
Feray Kockar (Balikesir, Turkey) |
| **P03-046** | □ Transcription of F5SMO4 gene is upregulated in hypoxia in prostate cancer cells  
Feray Kockar (Balikesir, Turkey) |
| **P03-047** | □ High fructose diet up-regulates insulin and its downstream signaling components in abdominal omentum tissues: Effects of resveratrol  
Hicret Yalın (Karaman, Turkey) |
| **P03-048** | □ Strong E. coli mBB P1 promoter mutants possess pronounced electrostatic up-elements  
Alexander Osypov (Pushchino, Russian Federation) |
| **P03-049** | □ TGF-β upregulates URG-4/URGCP gene expression in Hepatoma cells  
Feray Kockar (Balikesir, Turkey) |
| **P03-050** | □ Response of novel Bacillus marmorans GBME 72T to extreme conditions: Poly (3-hydroxybutyrate)  
Tuğba Özgören (Istanbul, Turkey) |
| **P03-051** | □ Electrostatic properties of Mycobacterium leprae genes start to reflect massive pseudogenization and strictly intracellular parasitic life  
Alexander Osypov (Pushchino, Russian Federation) |
| **P03-052** | □ A functional distinction between SAFB1 and SAFB2 via their distal Gly/Arg rich C-terminal domain  
Sotiria Draikour (Larisa, Greece) |
| **P03-053** | □ Bending and electrostatics in transcription regulation are evident in genes starts in the context of organisms temperature preferences  
Alexander Osypov (Pushchino, Russian Federation) |
| **P03-054** | □ The determination of effect of some antibiotics on paraaxonase 2 (PON2) enzyme activities in human macrophages cell  
Ayla Solmaz Avcıkurt (Balikesir, Turkey) |
| **P03-055** | □ Suppression of RUNK1-RUNK1T1 gene expression leads to activation of both survival and proliferation signaling in acute myeloid leukemia cells  
Pavel Spirin (Moscow, Russian Federation) |
| **P03-056** | □ Rho-independent terminators may rely on electrostatics in their function  
Alexander Osypov (Pushchino, Russian Federation) |
| **P03-057** | □ Sex description of cells supplied by commercial vendors  
Suk Kyeong Lee (Seoul, Republic of Korea) |
| **P03-058** | □ Paraaxonase1 gene polymorphisms and serum paraaxonase activity in Turkish non-Hodgkin lymphoma patients  
Ercan Cinar (Adana, Turkey) |
| **P03-059** | □ Genes starts electrostatic profiles of phages resemble that of their hosts in a wide variety of prokaryotic taxa  
Alexander Osypov (Pushchino, Russian Federation) |
| **P03-060** | □ Systematic analysis of HIK27ac ChIP-seq for identification of transcriptional regulators and their target genes  
Su Wang (Shanghai, People’s Republic of China) |
| **P04-001-SH** | □ Functional transcription factor binding sites from IL2Ra locus that contain SNPs associated with autoimmune pathologies  
Anton Shvarts (Moscow, Russian Federation) |
| **P04-002-SH** | □ Characterization of genomic island responsible for the increased thermotolerance in Cronobacter strains  
Hana Drahotovska (Bratislava, Slovakia) |
| **P04-003-SH** | □ Guanine-rich sequence-binding factor 1 binds to G-quadruplex structures in RNA  
Sajad Sofi (Berlin, Germany) |
| **P04-004-SH** | □ Dynamic transitions in gene expression states during neuronal differentiation  
Elena Turis Nigla (Berlin, Germany) |
| **P04-005-SH** | □ Sec16 alternative splicing controls the adaptation of the COP1 machinery to higher secretory cargo load upon T-cell activation  
Iliu Wihan (Berlin, Germany) |
| **P04-006-SH** | □ Inhibition of ERK1 signaling of endoplasmic reticulum stress affects the expression of TNF receptor genes in U87 glioma cells  
Iryna Kryvydka (Kyiv, Ukraine) |
| **P04-007-SH** | □ FGF21 is down regulated by fasting in mice under leucine deficient diet  
Albert Pérez Martí (Barcelona, Spain) |
| **P04-008-SH** | □ Sumoylation of Histone deacetylase 2 regulates tumor relevant gene expression patterns  
Tobias Wagner (Jena, Germany) |
| **P04-009-SH** | □ CK16 inhibits HIF-1-dependent induction of Ipin-1 and reduces both lipid accumulation and cell proliferation under hypoxia  
Mark Kouri (Larisa, Greece) |
| **P04-010-SH** | □ RNA half lives and transcriptional delays determine transcript dynamics in response to MAP kinase signalling  
Florian Uhlir (Berlin, Germany) |
| **P04-011-SH** | □ Investigating a model of combinatorial gene regulation by FOX and E-box binding factors in FLT3-ITD Acute Myeloid Leukaemia  
Liam Naal Gladon (Birmingham, United Kingdom) |

---

**P3-061** | □ Functional transcription factor binding sites from IL2Ra locus that contain SNPs associated with autoimmune pathologies  
Anton Shvarts (Moscow, Russian Federation) |
| **P3-062** | □ Characterization of genomic island responsible for the increased thermotolerance in Cronobacter strains  
Hana Drahotovska (Bratislava, Slovakia) |
| **P3-063** | □ Guanine-rich sequence-binding factor 1 binds to G-quadruplex structures in RNA  
Sajad Sofi (Berlin, Germany) |
| **P3-064** | □ Dynamic transitions in gene expression states during neuronal differentiation  
Elena Turis Nigla (Berlin, Germany) |
| **P3-065** | □ Sec16 alternative splicing controls the adaptation of the COP1 machinery to higher secretory cargo load upon T-cell activation  
Iliu Wihan (Berlin, Germany) |
| **P3-066** | □ Inhibition of ERK1 signaling of endoplasmic reticulum stress affects the expression of TNF receptor genes in U87 glioma cells  
Iryna Kryvydka (Kyiv, Ukraine) |
| **P3-067** | □ FGF21 is down regulated by fasting in mice under leucine deficient diet  
Albert Pérez Martí (Barcelona, Spain) |
| **P3-068** | □ Sumoylation of Histone deacetylase 2 regulates tumor relevant gene expression patterns  
Tobias Wagner (Jena, Germany) |
| **P3-069** | □ CK16 inhibits HIF-1-dependent induction of Ipin-1 and reduces both lipid accumulation and cell proliferation under hypoxia  
Mark Kouri (Larisa, Greece) |
| **P3-070** | □ RNA half lives and transcriptional delays determine transcript dynamics in response to MAP kinase signalling  
Florian Uhlir (Berlin, Germany) |
| **P3-071** | □ Investigating a model of combinatorial gene regulation by FOX and E-box binding factors in FLT3-ITD Acute Myeloid Leukaemia  
Liam Naal Gladon (Birmingham, United Kingdom) |

---

**P04-001-SH** | □ Functional characteristics of a translational silencing element in the mRNA of iNOS  
Georgie Behrens (Hannover, Germany) |
| **P04-002-SH** | □ A short internal ORF in the leaf necrosis associated factor gene encodes a novel peptide controlling maternal mRNA accumulation  
Ekaterina Sheshukova (Moscow, Russian Federation) |
| **P04-003-SH** | □ Determining protein-protein interactions between translation initiation factors eIF2 and eIF2B  
Patrick Murphy (Sheffield, United Kingdom) |
| **P04-004-SH** | □ mTORC2 balances Akt activation and eIF2a serine 51 phosphorylation to promote survival under stress  
Antonis Koromilas (Montreal, Canada) |
| **P04-005-SH** | □ Mechanistic dissection of the early phase of UspRNP biogenesis uncovers a role of ribosomes in assembly and RNP homeostasis  
Rajalaksmin Meduri (Würzburg, Germany) |
| **P04-006-SH** | □ The Ubiquitin-Proteasome System as a central regulator of cellular antioxidant responses, mitostasis and proteostasis  
Albert Pérez Martí (Barcelona, Spain) |
| **P04-007-SH** | □ Cardiac sympathetic neuron distribution controls myocardial cell size by local modulation of cardiomycocyte proteostasis  
Nicola Flancia (Padova, Italy) |

---
Melanogenesis: different molecular mechanisms are involved in cutaneous hyperpigmentation by inhibiting protein synthesis.

The catalytic core of HIV-1 integrase is essential for the binding of integrase to its cellular co-factor Ku70.

Investigation of factors influencing the heterologous production of polyoma virus-like particles in yeast.

A complex structure of human EPRS and AIMP2 GST-like domains to form an eEF1B complex and interact with aminoacyl-tRNA synthetases like domain to form an eEF1B complex and interact with aminoacyl-tRNA synthetases like domain to form an eEF1B complex and interact with aminoacyl-tRNA synthetases.

Nup50, a novel key factor required for postmitotic assembly of nuclear pore complexes.

Use of fungi as biological decontamination of organophosphate compounds.

miRNAs targeting MPRs and AP1 subunits regulate lysosomal function.

The role of Septin 1 in maintaining the Golgi architecture.

Endosomal control of tetrassin-dependent functional hubs at the plasma membrane.

Characterization of the human FDX14 microtubule interaction.

Proteomic analysis of the yeast mitochondrial ribosome.

Coupling to partner proteins modulates functional specificity of Mdm10 in mitochondrial biogenesis.

Fatty acid beta-oxidation promotes normal peroxisome distribution.

Proteomic analysis of the yeast mitochondrial ribosome.


Fatty acid beta-oxidation promotes normal peroxisome distribution.

Proteomic analysis of the yeast mitochondrial ribosome.


Fatty acid beta-oxidation promotes normal peroxisome distribution.

Proteomic analysis of the yeast mitochondrial ribosome.


Fatty acid beta-oxidation promotes normal peroxisome distribution.

Proteomic analysis of the yeast mitochondrial ribosome.


Fatty acid beta-oxidation promotes normal peroxisome distribution.

Proteomic analysis of the yeast mitochondrial ribosome.


Fatty acid beta-oxidation promotes normal peroxisome distribution.

Proteomic analysis of the yeast mitochondrial ribosome.


Fatty acid beta-oxidation promotes normal peroxisome distribution.

Proteomic analysis of the yeast mitochondrial ribosome.


Fatty acid beta-oxidation promotes normal peroxisome distribution.

Proteomic analysis of the yeast mitochondrial ribosome.


Fatty acid beta-oxidation promotes normal peroxisome distribution.

Proteomic analysis of the yeast mitochondrial ribosome.


Fatty acid beta-oxidation promotes normal peroxisome distribution.

Proteomic analysis of the yeast mitochondrial ribosome.


Fatty acid beta-oxidation promotes normal peroxisome distribution.

Proteomic analysis of the yeast mitochondrial ribosome.


Fatty acid beta-oxidation promotes normal peroxisome distribution.

Proteomic analysis of the yeast mitochondrial ribosome.
P08-012

- Retrograde signaling pathway controls survival during cell cycle arrest in yeast cells
  - Anna Zymin (Moscow, Russian Federation)

P08-013

- The J protein Dpl1 is involved in the targeting of mitochondrial precursor proteins
  - Katja Hansen (Kaiserslautern, Germany)

P08-014

- Induction of mitochondrial permeability transition by deaquamation
  - Yoshinari Takiuchi (Tokushima, Japan)

P08-015

- CRISPR/Cas9-mediated endogenous protein tagging for super-resolution microscopy and its application for studying mitochondrial dynamics
  - Michael Raz (Göttinngen, Germany)

P08-016

- Long-Chain inorganic polyphosphate is highly enriched in osteoblastic matrix vesicles
  - Julian Tanner (Hong Kong, People's Republic of China)

P08-017

- Endothelial mitochondrial homeostasis is enhanced by shear stress
  - Ling Wang (Khajen, Republic of China)

P08-018

- Nonthermal effect and safety of DBD-bioplasma on fibroblasts: A new molecular validation of bioplasma using the levels of HSP70 in cells
  - Je Young Jang (Seoul, Republic of Korea)

P08-019

- Intersectin-1s: a novel nucleos-cyttoplasmic endostic protein
  - Annalisia Radeghieri (Brescia, Italy)

P08-020

- Protein profile of erythrocyte membranes in acute pancreatitis: potential targets for therapeutic intervention
  - Juliazova (Kursk, Russian Federation)

P08-021

- What is the role of FAB1C in PSY1 mediated cell growth?
  - Martin Landschreiber (Friedenrberg, Denmark)

P08-022

- Lys-plasminogen affects platelet secretion and cytoskeleton rearrangement
  - Uzay Bilous (Kyiv, Ukraine)

P08-023

- Proteins of plasma membranes of vilious syncytiotrophoblast and their posttranslational modification in case of placental insufficiency
  - Anastasia Nishakou (Postov-on-Don, Russian Federation)

P08-024

- siRNA mediated downregulation of LETM1 results in decreased expression of CPA1
  - Canik Aral (Tekirdag, Turkey)

P08-025

- Isolation and characterization of different local salmonella strains from Northern Iraq
  - Sheerezad Ahmad (Sulaimaniya, Iraq)

P08-026

- The Role of ATPase in Endoplasmic Reticulum Stress response in pancreatic β cell
  - Hasibe Vard (Ankara, Turkey)

P08-027

- Super-hub mechanism of calcium signaling in atria
  - Sören Brandenburg (Göttinngen, Germany)

P08-028

- The language of telocytes: understand their involvement in tissue morphogenesis/regenerative medicine
  - Jude Rosseti (Bucharest, Romania)

P08-029

- Defining the role of SEPT9 in ciliogenesis
  - William Trimmer (Toronto, Canada)

P08-030

- Dephosphorylation of the ATPase Inhibitory Factor 1 (IF1) determines its interaction and biological activity on the H+ATP-synthese
  - Javier Garcia-Bermudez (Madrid, Spain)

P08-031

- Regulation of cargo delivery to lysosomes by Beclin-1 and its role in the proteolytic processing of the amyloid precursor protein (APP)
  - Alexis Gonzalez (Valdivia, Chile)

P09

- Autophagy and Degradation

P09-018-SP

- New insights on the molecular mechanisms that mediated incorporation of the amyloid precursor protein into multi-vesicular bodies
  - Patricia Aluros (Valdivia, Chile)

P09-019-SP

- The combined role of long chain acyl-CoA synthetase 2, long chain acyl-CoA synthetase 4 and long chain acyl-CoA synthetase 9 in lipid metabolism of Arabidopsis
  - Meihe Yueke Tek (Göttingen, Germany)

P09-020-SP

- New insights in telocytes role: intercellular signaling from novel in vitro approaches
  - Dragos Cretoiu (Bucharest, Romania)

P09-021-SP

- SEPT9 negatively regulates ubiquitin-dependent downregulation of EGFR
  - Michael Krauss (Berlin, Germany)

P09-022-SP

- Improvement of endothelial function in cardiac syndrome X by metoprolol
  - Yousif Rasmi (Urna, Islamic Republic of Iran)

P09-023-SP

- Mitochondrial and lysosomal permeabilization and reactive oxygen species mediate Pafukin and Stigmatoxynin cytotoxicity on CHO-K1
  - Nitha Zououzi (Monastir, Tunisian Republic)
P10 Redox-Regulation of Biological Activities

P10-004-SP
- G6PC3 deficient human white blood cells exhibit distinct endoplasmic reticulum stress response
  Rebeka Pithier (Budapest, Hungary)

P10-005-SP
- Redox regulation of Na,K-ATPase activity at pathological conditions
  Irima Patrushtaniok (Moscow, Russian Federation)

P10-006-SP
- Unfolded protein response to the hypercholesterolemia induced endoplasmic reticulum stress in atherosclerosis
  Permur Blazayjuk (Istanbul, Turkey)

P10-007
- Cardiac hypertrophy induced in mitochondrial NADP+-dependent isocitrate dehydrogenase knockout mice
  Jeon-Woo Park (Daegu, Republic of Korea)

P10-008
- c-Src-dependent EGFR transactivation mediates CORM-2-induced HD-1 expression in human trophoblast smooth muscle cells
  Chih-Chung Lin (Keei-San, Republic of China)

P10-009
- The Yin and Yang of hydrogen turnover, [FeFe]-hydrogenases analysed by ATR FT-IR
  Sven Stipp (Berlin, Germany)

P10-010
- Mitochondrial Ca2+ uptake is regulated by the Ca2+-dependent interaction of a disulphide-linked MCO1-MICU2 dimer which is formed by Mia40 Carmelita Petrunjaro (Kaiserslautern, Germany)

P10-011
- Inhibition of human peroxiredoxin 5 by catechol derivatives: an enzymatic kinetic approach
  Melissa Chow (Meurinbane, France)

P10-012
- Functional state of rat heart muscle cells and blood antioxidant system under psycho-emotional stress
  Nataša Bradina (Tikuli, Georgia)

P10-013
- The effect of various antioxidants in cell death-related oxidative stress
  Nedža Kovačič (Jugubrel, Slovenia)

P10-014
- Molecular determinants for cytosolic Fe/S cluster insertion
  Dominique Bechtel (Kaiserslautern, Germany)

P10-015-SP
- Biochemical characterization of a novel azoreductase from Rhodococcus opacus Top 1
  Jinghui Qian (Friesberg, Germany)

P10-016
- Identification and characterization of novel bacterial [FeFe]-hydrogenases for exploitation as highly efficient H2-producing catalysts
  Manoncetta Atzeni (Torino, Italy)

P10-017
- Sultation of quercetin reduces its biological activity
  Lenka Roubalová (Olomouc, Czech Republic)

P10-018
- Redox control of cytoskeletal dynamics: toggling the thiol switch in CRMP2
  Manuela Gellert (Greifswald, Germany)

P10-019
- Oxidizer and reducer different effects on proton-translocating FoF1-ATPase activity of Rhodobacter sphaeroides membrane vesicles
  Litr Gabrielyan (Yerevan, Armenia)

P10-020
- Recombinant human HSP60 produced in ClearColiTM BL21(DE3) lacks cytofite activity mediated by the NFkB pathway
  Brice-Natvel (Saint Denis, Reunion)

P10-021
- Inhibition of glycerol-3-phosphate oxidase activity of liver mitochondria by palmitic acid in the presence of ATP and tert-butylhydroperoxide
  Mikhail Dubinin (Yoshkar-Ola, Russian Federation)

P10-022
- The evaluation of certain biochemical antioxidant markers in the blood of patients with schizophrenia
  Rada Dumitru Rosou (Constanta, Romania)

P10-023
- Vascular transport and small G proteins are involved in glutoxin and molinak effect on intracellular Ca2+ concentration in macrophages
  Alexandru Năumov (Saint-Petersburg, Russian Federation)

P10-024
- The involvement of actin-binding proteins in glutoxin and molinak effect on intracellular Ca2+ concentration in macrophages
  Alexandru Năumov (Saint-Petersburg, Russian Federation)

P10-025
- Correlation between some enzymatic antioxidants and some cations in patients with affective depressive disorder
  Dominca-Mihaela Samargiu (Constanta, Romania)

P10-026
- Modification of the mechanism regulating the iron metabolism and correlation with oxidative stress in associated pathology of chronic hepatitis C and moutanatd arthriti
  Daniele Oraciu (Constanta, Romania)

P10-027
- Silver Nanoparticle as antithrombotic agent
  Samaneh Zohgahd (Jahrom, Islamic Republic of Iran)

P10-028
- Assessing the level of medium-weight molecules in the semen of men in morpho-reproductive age in the area of environmental crisis of Aral Sea region
  Berlalay Yukan (Kangarada, Kazakhstan)

P10-029
- Oxidative status of neutrophils from patients on chronic hemodialysis
  Asel Nuraliyeva (Kanagara, Kazakhstani)

P10-030
- The relation between the erythrocyes’ gluathione-dependent antioxidant enzymes and the consumption of a nutritional supplement in post-acute stroke patients
  Bogdan Menolescu (Bucharest, Romania)

P10-031
- Hypoxia/reperfusion injury evaluated in a cardiac cell model: protection by antioxidant plant extracts
  Olga Coudrith (Braga, Portugal)

P10-032
- Escherichia coli hydrogenase activity and H2 production during fermentation of mixture of glucose, glycerol and formate
  Karen Trchounian (Yerevan, Armenia)

P10-033
- Expression of cellubiose dehydrogenase from Phanerochaete chrysosporium in yeast Saccharomyces cerevisiae for directed evolution
  Marina Blaz (Belgrade, Serbia)

P10-034
- Molecular dissection of Mia40 functions in Saccharomyces cerevisiae
  Valentina Peleh (Kaiserslautern, Germany)

P10-035
- Molecular dissection of the mitochondrial protein import machinery
  Alay Ramesh (Kaiserslautern, Germany)

P10-036
- RAW 264.7 response to quantum dots generated ROS decides cellular fate: activation versus necrosis
  Loredana Stanca (Bucharest, Romania)

P10-037
- Bacillary proteases as potential agents for atherosclerosis prevention
  Julia Dankova (Kazan, Russian Federation)

P10-038
- Regulation of redox status in placenta in case of physiological pregnancy and complicated pregnancy
  Anastasia Nikashina (Rostov-on-Don, Russian Federation)

P10-039
- Full-length adipocetin protects platelet from activation and apoptosis
  Azize Sener (Istanbul, Turkey)
- The influence of physical exercise program with whole-body cryostimulation on oxidant-antioxidant status and inflammatory parameters in obese patients
- Determination of transforming growth factor beta-1 levels in hemodialysis patients
- Oxidative stress and antioxidant status in patients with asthma
- Hypochlorous acid influence on neutrophils functional activity
- Inhibition of Monoamine oxidase A (MAO-A) by some herbal medicines
- Nucleoredoxin – a potential cytosolic dithiol oxidase
- Inhibition of Monoamineoxidase A (MAO-A) by some herbal medicines
- Activity of succinate dehydrogenase in T lymphocytes subsets in children with genetically diagnosed glycogen storage disease type I
- The effects of quercetin on mildly oxidized LDL-induced oxidative modifications and reduced NO bioavailability in platelets
- Hypochlorous acid influence on neutrophils functional activity
- Relations between concentrations of asymmetric dimethylarginine and homocysteine in chronic obstructive pulmonary disease
- The influence of physical exercise program with whole-body cryostimulation on oxidant-antioxidant status and inflammatory parameters in obese patients
- Determination of transforming growth factor beta-1 levels in hemodialysis-treated non-diabetic patients
- Determination of transforming growth factor beta-1 levels in hemodialysis-treated non-diabetic patients
- Effect of apple polyphenol extracts on glycoxidation of intestinal cells
- Antioxidant capacity of daily consumed peach fruit juice and its antimicrobial effect on Proteus mirabilis
- High serum total free thiol levels in patients with high serum HDL-C: a cross-sectional study
- Presence of chronic varicose veins related to increased serum ceruloplasmin levels in adults: a cross-sectional study
- High serum total free thiol levels in patients with high serum HDL-C: a cross-sectional study in adult healthy volunteers
- High serum total free thiol levels in patients with high serum HDL-C: a cross-sectional study in adult healthy volunteers
- How oncogenic mutations affect qualitative and quantitative wiring of signalling pathways
- A genome-wide RNAi screen to dissect retrograde membrane traffic to the Golgi complex
- Characterizing the role of CPSF6 in HIV-1 infection by using small-molecule inhibitors
<table>
<thead>
<tr>
<th>POSTER SESSIONS</th>
<th>POSTER SESSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Poster Session 1</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Poster Session 1</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>P14-010</th>
<th>Protective effects of ginseng extracts on age-related phenotypes of SSD1-/- mice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Juewon Kim (Yongin-si, Republic of Korea)</td>
<td></td>
</tr>
<tr>
<td>P14-011</td>
<td>The functioning of parameters haemostasis system under influence IgG from patients with ischemic stroke</td>
</tr>
<tr>
<td>Tetiana Katin (Kyiv, Ukraine)</td>
<td></td>
</tr>
<tr>
<td>P14-012</td>
<td>Lactoferrin and its complex forms as bioregulators of cell process</td>
</tr>
<tr>
<td>Svetlana Soboleva (Novosibirsk, Russian Federation)</td>
<td></td>
</tr>
<tr>
<td>Parul Goel (Düsseldorf, Germany)</td>
<td></td>
</tr>
<tr>
<td>P14-014</td>
<td>Antibodies from sera of HIV-infected patients hydrolyzing histones</td>
</tr>
<tr>
<td>Svetlana Baranova (Novosibirsk, Russian Federation)</td>
<td></td>
</tr>
<tr>
<td>P14-015</td>
<td>Effects of herbicides and fungicides on the soil rhizohylic activity. A molecular docking approach</td>
</tr>
<tr>
<td>Diana-Larsa Vladutu (Timisoara, Romania)</td>
<td></td>
</tr>
<tr>
<td>P14-016</td>
<td>Semicarbazide-containing drug attenuates lung extracellular matrix deposition under the chronic ovalbumin-induced asthma, but does not affect on histamine activity in the bronchoalveolar lavage fluid</td>
</tr>
<tr>
<td>Olena Panfilova (Kyiv, Ukraine)</td>
<td></td>
</tr>
<tr>
<td>P14-017</td>
<td>Inhibition of NorA pump of Staphylococcus epidermidis by essential oils from Salvia spp</td>
</tr>
<tr>
<td>Romana Chovanova (Bratislava, Slovakia)</td>
<td></td>
</tr>
<tr>
<td>P14-018</td>
<td>Profiling and inhibition of multivalent WW domain interactions</td>
</tr>
<tr>
<td>Miriam Bertazzon (Berlin, Germany)</td>
<td></td>
</tr>
<tr>
<td>P14-019</td>
<td>The investigational endogenous intoxication and lipid peroxidation in patients with glioblastoma before and after treatment</td>
</tr>
<tr>
<td>Kozala Biegoszewska (Kościan, Poland)</td>
<td></td>
</tr>
<tr>
<td>P14-020</td>
<td>Effect of nanoparticles in the utilization of fatty acids by human microbota</td>
</tr>
<tr>
<td>Luis Rodríguez-Alcalá (Porto, Portugal)</td>
<td></td>
</tr>
<tr>
<td>P14-021</td>
<td>Adjuvant properties of Alternanthera mosaic virus virions and virus-like particles</td>
</tr>
<tr>
<td>Sabine Milhas (Marseille, France)</td>
<td></td>
</tr>
<tr>
<td>P14-022</td>
<td>Accelerating small compounds discovery targeting protein-protein interaction</td>
</tr>
<tr>
<td>Sibina Petra (Moscow, Russian Federation)</td>
<td></td>
</tr>
<tr>
<td>P14-023</td>
<td>Pepsin digestion of C-phycocyanin releases chromophores with potent antioxidant and antiinflammatory activities</td>
</tr>
<tr>
<td>Simon Minen (Badlgrade, Serbia)</td>
<td></td>
</tr>
<tr>
<td>P14-024</td>
<td>Biochemical characterization of the alternative heme b biosynthesis pathway of Desulfovibrio vulgaris Hildenborough</td>
</tr>
<tr>
<td>Susana Lobo (Oeiras, Portugal)</td>
<td></td>
</tr>
<tr>
<td>P14-025</td>
<td>Interaction of NBD-labeled fluorescent steroids and a fatty acid with Escherichia coli</td>
</tr>
<tr>
<td>Vera Efimova (Moscow, Russian Federation)</td>
<td></td>
</tr>
<tr>
<td>P14-026</td>
<td>Preliminary studies on structure-function relationship of bitter-taste dipeptides derived from food proteins – in silico approach</td>
</tr>
<tr>
<td>Anna Iwaniak (Olsztyn, Poland)</td>
<td></td>
</tr>
<tr>
<td>P14-027</td>
<td>In cerebellar neurons the enzyme glutamate dehydrogenase is crucial for glutamate oxidation</td>
</tr>
<tr>
<td>Michaela Hofhöft (Copenhagen, Denmark)</td>
<td></td>
</tr>
<tr>
<td>P14-028</td>
<td>Teratogenic and biochemical effects of a selective pesticide on rabbits</td>
</tr>
<tr>
<td>Muhammad Rehman (Birmingham, United Kingdom)</td>
<td></td>
</tr>
<tr>
<td>P14-029</td>
<td>Levels of MMPs and TIMP-1 in esophageal tissue after burn injury</td>
</tr>
<tr>
<td>Tetiana Izhuchuk (Kyiv, Ukraine)</td>
<td></td>
</tr>
<tr>
<td><strong>Poster Session 1</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Poster Session 1</strong></td>
<td></td>
</tr>
</tbody>
</table>

| P14-030 | The Kv-channel blockers as potent modulators of platelet reactivity |
| Ludmila Kazatskina (Kyiv, Ukraine) |
| P14-031 | Efficient in vitro inhibition of topoisomerase I and DNA binding by novel acidine derivatives |
| Volodymyr Mykhailuk (Kyiv, Ukraine) |
| P14-032 | Biosensor based on immobilized Lipooxygenase for determination of leukotrienes and lipoxins |
| Lachezar Manovski (Sofia, Bulgaria) |
| P14-033 | Molecular composition, function and physiology of Kainate Receptors (KARs) in pancreatic endocrine cells |
| Louis Davomoh (Bristol, United Kingdom) |
| P14-034 | Cytoxic activity of proteins and small molecules isolated from whole plant extracts and latex of Chelidonium majus L. towards HeLa cells |
| Robert Nawrot (Poznan, Poland) |
| P14-035 | Aflatoxin B1 induces macrophage activation and inflammation through TLR-MyD88 pathway |
| Sun Kang (Kyungsan, Republic of Korea) |
| P14-036 | Ubiquitin-independent degradation of myelin basic protein by immunoproteasome contributes to cytoxic T-cell mediated demyelinlitation in experimental autoimmune encephalomyelitis |
| Ekaterina Kuzina (Moscow, Russian Federation) |
| P14-037 | In vitro immunosuppressive activity and immunological alterations induced by H1 receptor antagonist, Astemizole on mouse immune system |
| Sang Ho Kim (Kyungsan, Republic of Korea) |
| P14-038 | Small molecules enable human fibroblasts conversion into neurosphere-like cells using a single polystransvector |
| Pimene Mirakhor (Tehran, Islamic Republic of Iran) |
| P14-039 | Bisubstrate-analogue inhibitors targeting mitotic protein kinases Aurora A and Daspin |
| Darja Lavogina (Tartu, Estonia) |
| P14-040 | Intracellular distribution and DNA binding activity of glyco-tacrine conjugates |
| Maria Kazurkova (Kosice, Slovakia) |
| P14-041 | Characterization of Potato virus X spherical virus-like particles |
| Ekaterina Tritnova (Moscow, Russian Federation) |
| P14-042 | Functioning change of serotonin metabolism in blood of patients with type 2 diabetes mellitus and ischemic stroke |
| Alona Yurchenko (Kyiv, Ukraine) |
| P14-043 | Bioconversions of lipophilic dyes Nile Red and 25-NBD-cholesterol into mycobacteria |
| Yaroslav Faldrov (Minsk, Belarus) |
| P14-044 | New antihistamine Kunitz-type polypeptides of the sea anemones, Heteractis crispa and Stichodactyla mertensi |
| Olisana Šimtová (Viadvostok, Russian Federation) |
| P14-045 | A new multigene family of Kunitz-type polypeptides from sea anemones |
| Aleksandra Kvetelina (Viadvostok, Russian Federation) |
| P14-046 | Inhibition of DNA-topoisomerase II activity with selected tistacrine-thiourea/ urea derivatives and their biological effect |
| Jana Janoková (Košice, Slovakia) |
| P14-047 | Two novel antioxidants with diverse biological effects on curumin-induced apoptosis in C2 skeletal myoblasts, signaling mechanisms involved |
| Maria Peleli (Athens, Greece) |
| P14-048 | Unexpected anti-platelet and promising proangiogenic effects of calix[4]arene C-145 in vivo |
| Volodymyr Chenyshenko (Kyiv, Ukraine) |
P14-049  □  Coumarin-tacrine hybrid molecules as potential anticancer agents
Eva Złecka (Košice, Slovakia)

P14-050  □  Investigation of biocompatibility and antifungal activity of silver doped hybrid materials based on silica and cellulose derivatives
Tsvetelina Angelova (Sofia, Bulgaria)

P14-051  □  Stereoselective synthesis of molecules with physiological effect on the cell functions by means of epase isolated from Pseudokomamonantarctica
Borislav Borisov (Sofia, Bulgaria)

P14-052  □  “Humanised” bixin protein ligase provides clues about inhibitor selectivity
Tatiana Soares de Costa (Adelaide, Australia)

P14-053  □  The development of inflammation and its impact on brain indoamine 2,3-dioxygenase activity under conditions of obesity
Taras Karpovets (Kyiv, Ukraine)

P14-054  □  The early effect of coronary surgery on serum NT-Pro BNP levels
Kiret Akyurek (Ankara, Turkey)

P14-055  □  The regulatory mechanisms of 3-hydroxy-3-methyl glutaryl coenzyme A reductase inhibitors, fluvastatin, and lovastatin, for the induction of p21 expression in HeLa cells
Shih-Ming Huang (Taipei, Republic of China)

P14-056  □  Different graphene oxide flakes shows impact on whole gene expression and molecular interactions in immune cells
Lucia Dalogu (Sassar, Italy)

P14-057  □  5-Aminouracil derivatives downregulate human adenosine receptor reactivity
Natalia Nikitenko (Moscow, Russian Federation)

P14-058  □  Kinetic investigations on small molecules, inhibitors of soybean lipoxygenase with potential activity on cellular functions in different diseases
Naya Raykova (Sofia, Bulgaria)

P14-059  □  A new affinity method for purification of bovine testicular hyaluronidase enzyme and an investigation of the effects of some compounds on this enzyme
Emine Toller (Ankara, Turkey)

P14-060  □  The effects of acute malnutrition exposure on renal oxidant & antioxidant balance in rats
Ozge Tugce Pasaoglu (Ankara, Turkey)

P14-061  □  Hydrolytic enzymes marine organisms as an instrument for investigating protein-protein interaction
Dmytro Gladun (Kyiv, Ukraine)

P14-062  □  The effect of low concentrations of some biologically active agents and fractions of medicinal plants on the aerobic respiration of lymphocytes in vitro
Sergiy Girin (Glevakha, Ukraine)

P14-063  □  Some indicators of oxidative metabolism of neutrophils of patients with community-acquired pneumonia
Lyudmila Demidchik (Karaganda, Kazakhstan)

P14-064  □  Flavonostilbenes from Viscum album ssp. crataegi with antimicrobial and proliferative properties
Tatjana Karpenyuk (Almaty, Kazakhstan)

P14-065  □  Uptake of polymeric nanoparticles by different cell types from oral epithelium
Bojana Celenic (Bucharest, Romania)

P14-066  □  Probing bisacetylated phosphorylations with small molecules
Roland Mohlekmuth (Buochs, Switzerland)

P14-067  □  Conventional inflammation and oxidative stress markers of the nonalcoholic fatty liver disease diagnosed patients
Suzan Muratoglu (Ankara, Turkey)

P14-068  □  Action mechanism of krait natriuretic peptide
Sindhuja Srinivasan (Singapore, Republic of Singapore)

P14-069  □  Reduced melanogenesis by si-RNA of P-protein in Melan-A cells
Euul Kim (Incheon, Republic of Korea)

P14-070  □  The photoactivated fluorescent dye for probing cellular organelles and lipid monolayers
Sergei Zaitsev (Moscow, Russian Federation)

P14-071  □  The curative effects of exendin-4 on renal oxidative damage, inflammation and fibrosis in diabetic mice
Selma Geogoni-Oksyoglu (Istanbul, Turkey)

P14-072  □  A novel streptococci- conserved β-lactamase involved in ampicillin resistance of Streptococcus pneumoniae
Yaw-Kuen Li (Hsinchu, Republic of China)

P14-073  □  Modern bioanalytical techniques for determination of pesticides as multienzyme system inhibitors
Iszla Szyjekova (Sofia, Bulgaria)

P14-074  □  The effect of malathion on oxidant & antioxidant status in rat brain tissue
Hatice Pasaroğlu (Ankara, Turkey)

P14-075  □  Dimerization inhibition of Ebola proteins and Alzheimer deposits?
Hans Schramm (Dettingen, Germany)

P14-076  □  Malathion-induced oxidative stress in rat liver
Cinar Stevcan (Ankara, Turkey)

P14-077  □  The destruction of arsine-containing biomolecules exposed to UV radiation
Anastasia Sadkova (Minsk, Belarus)

P14-078  □  Cell toxicity of water-soluble [C60] fullerene derivatives
Vasilina Sergeeva (Moscow, Russian Federation)

P14-079  □  Identification of the binding pocket of different HTR2 selective antagonists
Kerstin Burket (Leipzig, Germany)

P14-080  □  Study of the expression of catalytic antibodies influenced by murine B cell repertoire implication in autoimmune disease
Melody Shahsavarian (Compiègne, France)

P14-081  □  Synthesis, DNA binding study and biological activity of novel first row transition metals complexes
Jane Jarošková (Košice, Slovakia)

P14-082  □  Alkoxyresorufin O-dealkylase activities in rats treated with 7,12-dimethylbenz[a]anthracene and endosulfan
Canan Sapmaz (Bolu, Turkey)

P14-083  □  Untangling mitogenic signalling in living cells by information theory
Manuela Biansy (Berlin, Germany)

P14-084  □  Inhibition of amylin fibrillogenesis and protection of Islet Cell toxicity of water-soluble [C60] fullerene derivatives
Kerstin Burket (Leipzig, Germany)

P14-085  □  Study of the expression of catalytic antibodies influenced by murine B cell repertoire implication in autoimmune disease
Melody Shahsavarian (Compiègne, France)

P14-086  □  Screening for anti-diabetic adjuvants in balanites aegyptiaca
Radu Albucescu (Bucharest, Romania)

P14-087  □  Membrane-bound carbonic anhydrase as targets of an oracin immobilised affinity carrier
Krzysztof Andrzej (Kraków, Czech Republic)

P14-088  □  Apitherapy with the Venom of Apis sp. (Insecta: Hymenoptera: Apidae)
Eva Žilecká (Košice, Slovakia)
<table>
<thead>
<tr>
<th>POSTER SESSIONS</th>
<th>POSTER SESSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunday, July 5 &amp; Monday, July 6</td>
<td>Sunday, July 5 &amp; Monday, July 6</td>
</tr>
</tbody>
</table>

**P14-090**
- Sodium butyrate reduces Staphylococcus aureus internalization via TLR2 in bovine mammary epithelial cells
  - Alva-Murillo Nayel (Morelia, Mexico)

**P14-091**
- Prolactin-stimulated internalization of Staphylococcus aureus by mammary cells: role of TLR2 and αvβ1 integrin
  - Nayel Alva-Murillo (Morelia, Mexico)

**P14-092**
- Hepatoprotective effect of Cotinus Coggygria Scop. Extract on ethanol-induced liver injury of rats
  - Nesap Sancar-Bay (Istanbul, Turkey)

**P14-093**
- Laser processing of novel collagen-hydroxyapatite thin coatings with potential uses in bone regeneration
  - Alexandra Elena Oprea (Bucharest, Romania)

**P14-094**
- Biocompatible magnetite nanoparticles functionalized with the plant-derived compounds Eugenol and Limonen interfere with biofilm formation and persistence of Pseudomonas aeruginosa
  - Alina Holban (Bucharest, Romania)

**P14-095**
- Serum prokines activity in different clinical forms of Sclerodermia
  - Muhammed Bine (Kahramanmaras, Turkey)

**P14-096**
- Biocatalytic asymmetric synthesis of glycolytic pathway metabolites
  - Roland Wohlgemuth (Buchs, Switzerland)

**P14-097**
- Studies on the reversal of Kidney damage generated by diabetes
  - Alejandro yáñez (Valdivia, Chile)

**P14-098**
- Enzyme substrates for probing epoxidehydrolyase functions
  - Roland Wohlgemuth (Buchs, Switzerland)

**P14-099**
- In cardiac fibroblasts and myofibroblasts Toll-like receptor 4 (TLR4) activation releases proinflammatory and profibrotic cytokine
  - Guillermo Díaz-Araya (Santiago de Chile, Chile)

**P14-100**
- The antiviral activity from eleven selected chokolami plants against Avian Influenza Virus H9N2
  - Mirzi Shahzad (Bahawalpur, Pakistan)

**P14-101**
- EU-OPENSCREEN: Novel chemical tool compounds for molecular biologists
  - Bahne Stechmann (Berlin, Germany)

**P14-102**
- Induction of L- D-amino acids oxidases and urea cycle enzymes of Aspergillus niger R-3 by hydrogen peroxide
  - Sophrk Hovhannisyan (Yerevan, Armenia)

**P14-103**
- Effects of Hsp90 inhibition on galecittin-3 expression in human monocytic cell line THP-1
  - Jerka Dumić (Zagreb, Croatia)

**P14-104**
- Sen/Thr phosphorylation of flagellin RiC and its biological effects in Pseudomonas aeruginosa PA01
  - Tanuja Suryanarayanan (Singapore, Republic of Singapore)

**P14-105**
- Alteration in xenobiotic metabolizing enzyme activities with morin and 7,12-dimethylbenz(a)anthracene in diabetic male rats
  - Canan Sapmaz (Izlik, Turkey)

**P14-106**
- Recognition of linear B-cell epitopes of betanodavirus coat protein by RG-M18 neutralizing mAbs inhibits giant grouper nervous necrosis virus infection
  - Chi-Yao Chang (Taipei, Republic of China)

**P14-107**
- DHRST7, newly identified enzyme with overlapping function in metabolism of steroids and retinoids
  - Hana Štambergová (Hradec Králové, Czech Republic)

**P14-108**
- Nontraumatic osteoarthritis is associated with increased the levels of serum cystatin-C: A cross-sectional study
  - Emin Savli (Sanliurfa, Turkey)

**P14-109**
- Protein knockout mice: a novel in vivo approach for functional genomics
  - Stefan Dubé (Braunschweig, Germany)

**P14-110**
- Gaucher disease: Phenotypic and genotypic diagnosis in Algeria
  - Halâa Sham (Algeria, Algeria)

**P14-111**
- Regulation of HIF-1α expression by a natural compound; a new regulatory factor
  - Bo- Won Kim (Cheongwon, Republic of Korea)

**P15**
- Targeted Cancer Therapy

**P15-003-SP**
- Antibody Directed Enzyme Prodrug Therapy: Discovery of novel genes, isolation of novel gene variants and production of long acting drugs for efficient cancer treatment
  - Sayed Goda (Doha, Qatar)

**P15-004-SP**
- Breast cancer cell line MCF-7 escapes from G1/S arrest induced by proteasome inhibition through a GSK-3β dependent mechanism
  - Pauls Daze (Sevilla, Spain)

**P15-005-SP**
- Intracellular lysogens to augment the anti-tumoral efficacy of targeted toxins
  - Alexander Wing (Berlin, Germany)

**P15-006-SP**
- Molecular engineering of L-asparaginases used in antileukemic therapy
  - Manfred Konrad (Göttingen, Germany)

**P17**
- RNA-Based Disease Mechanism and Therapy

**P17-001-SH**
- Dnmt2-mediated resistance to nitrosative stress in the human parasite Entamoeba histolytica
  - Serge Anki (Haifa, Israel)

**P17-002-SH**
- miR-25-3p contributes to deregulated levels of ITGA5 and COL5A1 in renal cancer, possibly influencing cancerous adhesion
  - Katarzyna Rodek (Warsaw, Poland)

**P17-003-SH**
- MicroRNA and alternative splicing regulate the expression of SRSF2 in renal cancer
  - Ehsita Sokol (Warsaw, Poland)

**P17-004-SH**
- Cytoplasmic Polyadenylation Binding Proteins binds to the mRNA of insulin receptor impairing the expression of the protein in mouse kidney in diabetic conditions
  - Moises Sandoval (Valdivia, Chile)

**P17-005-SP**
- The role of microRNA cluster MIR23A–27A–24-2 in the development of aggressive B-cell lymphoma
  - Natalie Kyitta (Braunschweig, Germany)

**P17-006-SP**
- miR-155 modulates IFNγ signaling pathway by targeting SOCS1 expression in biliary atresia
  - Yu-An Hsu (Hsinchu, Republic of China)

**P17-007-SH**
- miRNA target enrichment network analysis in Hepatocellular carcinoma
  - Devis Pasquetti (Trieste, Italy)

**P17-008-SP**
- Anti-miRNAzymes as a potential tool for therapy of brain tumors
  - Katarzyna Rolle (Poznan, Poland)

**P17-009**
- Transcription-coupled RNA surveillance in human genetic diseases caused by splice site mutations
  - Rita Vaz-Drago (Lisboa, Portugal)

**P17-010**
- Antibody Directed Enzyme Prodrug Therapy: Discovery of novel genes, isolation of novel gene variants and production of long acting drugs for efficient cancer treatment
  - Sayed Goda (Doha, Qatar)
Neuronal Ion Channels and their Role in Disease

P20-001-SH  L-Dopa decarboxylase (DDC) mRNA expression: implication in insulin-signaling in human β-pancreatic cells  Maria Ioanna Christodoulou (Athens, Greece)

P20-002-SH  Study of the expression of 28 diabetes-related genes in peripheral blood: indications for clinical significance in type 2 diabetes mellitus (T2DM)  Emmanouil Fragoulis (Athens, Greece)

P20-003-SH  The impact of human HAX-1 protein expression and localization on granulopoiesis  Algea Tchombola (Warsaw, Poland)

P20-004-SH  Biotechnological synthesis of new nucleosides based on 2-amino purine with a bulky 7,8-difluoro-3,4-dihydro-3-methyl-2H-[1]benzoxazine residue at C6 position  Barbara Eletskaya (Moscow, Russian Federation)

P20-005-SH  Coordinated expression down-regulation of three small phosphatase genes CTDSPT1/2/3, in lung but not in renal cancer  Alexey Dmitrov (Moscow, Russian Federation)

P20-006-SH  MEFV gene mutation spectrum in Familial Mediterranean fever (FMF) in the South-east region of Turkey  Béla Áldorvölgyi (Szeged, Hungary)

P20-007-SH  RNA-based epigenetic mechanism of the malignant transformation: a novel theory of carcinogenesis  Volodymyr Fialytskyi (Kyiv, Ukraine)

P20-008-SH  Expression profiles of 20 mRNAs – predicted regulators of chromosome 3p genes in breast and renal carcinomas  Alexey Dmitrov (Moscow, Russian Federation)

P20-009-SH  Effects of platelet derived serotonin on renal injury  Gulberk Ucar (Ankara, Turkey)

P20-010-SH  Coordinated down-regulation of the genes encoding neuronal cell adhesion molecules in lung and renal cancers  Vera Sienchenko (Moscow, Russian Federation)

P20-011-SH  In utero pesticides exposure and generation of acute myeloid leukemia associated translocation (8;21)  Mona El-Baz (Assuit, Egypt)

P20-012-SH  Therapeutic plasma exchange restore expression profile of monocytes in antiphospholipid syndrome  Anush Martirosyan (Olomouc, Czech Republic)


P20-014-SH  Tobacco mosaic virus-based vectors displaying conserved Influenza antigens: host range, tissue localization and peculiarities of joint infections  Natalia Petukhova (Moscow, Russian Federation)

P20-015-SH  RNA effectors in combination with small molecule drugs for cancer treatment  Belkıs Aydınol (Diyarbakır, Turkey)

P20-016-SH  Structure-function study of human secreted Ly-6/uPAR related proteins SLURP-1 and SLURP-2 suggests multiple molecular targets  Ekaterina Lyukmanova (Moscow, Russian Federation)

P20-017-SH  Structure-function study of human SLURP-1 and SLURP-2 suggests multiple molecular targets  Ekaterina Lyukmanova (Moscow, Russian Federation)

P20-018-SH  Toward the physiological role of the Cl-/H+ exchanger ClC-3 in the brain  Stefanie Weinert (Berlin, Germany)

P20-019-SH  The attenuated Presenilin-1 endoproteolysis causes a store-operated calcium channels hyperactivity in neurons of Alzheimer’s disease models  Maria Ryazantseva (St. Petersburg, Russian Federation)

P20-020-SH  Novel compounds acting on nicotinic acetylcholine receptors: from low molecular ones to peptides and proteins  Victor Taščín (Moscow, Russian Federation)

P20-021-SH  The large intracellular loop of the human glycine receptor α1: It’s not all about the size  Georg Langhofer (Würzburg, Germany)

P20-022-SH  Scorpion toxin fused with fluorescent protein is a novel probe to study potassium channels  Alexey Kuzmenkov (Moscow, Russian Federation)

P20-023-SH  KcsA-Kv1.2 hybrid channel embedded in E. coli cell membrane: design, properties, applications  Niko Porčnikôzé (Tabu, Georgia)

P20-024-SH  The elevated level of full-length presenilin-1 associated with Alzheimer’s disease enhances store-operated calcium currents in neuronal cells  Ksenia Skobleva (St. Petersburg, Russian Federation)

P20-025-SH  Deregulation of store-operated calcium channels in Huntington-specific human neuroasts  Vasil’mr Vogn (St. Petersburg, Russian Federation)

P20-026-SH  Mechanisms of Nervous System Development and Regeneration  Mikhail Akimov (Moscow, Russian Federation)
P2-012  EphA1 gene mutation 1475G>A is associated with mild intellectual disability
Roman Sulikovskyy (Kyiv, Ukraine)

P2-013  Catalytic soman scavenging by non-aging acetylcholinesterase mutant assisted with novel site-directed aldolases
Zrinka Kovarić (Zagreb, Croatia)

P2-014  Targeting FTEL and associated signalling networks in axonogenesis
Patama Grim-Oliver (Berlin, Germany)

P2-015  Identification of transmembrane pseudo-phosphatase Plasticity related gene 2 as an interacting partner of FTEL
Anna Brosig (Berlin, Germany)

P2-016  Optimizing CNS-delivery by tachy steaare-couplde liposomes
Mansi Bhargava (Kanpur, India)

P22  Degeneration and Ageing of the Nervous System

P22-004-SH  RNA aptamers against autoantibodies related to multiple sclerosis
Chih-Li Lin (Taichung, Republic of China)

P22-003-SH  Induction of Nanog displays protective effects against amyloidosis
Ali Akbar Meratan (Ahwaz, Islamic Republic of Iran)

P22-002-SH  Rosmarinic acid redirect lysozyme from its normal amyloid formation pathway
Edgar Kramer (Hamburg, Germany)

P22-001-SH  Label free quantitative proteomic analysis of astrocytes directly
Joaõ Laranjinha (Coimbra, Portugal)

P22-012  The dysfunction of retrograde transport is sufficient to disrupt Aβ clearance in astrocytes via disturbed endosome trafficking
Hikaru Kihara (Aichi, Japan)

P22-013  Synthetic fragment of receptor for advanced glycation end products prevents memory loss in mice with experimentally induced Alzheimer's disease
Anna Kamynina (Moscow, Russian Federation)

P22-010  Induction of Nanog displays protective effects against amyloid β (Aβ)-induced cytotoxicity
Chen-Li Lin (Tai-chung, Republic of China)

P22-008-SH  Label free quantitative proteomic analysis of astrocytes directly converted to neurons
Hannah Schönbein (Bochum, Germany)

P22-009  Rosmarinic acid redirect lysozyme from its normal amyloid formation pathway into nontoxic amorphous aggregates and reduces cellular toxicity
Ali Alktar Alman (Alwaz, Islamic Republic of Iran)

P22-011  RNA aptamers against autoantibodies related to multiple sclerosis as a basis for detection probes
Valentina Timoshenko (Novosibirsk, Russian Federation)

P22-016  Optimization of CNS delivery by tachy steaare-couplde liposomes
Mansi Bhargava (Kanpur, India)

P22-014  Ly60High monocytes control experimental autoimmune encephalomyelitis progression
Juan Calatayud Subias (Barcelona, Spain)

P22-015  Prior protein mislocalized in the cytosol causes loss of stenodrin spines
Tomasz Zakrowski (Warsaw, Poland)

P22-016  The yeast model of Huntington’s disease in studies concerning the role of human VDAC isoforms in the disease pathomechanism
Daria Grobys (Poznan, Poland)

P22-017  Characterization of Sfn-dependent gene expression changes underlying motor neuron degeneration and synaptic dysfunction in SMA
Hugo Santos (Lisbon, Portugal)

P22-018  GDNF-family growth factors in the treatment of neurodegenerative diseases
Tatiana Sukhanova (Helsinki, Finland)

P22-019  HSP70 protects neuronal cells from toxic effect of amyloid beta and its isoforms
Vladimir Malievich (Moscow, Russian Federation)

P22-020  The effect of Glycation on the permeability of an in vitro blood-brain barrier model
Maryam Hussain (Halle, Germany)

P22-021  D2 receptor gene in undergraduate students for negative life events
Annika Brosig (Berlin, Germany)

P22-022  The effect of toluidine blue O on amyloid β peptide levels in human neuroblastoma cells
Melike Yüksel Tek (Göttingen, Germany)

P22-023  The effect of polymorphism of serotonin transporter gene and the dopamine d4 receptor gene in undergraduate students for negative life events
Meltem Atabay (Zonguldak, Turkey)

P22-024  Metabolic peculiarities of the mechanism for neuron protection against heat shock during human aging and initial stage of Alzheimer’s disease
José Castillo (Santiago de Compostela, Spain)

P22-025  The human Tp53 Arg72Pro polymorphism increases neuronal vulnerability to apoptosis after experimental intracerebral hemorrhage
David Lindberg (Göteborg, Sweden)

P22-026  The yeast model of Huntington’s disease in studies concerning the role of human VDAC isoforms in the disease pathomechanism
Daria Grobys (Poznan, Poland)

P22-027  The effect of Glycation on the permeability of an in vitro blood-brain barrier model
Maryam Hussain (Halle, Germany)

P22-028  The effect of toluidine blue O on amyloid β peptide levels in human neuroblastoma cells
Melike Yüksel Tek (Göttingen, Germany)

P22-029  The effect of polymorphism of serotonin transporter gene and the dopamine d4 receptor gene in undergraduate students for negative life events
Meltem Atabay (Zonguldak, Turkey)

P22-030  Metabolic peculiarities of the mechanism for neuron protection against heat shock during human aging and initial stage of Alzheimer’s disease
José Castillo (Santiago de Compostela, Spain)

P22-031  The effect of polymorphism of serotonin transporter gene and the dopamine d4 receptor gene in undergraduate students for negative life events
Meltem Atabay (Zonguldak, Turkey)

P22-032  The effect of polymorphism of serotonin transporter gene and the dopamine d4 receptor gene in undergraduate students for negative life events
Meltem Atabay (Zonguldak, Turkey)
**P27-002** Human Tp53 Arg72Pro polymorphism dictates neuronal susceptibility to amyloid β-neurotoxicity
Rebeca Lapresa (Salamanca, Spain)

**P27-003** Behavioral and neurochemical effects of monosodium glutamate in neonatal rats
Aygen Çetin Karadestar (Denizli, Turkey)

**P27-004** Fluorescent carbon dots: Neuromodulatory effects on exocytotic release, uptake and ambient level of glutamate and GABA in brain nerve terminals
Tatiana Borisova (Kyiv, Ukraine)

**P27-005** Diesel Particles (DEP) effects on an endothelial cell line (HMVEC/D3) and hippocampal neurons (HT22)
Chiara Mari (Monza, Italy)

**P27-006** β-amyloid compromises Reelin signaling in Alzheimer’s disease
Javier Saez-Valero (Sant Joan d’Alacant, Spain)

**P27-007** Anticonvulsant activity of some new Naltimide derivatives: Effects on GABA metabolism
Ayşe Uyunu (Malatya, Turkey)

**P27-008** Synthesis of the PCL nanoparticles containing neuroprotectors as efficient (brain) drug delivery systems
Marta Lapczynska (Cracow, Poland)

**P27-009** Taurocholate-excreting acid activates Nrf2 antioxidant system in the MPTP mouse model of Parkinson’s disease
Margarida Castro-Caldas (Lisbon, Portugal)

**P27-010** Effect of aluminum and Amyloids beta (Abeta) peptide on human high density lipoproteins
Gianna Ferretti (Ancona, Italy)

**P27-011** The function of the wrap53 gene in neuronal survival after ischemia
Irene Sánchez-Morín (Salamanca, Spain)

**P27-012** Unresolvational nanomechanics of tau
Maria Del Carmen Fernandez-Ramirez (Madrid, Spain)

**P27-013** Dysfunction of glucose utilization in the brain as a trigger mechanism for neuropathology
Irina Popova (Pushchino, Russian Federation)

**P27-014** Carrier mediated delivery system bearing dopamine for effective management of Parkinsonism
Saurabh Bhargava (Kanpur, India)

### Molecular Clocks

**P27-001-SH** Effects of reciprocal interactions between various dietary fats and circadian phases on postprandial hyperlipidaemia in rats
Basin Sazım (Malatya, Turkey)

**P27-002-SH** Understanding phototrophic growth: Modeling temporal resource allocation and diurnal dynamics in cyanobacterial metabolism
Ralf Steuer (Berlin, Germany)

**P27-003-SH** Feedback loops of the mammalian circadian clock constitute repressilator
Hanspeter Herzel (Berlin, Germany)

**P27-004-SH** Dereification of circadian time and its correlation with tumour progression
Angela Fatigato (Berlin, Germany)

**P27-005-SH** Analysis and identification of circadian-regulated metabolic pathways in tumourigenesis
Luise Fuhr (Berlin, Germany)

**P28** Comprehensive Models of Metabolism and Signaling

**P28-001-SH** A switch rewired: exploring the impact of natural and aberrant structure alterations in Ras GTPases-mediated signaling networks through structural bioinformatics
Francesco Raimondi (Heidelberg, Germany)

**P28-002-SH** Targeting ERK: In search of downstream targets
Evinh Beş่าย Unal (Berlin, Germany)

**P28-003-SH** Intram errors in fatty-acid metabolism: living on the edge
Karen van Eunen (Groningen, Netherlands)

**P28-004-SH** Metabolome profiling of the sleeping chironomid: starting the cell engine after anhydrobiosis
Elina Shagimardanova (Kazan, Russian Federation)

**P28-005-SH** Modeling TLR7/8 signal transduction using Petri net formalism
Leonie Arntzen (Frankfurt am Main, Germany)

**P28-006-SH** Sensor kinases TOR and GCN2 orchestrate translation and autophagy in response to carbon, nitrogen and sulfur supply for cyanobacterial metabolism in different models of the circadian clock of Neurospora crassa
Maria Del Carmen Fernández-Ramirez (Madrid, Spain)

**P28-007-SH** Cytokines, chemokines and growth factors profile in caveolin-1 transgenic mice
Irina Popova (Pushchino, Russian Federation)

**P28-008-SH** Towards genome wide reconstruction and validation of signal transduction networks
Marcus Krantz (Berlin, Germany)

**P28-009** Towards genome wide reconstruction and validation of signal transduction networks
Marcus Krantz (Berlin, Germany)

**P28-010** Comparative analysis of the microRNA cluster within the Arthrobacter genus
Marius Mihalas (Pia, Romania)

**P28-011** Ginkgolide modulates human Sertoli cells metabolism: relevance for male fertility
Ana Martins (Porto, Portugal)
<table>
<thead>
<tr>
<th>POSTER SESSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Poster Session 1</strong></td>
</tr>
</tbody>
</table>

**P28-012**
Tracing the presence of an enzyme essential for de-novo biosynthesis of NAD 
in the axon lineage  
Toni Grossmann (Sheffield, United Kingdom)

**P28-013**
Connecting signalling output to metabolic regulation reveals strategies of reprogramming a cellular energy homeostasis  
Thomas Nagl (Vienna, Austria)

**P28-014**
Effect of oxidative stress and TNIα on ICAM-1 expression and release in intestinal myofibroblasts  
Nigro Fontana (Firenze, Italy)

**P28-015**
Inference of signal transduction pathways from phosphorylation data to identify targets of combinatorial cancer therapy  
Torsten Gross (Berlin, Germany)

**P28-016**
Angiotensin I-converting enzyme inhibiting (ACE) activity of oat Avena sativa L. protein-derived ex-vivo digests  
Margarita Darowicz (Olszyn, Poland)

**P28-017**
Characterization of physiological roles of enzyme X in pancreatic β-cells in vitro and in vivo  
Hyun Ae Hong (Daegu, Republic of Korea)

**P28-018**
Oxidative stress in the kidney of adult Dahl rats with salt hypertension  
Hana Rauchova (Prague, Czech Republic)

**P28-019**
Mechanism of LPK activity regulation by intrinsically disordered region phosphorylation  
Iona Faustova (Tartu, Estonia)

**P28-020**
90 days of human muscle rest decrease the expression of many mRNAs from glucose metabolism. Exercise partially counteracts this effect  
Maria Cussu (Barcelona, Spain)

**P28-021**
Role of nitric oxide and CDDBP3 adapter protein on human sperm motility  
Zinovy Vorobets (Lviv, Ukraine)

**P28-022**
Chrysin attenuates liver fibrosis and hepatic stellate cell activation through TGF-β signaling pathway  
Cornel Balta (Arad, Romania)

**P28-023**
Magnetic photons of homeopathic remedies cured rheumatic disease according to biochemical pathways  
Karin Lenger (Offenbach, Germany)

**P28-024**
Application of the correlations between the intercellular tensionometry and biochemical parameters of the animal blood for comprehensive diagnostics  
Sergei Zaitsev (Moscow, Russian Federation)

**P28-025**
Identifying cis-acting sugar response elements in promoter of genes that facilitate glucose signaling in Arabidopsis thaliana  
Matsoukas (Ioannina, Greece)

**P28-026**
Study of Brachypodium distachyon and local breed soft wheat varieties that facilitate glucose signaling in Arabidopsis  
Hyeon Jeong Hwang (Ulsan, Republic of Korea) and in vivo

**P28-027**
Collagen I induces TNF-α production and down-regulation of IRF4 to regulate the activation of dendritic cells  
Hyun Ae Hong (Daegu, Republic of Korea)

**P28-028**
Luteolin attenuates adipocyte-derived inflammatory responses via suppression of NF-κB/MAPK pathway  
Sarmita Napat (Jeonju, Republic of Korea)

**P28-029**
Cross-iso; cross-analysis of TCGA-PNA-Seq, mRNA-Seq, methylation and mutation data  
George Krasnov (Moscow, Russian Federation)

**P28-030**
Mitochondrial dysfunction in patients with HIV infection  
Mihir Kurbat (Grodno, Belarus)

**P28-031**
Radiotherapy-related changes in serum profile of lipids are primarily associated with a type of acute toxicity; comparison of radiation-induced effects in patients with prostate cancer and head and neck cancer  
Margarita Darowicz (Olszyn, Poland)

**P28-032**
Metabolic state modulates the intracellular localization of aldolase B and its interaction with liver fructose-1,6-bisphosphatase  
Juan Slebe (Buenos Aires, Chile)

**P28-033**
Stearyl alcohol, one of the most effective lipase-super-inducers, not only induces the expression of virulence related genes but also induces the production of polyester in Ralstonia sp. NT180  
Moto Ishihara (Tokyo, Japan)

**P28-034**
Long-chain alkane degrading Acinetobacter sp. BT1A from petroleum contaminated Soil  
Kemal Guven (Odanba, Turkey)

**P28-035**
Thermo-alkaliphilic strains producing some industrial enzymes, isolated from Sorgun Hot Spring in Turkey  
Kemal Guven (Odanba, Turkey)

**P28-036**
Oxidative stress in the brain of Dahl rats with salt hypertension elicited in adulthood  
Kemal Guven (Odanba, Turkey)

**P28-037**
Potential of urines fluorescent fingerprints for detection of metabolic changes of various animal species  
Juzana Stoffelova (Kosice, Slovakia)

**P28-038**
Calmodulin in the black tiger shrimp, Penaeus monodon  
Ratwe Wongpanya (Bangkok, Thailand)

**P28-039**
Proteomics and metabolomics in early diagnosis and monitoring of patients with chronic kidney disease  
Simona Mihal (Bucharest, Romania)

**P28-040**
Modulation of MAPK and NFκB signaling pathways by TiO2 nanotubes  
Patricia Neacsu (Bucharest, Romania)

**P28-041**
Comparative analysis of the effectiveness of sample preparation methods of biological samples for «shotgun» proteomic analysis  
Aiena Pankratova (Minsk, Belarus)

**P28-042**
Computational determination of selenoprotein inhibitors  
Víctor Osamor (Ota, Nigeria)

**P28-043**
Genome mining approach to secondary metabolism research: Biosynthesis of Ochratoxin A in Aspergillus westerdijkiae  
Alpin Pankratova (Singapore, Republic of Singapore)

**P28-044**
Functional expression of a novel indigenous Endo-beta 1,4-glucanase gene in Aps melibra  
Amit Sari (Lahore, Pakistan)

**PS2-001-SH**
Mechanisms of Membran Transport  
Jeanne-Kim (Seoul, Republic of Korea)

**PS2-002-SH**
Provides the first channel for the peroxisomal export of PT25 proteins  
Jessica Küpper (Bochum, Germany)

**PS2-003-SH**
P23 Structural characterisation of the ABCC transporter BmXa in nanodiscs environment  
Yann Huon de Kermadec (Grenoble, France)
P32-004-SH  Distinct conformational spectrum of homologous multidrug ABC transporters
Aina Moeller (Aarhus, Denmark)

P32-005-SH  Studying HIV-1 envelope lipid environment using photoactivatable lipids
Jon Ander Nieto-Garai (Leioa, Spain)

P32-006-SH  Fish-mammalian GLUT4 chimeric proteins as tools for studying GLUT4 trafficking and endocytosis
Francesco Carvalho-Simões (Barcelona, Spain)

P32-007-SH  Functional reconstitution of a type I secretion system into nanodiscs
Kerstin Kanonenberg (Düsseldorf, Germany)

P32-008-SH  Multicolor dSTORM with novel dyes to investigate the molecular architecture of Clathrin-Coated Pits
Martin Lehmann (Berlin, Germany)

P32-009  Estrogenic regulation of Nav-dependent bicarbonate transporters from SLC4 family in human Sertoli Cells
Rafael Fernández (Leioa, Portugal)

P32-010  Lipid dependent activities of cell-free expressed MraY translocase homologues
Svetlana Efimova (St. Petersburg, Russian Federation)

P32-011  Periplasmic binding protein AccA from Agrobacterium tumefaciens
Abbas El Sahili (Gif Sur Yvette, France)

P32-012  Type IV secretion system coupling proteins, the role of the transmembrane domain
Olena Zolotarova (Kyiv, Ukraine)

P32-013  Maturation of endothelial Weibel-Palade bodies: Analysis of trafficking routes to Weibel-Palade Bodies
Nina Jaensch (Münster, Germany)

P32-014  Comparative analysis of the activity of MDR pumps in Salmonella enterica using different indicator compounds and methods of assay
Vladyslav Miklayev (Kovno, Lithuania)

P32-015  Lipid dependent activities of cell-free expressed MraY translacase homologues
Erik Henrich (Frankfurt am Main, Germany)

P32-016  Structural investigation into the comprehensive mechanism of concentrative nucleoside transport
Zhenyu Hao (Leeds, United Kingdom)

P32-017  MacAB efflux system of Serratia marcescens as a potential protective system against oxidative stress
Tatiana Shirshikova (Kazan, Russian Federation)

P32-018  Acetazolamide, an inhibitor of carbonic anhydrase, suppresses photophosphorylation and stimulates light-induced ATP hydrolysis in isolated spinach chloroplast
Olha Zolotarova (Kyiv, Ukraine)

P32-019  Reconstitution of vesicle priming for Ca2+-triggered millisecond exocytosis through chemical clamp-mediated control of SNARE zipper
Dae-Hyuk Kweon (Suwon, Republic of Korea)

P32-020  Comparative study between mammalian and plant GPI modification mechanism
Michalabandic (Kamianets-Podilsky, Ukraine)

P32-021  In vivo reconstitution of a cytochrome b559-like structure with a truncated N-terminus a subunit
Rafael Picorel (Zaragoza, Spain)

P32-022  Cellular uptake mechanisms and activity of novel polypropylene-based anionic DNA lipoplexes
Zbigniew Madej (Kraków, Poland)
### Poster Session 1

<table>
<thead>
<tr>
<th>Poster Session 1</th>
<th>Poster Session 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 AM–7:30 PM</td>
<td>8:30 AM–7:30 PM</td>
</tr>
</tbody>
</table>

#### Session 1: Discovery of a non-cationic cell penetrating peptide derived from membrane-interacting human proteins and its potential as a protein delivery carrier

**Title:** Discovery of a non-cationic cell penetrating peptide derived from membrane-interacting human proteins and its potential as a protein delivery carrier

**Authors:** Hyo Young Kim (Seoul, Republic of Korea), Stefanie Gier (Saarbrücken, Germany), Doug-Young Ryu (Seoul, Republic of Korea), Elisabeth Nyakatura (New York, United States of America), Ozge Ugurlu (Izmir, Turkey), Yevgeniya Kolesnikova (Karaganda, Kazakhstan), Marta Sadowska (Cracow, Poland), Yasuo Shinohara (Tokushima, Japan), Micheline El Khoury (Brussels, Belgium), Frank Bernhard (Frankfurt am Main, Germany), Antonio Casalinho (Rio de Janeiro, Brazil), and handling.

**Abstract:**

- **Abstract:**
  - **Purpose:** The purpose of this study is to identify a non-cationic cell penetrating peptide (CPE) derived from membrane-interacting human proteins (MIPs) and to evaluate its potential as a protein delivery carrier.
  - **Methodology:** The identification of the non-cationic CPE is achieved through bioinformatic analysis of MIP sequences followed by in vitro and in vivo evaluation of its cell-penetrating properties.
  - **Results:** The non-cationic CPE shows effective cell penetration with minimal cytotoxicity and has the potential to deliver proteins into various cell types.
  - **Conclusion:** The non-cationic CPE derived from MIPs is a promising candidate for protein delivery applications due to its improved cellular uptake and reduced toxicity compared to cationic CPEs.

**Keywords:** MIPs, non-cationic CPE, protein delivery, cellular uptake.
Non-Coding RNAs in Gene Regulation

P06-033-SP
- Comparative transcriptome and proteome analyses of Bacillus subtilis 6S-1 and 6S-2 RNAs deletion strains
- Mohammad Hamad (Jeddah, Saudi Arabia)

P06-020
- The impact of oxidative stress on prostate 1 and 2 transcripts contents in human spermatozoa from smokers and nonsmokers
- Martin Bartosik (Brno, Czech Republic)

P06-016
- The activated androgen receptor regulates WNT/TCF7 through mediation of SEPN1, an endoplasmic reticulum-localized selenoprotein, counteracts induced by ligand binding
- Ayla Solmaz Avcıkurt (Balıkesir, Turkey)

P06-017
- Two-level inhibition of galK expression by Spot 42: degradation of mRNA mK2 and enhanced transcription termination before the galK gene
- Jens Frindert (Heidelberg, Germany)

P06-018
- Antioxidant effect of Lithium is regulated by microRNA-34a in SH-SY5Y cells
- Lorenza Pasqualini (Innsbruck, Austria)

P06-019
- miR-29b is a highly promising molecular marker for breast cancer progression
- Michal Lubas (Copenhagen, Denmark)

P06-021
- Homo sapiens exhibit a distinct pattern of CNV genes regulation: an important role of miRNAs in expression plasticity
- Ayla Solmaz Avcıkurt (Balıkesir, Turkey)

P06-022
- SEPN1, an endoplasmic reticulum-localized selenoprotein, counteracts induced by ligand binding
- Beatriz Castro Bohórquez (Granada, Spain)

P06-023
- The interaction between heat shock response and small RNA biogenesis in Drosophila melanogaster
- Sara Haag (Göttingen, Germany)

P06-024-SP
- The impact of antisense transcription on protein abundance in yeast
- Beatriz Castro Bohórquez (Granada, Spain)

P06-025-SP
- The activated androgen receptor regulates WNT/TCF7 through mediation of microRNA-1
- Yen-Nien Liu (Taipei, Republic of China)

P06-026-SP
- Electrochemical detection of microRNAs
- Mathias Ziegler (Bergen, Norway)

P06-027-SP
- Shifts in non-coding RNA expression profile distort the set of nuclear envelope proteins and affect the nuclear-cytoplasmic transport
- Emine Ezel Cilek (Ankara, Turkey)

P06-028-SP
- microRNAs as effectors regulated by androgen receptor in prostate cancer
- Eleni Galliopoulou (Larissa, Greece)

P06-009
- MicroRNA control of protein expression noise
- Olga Burenina (Moscow, Russian Federation)

P06-010
- Analysis of oligonucleotides influence on the expression of interferon-stimulated and NF-κB-target genes in mice influenza model
- Natalia Simionescu (Bucharest, Romania)

P06-011
- Dissecting the role of microRNAs and their therapeutic potential in Alzheimer’s disease
- Beatriz Castro Bohórquez (Granada, Spain)

P06-012
- Impact of small RNA molecules derived from the 5’-ends of miRNAs in cell function
- Andrea Marat (Berlin, Germany)

P06-013
- miR-496 and miR-192a identified in HDL subfractions discriminate between stable and vulnerable coronary artery disease patients
- Jens Frindert (Heidelberg, Germany)

P06-014
- Integrated mRNA profiling of estrogen receptor-positive breast cancer cell line LNCaP (Konya, Turkey)
- Nabil Mohamad (Jeddah, Saudi Arabia)

P06-015
- A systematic approach to identify novel microRNAs without reference genome sequences in non-model organisms
- Theresia Gutmann (Dresden, Germany)

P06-016
- miRNA mediated mechanisms of Trasitubulam and latamifin treatment in breast cancer
- Martin Bartosik (Brno, Czech Republic)

P06-017
- The impact of oxidative stress on prostate 1 and 2 transcripts contents in human spermatozoa from smokers and nonsmokers
- Jesús Frindert (Heidelberg, Germany)

P06-018
- The activated androgen receptor regulates WNT/TCF7 through mediation of SEPN1, an endoplasmic reticulum-localized selenoprotein, counteracts induced by ligand binding
- Beatriz Castro Bohórquez (Granada, Spain)

P06-019
- miR-29b is a highly promising molecular marker for breast cancer progression
- Michal Lubas (Copenhagen, Denmark)

P06-020
- Secondary structure of mature miRNAs suggests therapeutic approach
- Anneliesa Blaier (Poznań, Poland)

P06-021
- Homo sapiens exhibit a distinct pattern of CNV genes regulation: an important role of miRNAs in expression plasticity
- Kyriacos Fakakis (Athens, Greece)

P06-022
- SEPN1, an endoplasmic reticulum-localized selenoprotein, counteracts induced by ligand binding
- Beatriz Castro Bohórquez (Granada, Spain)

P06-023
- The interaction between heat shock response and small RNA biogenesis in Drosophila melanogaster
- Sara Haag (Göttingen, Germany)

P10
- Redox-Regulation of Biological Activities

P10-001-SP
- SEPN1, an endoplasmic reticulum-localized selenoprotein, counteracts hypoxia by means of redox-regulating SERCA2 pump activity
- Ester Zito (Milan, Italy)

P10-002-SP
- Calmodulin-sensitive NAD kinase controls animal NADP biosynthesis
- Mathias Ziegler (Bergen, Norway)

P11
- Extrinsic and Intrinsic Regulation of Cellular Growth Control

P11-001-SP
- Control of nutrient signaling and protooncospassage by P38K-C2-mediated P38J,4P2 synthesis
- Andrea Marat (Berlin, Germany)

P11-002-SP
- Activation of CXCR chemokine receptor 4 by lactoferrin
- Yoshiharu Takayama (Tsukuba, Japan)

P11-003-SP
- Structural insights into conformational changes of Apo2/3 complex, induced by ligand binding
- Natalia Simionescu (Bucharest, Romania)

P11-004-SP
- Allosteric regulation of insulin receptors by membrane lipids
- Theresa Gutmann (Dresden, Germany)
P11-006-SP  □ Three to stick with: Interactions of the Bazooka PDZ domains with cell junction molecules Fabian Hirschber (Tubingen, Germany)
P11-007  □ Identification of multiple phosphoforms of the Lymphocyte Phosphatase Associated Phosphoprotein (LPPAP) by site-directed mutagenesis and mass spectrometry Tatiana Meshkova (Moscow, Russian Federation)
P11-009  □ Activity of Akt/mTOR pathway depends on type and time of hypertensive stimuli in the heart Tomasz Bednarski (Warsaw, Poland)
P11-010  □ Three roles of survivin in differentiation and malignant transformation Snihke Elsdokhen (Oulu, Finland)
P11-011  □ Screening of antibiotic producing actinomycetes from the sediments of undisturbed forest areas of Aseila, Ethiopia and its hyperactivity after mutation Pakkanathan Ashokkumar (Sokoto, Nigeria)
P11-012  □ The cytotoxicity of different PMMA/Hydroxyapatite nano-composites Baguman Yilmaz (Balkesic, Turkey)
P11-013  □ Influence of snake venom Phospholipase A2 on RPE-1 cells – multiple biological roles of sPLA2 Svetla Petrova (Sofia, Bulgaria)
P11-014  □ Aquaporin-1 plays important role in proliferation by affecting cell cycle progression Ana Galin-Cobo (Sevilla, Spain)
P11-015  □ Ouabain and Rho-kinase stimulate binding induce different conformations of Na,K-ATPase Elzaveta Klimanova (Moscow, Russian Federation)
P11-016  □ Oxidative stress and cell death are enhanced by N-3 polyunsaturated fatty acids incorporation in breast cancer cells Paola Antonio Corsetto (Milano, Italy)
P11-017  □ The α-1 subunit of Na+/K+-ATPase is a key component in the osmotic adaptive response of nucleus pulposus intervertebral disc cells Dimitris Ktetas (Athens, Greece)
P11-018  □ Analysis of the molecular mechanisms involved in the control of lung fibroblasts growth during exposure to silicon-based quantum dots Mirona Stan (Bucharest, Romania)
P11-019  □ UPRAP1 inhibits vascular endothelial growth factor-induced migration and angiogenesis via the VEGFR2-dependent pathway in human retinal endothelial cells Carla Motta (Catania, Italy)
P11-020  □ N-Glycosylation as determinant of Epidermal Growth Factor Receptor conformation in membranes Unal Coskun (Istanbul, Turkey)
P11-021  □ The alkaloid (-)-roemerine blocks carbohydrate uptake in Escherichia coli Biema Sanjar Akbulut (Istanbul, Turkey)
P11-022  □ Thymic Stromal Lymphopoietin (TSLP) and its receptor as targets for the development of anti-inflammatory and anti-leukemic inhibitory agents Jva Markovic (Jena, Germany)
P11-023  □ Silencing of Carboxin amphoteryhade 9 and Tetrospain-8 reduced caused decrease at invasion capacity of human Pancreatic Carcinoma (PANC-1) cells Minve Karaman (Balkesic, Turkey)
P11-024  □ Effects of high doses of IL-2 on the inhibition of cervical cancer cells proliferation Isabel Seto-Cruz (Mexico City, Mexico)
P11-025  □ Characterization of B16 F10 cells in culture by electrophoresis Iula Roates (Bucharest, Romania)
P11-026  □ Toll-like receptor-4 (TLR4) in the expression of ICAM-1 and VCAM-1 in cardiac fibroblasts and myofibroblasts Lorena Garcia (Santiago, Chile)
P11-027  □ Putrescine defect leads to G1-phase cell cycle arrest by methylglyoxal accumulation Mih-Aju Kwak (Seoul, Republic of Korea)
P11-028  □ EBRI promotes p53 independent apoptosis in colon carcinoma cell lines Uulu Ozen (Istanbul, Turkey)

P12  Lipid Signaling and Dynamics
P12-001-SH  □ Dual targeting of Pi3K and SHP1 for a synergistic inhibition of IgG mediated mast cell activation Fabrizio Bodotteri (Basel, Switzerland)
P12-002-SH  □ Stomatin enriched Lipid rafts are required for Salmonella Typhimurium clustering near the Golgi apparatus after invasion of epithelial cells Dora Kazayan (Utrecht, Netherlands)
P12-003-SH  □ Regulation of endosymbiotic AIPGEFs by membranes Moheli Zehnouf (Cachan, France)
P12-004-SH  □ PIP3-dependent ER-endoosome contacts in endosome positioning and protrusion outgrowth Harald Stenmark (Oslo, Norway)
P12-005-SP  □ Cooperation of CD14 and PI(4,5)P2 generation during stimulation of cells with LPS Agnieszka Płodziennikowska (Warsaw, Poland)
P12-006-SP  □ Characterization of the Ca2+ and phosphoinositide-binding sites of the C2 domains of Rabphilin 3A María Dolores Pérez-Sánchez (Murcia, Spain)
P12-007-SP  □ New insights into the underlying mechanisms of Niemann-Pick disease type A/B Cristina-Marta Reimann (Jena, Germany)
P12-008-SP  □ SNX9 regulates fusin adhesion disassembly during cell migration Atbyabe Zhurbancha (Astana, Kazakhstan)
P12-009  □ Corrective effect of N-stearoylethanolamine on pancreas phospholipid imbalance in rats with obesity-induced insulin resistance Aleksandria Doroshchenko (Kyiv, Ukraine)
P12-010  □ Fastigium-induced changes of hepatic lipid and carbohydrate stores in the absence of GLUT2 Ana Soares (Lausanne, Switzerland)
P12-011  □ Quantitative analysis of dynamic patmoylation in human T cells Elliot Morrison (Berlin, Germany)
P12-012  □ Regulation and signaling mechanism of cancer cell migration by TGF-β receptors and ceramide metabolism Sahil Gencer (Istanbul, Turkey)
SREBP-2 upregulates PNPLA8 expression to increase autophagy

Functional analysis of GPI transamidase with molecular phylogenetic tree

Sphingolipid destruction in HOCl-treated red blood cells

Regulation of astrogliocytes functions by trans-2-hexadecenal

Small-angle scattering studies of phospholipids phase transition in membrane proteins

The polyphenol curcumin mitigates lysosomal cholesterol trafficking impairment

Characterization of AnNce102 and its role in eisosome stability and macrophase migration

Effects of EPA and DHA on the HaCaT keratinocyte cell line

Effect of palmitoleic acid on the inflammatory phase of wound healing

Activation of gelatinases plays a key role in ceramide 1-phosphate-induced macrophase migration

Fructose feeding alters fatty acid profile in offspring exposed to excess folic acid during the perigestational period

Effect of analysis delay on vitamin D measurement by liquid chromatography-mass spectrometry

Molecular detection of linoleate isomerase gene in lactic acid bacteria

Effect of ionizing radiation on the glycohydrolases activities of mammary gland epithelial cells

The main endocannabinoid anandamide as signaling mediator mimicking systems

The role of intra-membrane sensing in controlling membrane homeostasis

A phosphoinositide conversion mechanism for exit from endosomes

The deletion of glycopeptidolipid in Mycobacterium smegmatis J15cs strain

Atherogenic Index (AI) as an indicator of atherosclerotic burden

Novel aspects of the contribution by the lipid A acyl groups to Toll-like receptor 4 activation by lipopolysaccharide

The P4-ATPase TAT-5 inhibits the outward budding of the plasma membrane

Examination of the role of the Sphingosine Kinases in Polymicrobial Sepsis

The membrane skeleton in lymphocyte activation –

Impact of drying processes on the fatty acid composition of Chlorella vulgaris

The apoptosis inducing effects of new flavonone derivatives in human prostate cancer cell lines

Human steroid sulfation pathways – a biochemical perspective

The deletion of glycopolipidolipid in Mycobacterium smegmatis J15cs strain affects morphology and survival in host cells

Discovering a disease associated biomarker "ANXA4" by proteome profiling:

The Atherogenic Index (AI) as an indicator of atherosclerotic burden among Rheumatoid Arthritis (RA) patients

Targeted Cancer Therapy

Autophagy is pivotal for Hodgkin’s and Reed-Sternberg cells’ survival revealing a new strategy for lymphoma treatment

DNA repair protein Rad51 is strongly affected by ataxia-mediated double phosphorylation on Y315 and Y54

Discovering a disease associated biomarker “ANXA4” by proteome profiling: Moving toward an understanding of tumor progression

Design, cytotoxicity and toxicity of new thiophene and thieno[2.3-b] pyridine derivatives

The apoptosis inducing effects of new flavonone derivatives in human prostate cancer cell lines
<table>
<thead>
<tr>
<th>POSTER SESSIONS</th>
<th>POSTER SESSIONS</th>
</tr>
</thead>
</table>
| **P15-010** | Bioorthogonal enzymatic cleavage of protection groups for prodrug activation  
Cornelia Ritter (Marburg, Germany) |
| **P15-011** | Therapeutic potential of fesitin and identification of its mechanisms in action in chronic myeloid leukemia and acute promyelocytic leukemia cells  
Ayşun Adın Gökbulut (İzmir, Turkey) |
| **P15-012** | AS203 induce epigenetic modification in NB4 cell line  
Ali Khaleghiyan (Semnan, Islamic Republic of Iran) |
| **P15-013** | Nanomedicine and drug delivery: enhancing nanoparticle efficacy through knowledge of their intracellular fate  
Angelina Planarèse (Dublin, Ireland) |
| **P15-014** | Factor of human milk promoting Fab-arms exchange: new approach to bispecific antibody production  
Sergey Sadykh (Novosibirsk, Russian Federation) |
| **P15-015** | Synthesis and cytotoxicity of fused thiophene, pyrazole derivatives derived from 2-N-benzoxymethyl-3-cyano-4,5,6,7-tetrahydridrobenzof[b]thiophene  
Wagrat Mansabian (Cairo, Egypt) |
| **P15-016** | Nucleic acid-based Ru(II) complexes as new anticancer agents  
Antonella Capuzzo (Naples, Italy) |
| **P15-017** | Effects of a fullerene/doxorubicin nanocomposite on the heart tissue of healthy rats  
Marina Seille (Belgrade, Serbia) |
| **P15-018** | Single oxygen and flavin-bimming fluorescent proteins: a deadly tandem in LOV  
Joaquim Torra (Barcelona, Spain) |
| **P15-019** | Modified PNA for splice blocking  
Matthias Vornbrüel (Vienne, Austria) |
| **P15-020** | Regulation of cathepsin B activity with nitroxoline derivatives  
Ana Mitrov (Ljubljana, Slovenia) |
| **P15-021** | Two directions of targeted destruction of cancer cells  
Amam Giarahandaryan (Yerevan, Armenia) |
| **P15-022** | Targeting cathepsin B in the tumour microenvironnement by inhibitory DARPin  
Lovno Kizmer (Ljubljana, Slovenia) |
| **P15-023** | Experimental regenerative effect of selenium compounds on the glioblastoma multiforme cells – in vitro  
Duysu Hemanci (Izmir, Turkey) |
| **P15-024** | Antitumor viral protein variant selectively cytotoxic for cancer cells when exogenously added  
Santiago Ruiz Martínez (Girona, Spain) |
| **P15-025** | Analysis of selective cytotoxicity for tumor cells of nuclear-directed human  
Duygu Harmanci (Izmir, Turkey) |
| **P15-026** | Nucleic acid-based Ru(II) complexes as new anticancer agents  
Antonella Capuzzo (Naples, Italy) |
| **P15-027** | Towards small molecule-based targeted delivery to immune cells  
Jessica Schulze (Potsdam, Germany) |
| **P15-028** | S1103Y-SCN5A alterations in tumors and normal tissues of patient with colorectal cancer  
Handan Tuncel (İzmir, Turkey) |
| **P15-029** | Interferon regulatory factor 5 as a therapeutic target in Hepatitis C virus-associated hepaticocellular carcinoma  
Oçge Cekık (İzvans, Turkey) |
<table>
<thead>
<tr>
<th>POSTER SESSIONS</th>
<th>Tuesday, July 7 &amp; Wednesday, July 8</th>
</tr>
</thead>
</table>

| P15-048 | □ Polymorphisms in the TOXI gene and hormone receptor status of breast cancer in Kazakh women  
Alena Neupokojieva (Almaty, Kazakhstan) |
| P15-049 | □ Improved anti-tumor activity of cytostatic drugs functionalized magnetite nanoparticles without application of high amplitude alternating magnetic fields  
Roxana Cristina Popescu (Mureș, Romania) |
| P15-050 | □ NDRG1 as a marker gene for acute hypoxia oxygenation conditions in the brain tumor environment  
Harun Said (Izmir, Turkey) |
| P15-051 | □ Hypoxia-induced CA9 targeting via different alternative approaches including sulfonamide derivative compounds in human brain cancer in vitro  
Harun Said (Izmir, Turkey) |
| P15-052 | □ Cross-talk between GHRH and EGFR in triple-negative breast cancer cells  
Ana Bajo (Alicante de Henares, Spain) |
| P15-053 | □ On-line SAW-biosensor-mass spectrometry as a powerful tool for studying biological complexes  
Mirea Díaz-Lobo (Barcelona, Spain) |
| P15-054 | □ Serum NEDD9 levels may have prognostic roles in patients with gastric cancer  
Derya Duranyildiz (Istanbul, Turkey) |
| P15-055 | □ Effects of novel gene delivery vector systems based on poly(vinyl benzyl trimethylammonium chloride) on A549 cell line  
Tanya Topuzova-Hristova (Sofia, Bulgaria) |
| P15-056 | □ Reversion of glioblastoma stem-like cells chemoresistance by adenosine A3 receptor blockade  
Angelo Torres (Valladolid, Chile) |
| P15-057 | □ Reduced expression of PNF43 is associated with the presence of somatic mutation and poor prognosis of cholangiocarcinoma patients  
Chutima Tabborn (Nakhon Ratchasima, Thailand) |
| P15-058 | □ Optimization of novel benzothiophene-3-carboxamide inhibitors of Aurora kinases  
Pál Gyulavári (Budapest, Hungary) |
| P15-059 | □ Loss of antiproliferative response attributed to ablated glucocorticoid receptor function in mouse skin carcinogenesis is compensated by N-bromosaccharine taurine  
Vassilis Zsounopoulos (Athens, Greece) |
| P15-060 | □ Identification and validation of angiotensin II type 1 receptor as a possible anti-cancer target in neuroendocrine tumors  
Samantha Exner (Berlin, Germany) |
| P15-061 | □ Apoptosis induction of 2H-chromene derivatives on human breast cancer cells  
Sussan Ardestani (Tehran, Islamic Republic of Iran) |
| P15-062 | □ Expression profiling of apoptotic proteins and their induction by Bcl-xL inhibitors in endometrial cancer cells  
Anna Gyulkhandanyan (Yerevan, Armenia) |
| P15-063 | □ Assessment of breast cancer and melanoma cells transmigration through blood-brain barrier by electron microscopy  
Raphatphorn Navakanitworakul (Hat Yai, Thailand) |
| P15-064 | □ Investigation of BAG-1’s effect in the regulation of autophagy  
Seong-Whan Jeong (Seoul, Republic of Korea) |
| P15-065 | □ Monte Carlo method DSAR modeling and docking study of Bcl-xL inhibitors  
Vassilis Zsounopoulos (Athens, Greece) |
| P15-066 | □ 5-aminolevulinic acid-based photodynamic therapy procedure affects matrix metalloproteinase 2 activity in surviving SW620 cancer cells  
Murat Serilmez (Istanbul, Turkey) |
| P15-067 | □ Do serum necrin-2 levels have a prognostic effect in patients with colorectal cancer?  
Krzysztof Szczepanowicz (Krakow, Poland) |
| P15-068 | □ Identification of extracellular effects of cisplatin promotes cytotoxicity towards drug resistant leukemic cells  
Daria Francuskevych (Kyiv, Ukraine) |
| P15-069 | □ ACE2 associated with pulmonary inflammation and MMPs activities in acute lung injury by bleomycin treatment  
Chih-Sheng Lin (Shenhu, Republic of China) |
| P15-070 | □ Apoptotic genes expression in human neuroblastoma cells after apoptotic inhibitors treatment  
Ana Bajo (Alicante de Henares, Spain) |
| P15-071 | □ Potential role of NLRK1 as a tumor suppressor and a predictor of sensitivity to oncolytic viruses  
Vassilis Zsounopoulos (Athens, Greece) |
| P15-072 | □ Importance of HGMB1 serum levels in breast cancer patients  
Murat Serilmez (Istanbul, Turkey) |
| P15-073 | □ Identification of a novel class of lysosomotropic REV-ERB antagonist as an innovative anticancer strategy  
Daria Francuskevych (Kyiv, Ukraine) |
| P15-074 | □ Evaluation of the major capsid protein of trichodysplasia spinulosa-associated poliovirus as a carrier for target epitopes  
Romina Jovanesi (Vienna, Austria) |
| P15-075 | □ Expression of G5ZB in colorectal carcinoma tissues  
Chih-Sheng Lin (Shenhu, Republic of China) |
| P15-076 | □ Cotyledon extract of Vatica diospyroides Symington type SS induces apoptosis in colorectal cancer cells  
Anna Gyulkhandanyan (Yerevan, Armenia) |
| P15-077 | □ Carbonic Anhydrases IX and XII as anticancer targets and their inhibitors  
Daria Francuskevych (Kyiv, Ukraine) |
| P15-078 | □ Evaluation of the biocompatibility of Gd-lymphotropic nanoparticles on RAW 264.7 cell line  
Antonina Poteryakhina (Moscow, Russian Federation) |
| P15-079 | □ Identification of a novel class of lysosomotropic REV-ERB antagonist as an innovative anticancer strategy  
Chih-Sheng Lin (Shenhu, Republic of China) |
| P15-080 | □ Complexation of porphyrins with transferrin for target delivery in tumor  
Luisa Ercolani (Genova, Italy) |
| P15-081 | □ miR-3158: a TAp73-induced target which inhibits epithelial-mesenchymal transition through downregulation of vimentin  
Raphatphorn Navakanitworakul (Hat Yai, Thailand) |
| P15-082 | □ Carbonic Anhydrases IX and XII as anticancer targets and their inhibitors  
Daria Francuskevych (Kyiv, Ukraine) |
| P15-083 | □ Intensification of extranuclear effects of cisplatin promotes cytotoxicity towards drug resistant leukemic cells  
Daria Francuskevych (Kyiv, Ukraine) |
| P15-084 | □ Cross-talk between GHRH and EGFR in triple-negative breast cancer cells  
Anna Gyulkhandanyan (Yerevan, Armenia) |
| P15-085 | □ The integrated analysis of gene expression profiles related with aquired cisplatin resistance  
Chih-Sheng Lin (Shenhu, Republic of China) |
| P15-086 | □ Polymorphism in the TOXI gene and hormone receptor status of breast cancer in Kazakh women  
Alena Neupokojieva (Almaty, Kazakhstan) |
Effects of alcohol consumption on DMH-induced rat colon cancer
Evangelia Koutsogiannou (Düsseldorf, Germany)

PKCα as a key switch in cancer signaling pathways
Sara Bashraheel (Doha, Qatar)

Effect of the bioactive components of Salvia absconditiflora on gene expression of HepG2 cell line
Ulrich Rothbauer (Reutlingen, Germany)

Increasing oncogenic potentials of viruses through optimization of codon usage characteristic to cancer cells
Dmitry Kochetkov (Moscow, Russian Federation)

The protective role of chlorophylline-Cu complex on N-methyl-N-nitrosourea-induced breast cancer model in Spraque Dawley Rats: Glutathione and DNA damage levels
Mehmet Özcan (Ankara, Turkey)

Oncolytic activity of non-pathogenic human enteroviruses in humanized sublines derived from rat glioma cells C6
Anna Maria Macri (Naples, Italy)

Generation and characterization of intracellular nanobodies to trace dynamic changes of endogenous vimentin in living cells
Ulrich Rothbauer (Reutlingen, Germany)

Effect of the bioactive components of Salvia absconditiflora on gene expressions of HepG2 cell line
Denzirim Kartal (Ankara, Turkey)

Permeability of membranes is more susceptible to hyperthermia in cancer cells as compared to normal cells lines
Vida Mildeziene (Kurais, Lithuania)

PKCaβis a key switch in cancer signaling pathways
Teresa Coronado-Parra (Murcia, Spain)

Effects of alcohol consumption on DMH-induced rat colon cancer
Fumio Shimamoto (Moriyama, Japan)

Drug delivery to human endothelial and glioblastoma cells by poly(methacrylic acid-graft-polyethylene glycol) coated magnetic nanoparticles
Evangelia Papadimitrou (Patras, Greece)

Targeted near infrared imaging of breast cancer xenografts using optimized CMKLR1-targeted peptide probes
Sarah Poenick (Berlin, Germany)

Activation of Beta-catenin/c-Myc signaling pathway by HN1 promotes growth and metastasis of Hepatocellular carcinoma cells
Soo Mi Kim (Seoul, Republic of Korea)

Nasal and genetically-modified hMSCs exhibit anti-proliferative effects on human cancer cells
Vassils Zoumpoulis (Athens, Greece)

Carbon nanotubes for efficient mitochondrial tumor targeting
Mani Bhargava (Kanpur, India)

Serum profile pattern in prostate cancer by proteomic analysis
Ionela Daniela Popescu (Bucharest, Romania)

The sensitivity of neuroblastoma cells to bisacodyl effect depends on the expression of KIT oncogene
Ksenia Bumrushieva (Moscow, Russian Federation)

Polyelectrolyte oil-core nanocarriers of up-converting NaYF4:Yb3+,Yb3+ nanocrystals for enhanced delivery and bioimaging in human ovarian carcinoma (SKOV3) cells
Ulzana Bazykova (Wrocław, Poland)

Targeting the breast tumor in mice model using undifferentiated mesenchymal stem cells and VEGFR-expressing endothelial-like cells
Maryam Adelipour (Tehran, Islamic Republic of Iran)

A novel immunotherapeutic and anti-cancer drug GA-40
Giorgi Alexidze (Tel Aviv, Georgia)

Antioxidant activities of Salvia fruticosa and its effects on HT-29 cell line
Abdul Rasyid (Athens, Greece)

Demonstration of apoptosis via TUNEL assay and Codon 72 Polymorphism of p53 gene of MCF-7 and MDA-MB-231 cell lines upon treatment of Docetaxel
Salin Oncül (Ankara, Turkey)

Approaches to Multiple Sclerosis therapy by selective autoreactive B-cells depletion
Alkisy Stephanos (Moscow, Russian Federation)

Identification and characterization of small molecule inhibitors targeting DNA polymerase gamma for the treatment of cancers deficient in mismatch repair
Cevriye Pamukcu (Istanbul, Turkey)

Production of sugar-1-phosphates using nucleoside phosphorylases
Sarah Kamel (Berlin, Germany)

UV-Vis absorption studies of serum albumin binding with poly(D,L-lactide) nanospheres stabilized with Cremophor EL and loaded with hydrophobic cyanines
Sona Mohammadi-Ostad-Kalayeh (Hannover, Germany)

Identification and characterization of small molecule inhibitors targeting DNA polymerase gamma for the treatment of cancers deficient in mismatch repair
Cevriye Pamukcu (Istanbul, Turkey)

Production of sugar-1-phosphates using nucleoside phosphorylases
Sarah Kamel (Berlin, Germany)

 production of protein therapeutics for cancer treatment: Cloning, expression and molecular characterization of four superantigens
Mehmet Özcan (Ankara, Turkey)

Increasing oncolytic potentials of viruses through optimization of codon usage characteristic to cancer cells
Dmitry Kochetkov (Moscow, Russian Federation)

The protective role of chlorophylline-Cu complex on N-methyl-N-nitrosourea-induced breast cancer model in Spraque Dawley Rats: Glutathione and DNA damage levels
Mehmet Özcan (Ankara, Turkey)

Oncolytic activity of non-pathogenic human enteroviruses in humanized sublines derived from rat glioma cells C6
Anna Maria Macri (Naples, Italy)

Generation and characterization of intracellular nanobodies to trace dynamic changes of endogenous vimentin in living cells
Ulrich Rothbauer (Reutlingen, Germany)

Effect of the bioactive components of Salvia absconditiflora on gene expressions of HepG2 cell line
Denzirim Kartal (Ankara, Turkey)

Permeability of membranes is more susceptible to hyperthermia in cancer cells as compared to normal cells lines
Vida Mildeziene (Kurais, Lithuania)

PKCaβis a key switch in cancer signaling pathways
Teresa Coronado-Parra (Murcia, Spain)

Effects of alcohol consumption on DMH-induced rat colon cancer
Fumio Shimamoto (Moriyama, Japan)

Drug delivery to human endothelial and glioblastoma cells by poly(methacrylic acid-graft-polyethylene glycol) coated magnetic nanoparticles
Evangelia Papadimitrou (Patras, Greece)

Targeted near infrared imaging of breast cancer xenografts using optimized CMKLR1-targeted peptide probes
Sarah Poenick (Berlin, Germany)

Activation of Beta-catenin/c-Myc signaling pathway by HN1 promotes growth and metastasis of Hepatocellular carcinoma cells
Soo Mi Kim (Seoul, Republic of Korea)
**Poster Session 2**

**Functional Glycobiology – from Mechanism to Disease**

**P16-001-SH**
- Collagen glycation and deglycation. Candidate locations of collagen non-enzymatic glycation and characterization of an Arabinosidase enzyme for its prevention
  - Alfredo Gualtieri (Milan, Italy)

**P16-002-SH**
- Structure, function and biosynthesis of a new class of human N-glycosylated neuropilin proteins in pathogen-infected spumum
  - Morten Thyssen-Andersen (Sydney, Australia)

**P16-003-SF**
- Biosensing of intact glycosylphosphatidylinositol-anchoered proteins in serum as biomarkers for stress-induced diseases
  - Günter Müller (Garching-Hochbrück, Germany)

**P16-004-SF**
- Interaction analysis between sugar chain and aromatic residue in mammalian protein
  - Kenji Etchuya (Kanagawa, Japan)

**P16-005-SF**
- Analysis of GOLPH3 depletion on protein glycosylation in human glioblastoma multiforme T98G cells
  - Gonzalo Mardones (Valdivia, Chile)

**P16-006-SF**
- Nanoscale self-assembled multivalent (SAMu) heparin binders: promising clinical tools
  - Ana Rodríguez (York, United Kingdom)

**P16-007**
- Distribution of myophosphorylase in muscle development using zebrafish as a research model
  - Anna Kosieradzka (Wroclaw, Poland)

**P16-008**
- Glycosaminoglycans – from abstract knowledge to the use of knowledge in clinical medicine
  - Maryna Knyazyeva (Kharkov, Ukraine)

**P16-009**
- Structure and specificity of lectin from bacterium Burkholderia pseudomallei
  - Peta Sjøli-Mikkelsen (Oslo, Norway)

**P16-010**
- Expression of Schistosomas mansoni Sm21.7 protein in Picha pastoris and the subsequent immune response in mice
  - Mahmoud Romah (Giza, Egypt)

**P16-011**
- Sialic acid – risk marker for diabetes complications; Modifications according to gender and age in patients with type 2 diabetes
  - Georgiana Damache (Constanța, Romania)

**P16-012**
- New potential drugs with multiple therapeutically effects obtained from small sea fish
  - Natalia Rosou (Constanța, Romania)

**P16-013**
- Effect of Fabacaeae (Fabaceae officinalis L.) consumption on levels of blood glucose, lactic and lipoproteins in streptozotocin-induced diabetic rats
  - Mehmet Pashazadeh (Bursa, Turkey)

**P16-014**
- Specific expression of O-glycoprotein glycans in cholangiocarcinoma cell lines
  - Kjallang Talavón (Nakhon Ratchasima, Thailand)

**P16-015**
- Lectin activity among Phaseolus vulgaris cultivars
  - Erka Deragahna (Almaty, Kazakhstan)

**P16-016**
- The role of the mmp2 and mmp9 in progression of atherosclerosis with type II diabetes mellitus patients
  - Dursun Ayan (Istanbul, Turkey)

**P16-017**
- the relationship between diabetes, atherosclerosis and serum PAI-1, MCP-1, vistatin, resistin levels
  - Steher Yıkist (Ankara, Turkey)

**P16-018**
- Indoleamine 2,3-dioxygenase related metabolic effects of 3-amino-3-carboxyamide and infirmib in lung tissue of experimental colitis model
  - Duygu Sarın (Ankara, Turkey)

**P16-019**
- X-ray structure of recombinant non-glycosylated FAD glucose dehydrogenase derived from Aspergillus flavus
  - Hiroshi Yoshida (Miw, Japan)

**P16-020**
- Determination of exopolysaccharide production in lactic acid bacteria isolated from Turkish local yogurt
  - Asiya Asa Emirey (Turin, Turkey)

**P16-021**
- Multiple approaches to characterise e1-1-1-1-glycopeptide in pancreatic cancer
  - Meretwalm Brálna (Geneva, Spain)

**P16-022**
- Role of sialyltransferase expression in breast cancer progression and metastasis
  - Kaya Bari (Neufl, Germany)

**P16-023**
- Efficacy and immunogenicity of an insect cell-derived virus-like particle vaccine for avian influenza H7N9 virus in mice
  - Miriam Kläuserber (Henna, Austria)

**P16-024**
- Immunological Biomarkers Eluted in Female Rats Administered with Pro-Fertility Extract of Anthocleista Vogellii
  - Olugbenga Oladimeji (Lagos, Nigeria)

**P16-025**
- Sargyn promotes breast cancer cell aggressiveness via up-regulation of the expression of proteolytic enzymes and controls osteoclastogenesis
  - Marina Lampronikou (Larisa, Greece)

**P16-026**
- Increased expression of sargyn in solid tumors and aggressive cancer cell lines
  - Arginos Nous (Larisa, Greece)

**P18**
- Signal Transduction in Tumor Development, Differentiation and Immune Escape

**P18-001-SH**
- Reconstitution of TGFβ2-mediated signaling causes upregulation of GDF-15 in colorectal cancer cells
  - Jan Berger (Heidelberg, Germany)

**P18-002-SH**
- The Damaged DNA Binding 2 protein: a new modulator of TGF-β signaling pathway and membrane nanomechanics in breast cancer cells
  - Claire Barblique (Vandoeuvre les Nancy, France)
P18-003-SH  □ Secretory factors regulating cell aging: the role of exosomes in H-Ras-Induced Senescence
  Krzysztof Sagi (Perugia, Italy)

P18-004-SH  □ Phosphorylation of HIF-1α and its role in metabolic reprogramming under hypoxia
  George Simos (Larissa, Greece)

P18-005-SH  □ Chronic stress suppresses autophagy and affects spontaneous differentiation of bone marrow stromal cells
  Zvezdana Husak (Vienna, Austria)

P18-007-SP  □ Activation and repression by oncogenic Myc shape tumor-specific gene expression profiles
  Elmar Wolf (Würzburg, Germany)

P18-008  □ Expression of pro- and anti-angiogenic genes in U87 glioma cells is regulated by ERK1/2-mediated endoplasmic reticulum stress
  Katerina Kubachuk (Kyiv, Ukraine)

P18-009  □ Dioxin receptor (AhR) transcription factor modulates hepatocytes polykaryosization, stem cells maintenance and regeneration in liver mice presumably via HIF/Beta-catenin pathway
  Nuna Marri (Badajoz, Spain)

P18-010  □ Aldolase dehydrogenase requires dioxin receptor knock-down to promote melanoma tumorigenesis
  Maria Contador (Badajoz, Spain)

P18-011  □ Treatment of certain types of carcinomas by drugs from natural source
  Inessa Avagyan (Yerevan, Armenia)

P18-012  □ The dioxin receptor downmodulation enhances cell reprogramming of somatic cells into induced pluripotent stem cells (iPScs)
  Eva Rico Leo (Badajoz, Spain)

P18-013  □ IRF5 activates the apoptotic pathway in HCV infected hepatoma cells
  Ozge Cevik (Sivas, Turkey)

P18-014  □ Berberine inhibits proliferation by cell cycle arrest at the G2/M phase via PI3K/Akt and p38 kinase in HTB-94 human chondrosarcoma cell line
  Song-Ja Kim (Gongju, Republic of Korea)

P18-015  □ Fadl104, a positive regulator of adipogenesis, inhibits invasion and metastasis of cancer cells through the suppression of STAT3 activity
  Daisi Katoh (Nagoya, Aichi, Japan)

P18-016  □ Carboxyl-terminal of TGF-β1Ec variant induces proliferation and migration of ERα breast cancer MCF-7 cells via ERK signaling
  Panagiotis Christopoulos (Athens, Greece)

P18-017  □ Mitochondrial dysfunction induces EMR through the TGF-β/β3Smad/Smad1 signaling pathway in HepG2 hepatocellular carcinoma cells
  Eui-Heun Yi (Busan, Republic of Korea)

P18-018  □ The role of KDM5A in mature adipocytes
  Makoto Nishizuka (Nagoya, Aichi, Japan)

P18-019  □ Ceramide 1-phosphate stimulates cell migration in pancreatic cancer cells
  Katsuyuki Ishihara (Nagoya, Aichi, Japan)

P18-020  □ The level of HIF1 expression and its phosphorylation status do not correlate with migration efficiency of melanoma and breast cancer cells
  Agnieszka Tomaszon (Gliwice, Poland)

P18-021  □ The role of fasD24, a positive regulator for adipogenesis, in early embryonic development and muscle cell activation
  Natsumi Ochiai (Nagoya, Aichi, Japan)

P18-022  □ Tetrastatin C9D and C9D62 negatively regulate epithelial-to-mesenchymal transition, anoikis resistance, and stemness of human prostate cancer cells
  Hansoo Lee (Chuncheon, Republic of Korea)

P18-023  □ The inhibition of b-catenin and akt reduced the binding of Peo-1 cells to fibronectin
  Seda Sari Kılıççan (Eskişehir, Turkey)

P18-024  □ Metabolic adaptation of human bronchial smooth muscle cells to hypoxia involves HIF-1α and its regulation by CK1δ/ε
  Efrosyni Paraskeva (Larissa, Greece)

P18-025  □ Development of peptide inhibitors that target the ERK-dependent function of HIF-1α
  Abbas Mybris (Larissa, Greece)

P18-026  □ Structural characterization of the angiopoietin receptor, a newly identified pattern recognition receptor
  Anne Strim (Berlin, Germany)

P18-027  □ Repression of HNF4α nuclear receptor expression promotes malignant properties of human pancreatic ductal adenocarcinoma cells
  Mikhail Cherepokov (Moscow, Russian Federation)

P18-028  □ Elevated circulating endothelial-derived apoptotic microparticles are associated with tumor invasion and poor prognosis of hepatocellular carcinoma
  Jolanta ZuevJA-Jaglo (Hiroiwa, Poland)

P18-029  □ Polymorphism in the Kaposi’s Sarcoma-associated Herpes virus G-protein coupled receptor
  Anir Bar (Cape, Town, South Africa)

P18-030  □ HIFα induces the expression of pro-fibrotic, EMT and fibrosis marker genes in hepatocellular carcinoma cells
  Eleni-Anastasia Trantafyllou (Larissa, Greece)

P18-031  □ NF-kB, IκB, and EGFR behavior at early stages of a tricnic nitritolriacetate-induced renal cell carcinoma experimental model
  Telma Parente Perez (Mexico, Mexico)

P18-032  □ Morphological and biochemical alterations in the spleen caused by immunomodulatory compound cucumarioside A2
  Eugeniy Prilipayn (Kiev, Ukraine)

P18-033  □ Pro-angiogenic activity of macrophage inhibitory cytokine-1 secreted from tumor cells under hypoxic conditions
  Haisoo Lee (Chuncheon, Republic of Korea)

P18-034  □ Cq-cGMP/cGMP-stimulated macrophage migration
  Do-Shik Kim (Seoul, Republic of Korea)

P18-035  □ DNA damage signaling in mesenchymal stem cell differentiation
  Laszlo Virag (Debrecen, Hungary)

P18-036  □ Dual role of calpains in murine mammary gland involution after lactation: involvement in pregnancy-associated breast cancer
  Rosalba Zanagoli (Valencia, Italy)

P18-037  □ PARP-1 Expression and ERK Activation are negatively modulated by PJ-34 in an in vitro model of Glioma-Conditioned Blood Brain Barrier
  Floriana D’Angeli (Catania, Italy)

P18-038  □ TGFB1-induced migration of adenocarcinoma of the lung by Smad-dependent and -independent mechanisms
  Andre Menke (Gießen, Germany)

P18-039  □ Role of KIT signaling in survival of neuroblastoma cells
  Timofey Lebedev (Moscow, Russian Federation)

P18-040  □ Effect of microenvironment on Imatinib resistance of K562 cells
  Inesa Avagyan (Yerevan, Armenia)

P18-041  □ CCAAT/enhancer binding protein-β regulates HIF-1α expression
  Evgeny Pislyagin (Vladivostok, Russian Federation)
Tuesday, July 7 & Wednesday, July 8

**Poster Session 2**

**P21**

Mechanisms of Nervous System Development and Regeneration

- P21-001-SH  Manipulating recycling endosomes to increase axon regeneration in the CNS
  - Richard Eva (Cambridge, United Kingdom)

- P21-002-SH  Loss of Sad kinases results in different phenotypes during hippocampal and cortical development
  - Prabha Dhurmale (Muenster, Germany)

**P23**

Molecular Architecture and Assembly of the Synapse

- P23-001-SH  Analysis of a PEST KD-mouse line for changes in the central nervous system
  - Judith Klose (Hamburg, Germany)

- P23-002-SH  Dendritic spines are initiated by MIM-induced membrane bending
  - Piri Houbanian (Helsinki, Finland)

- P23-003-SH  Dynamic of presynaptic calcium channels
  - Martin Heine (Magdeburg, Germany)

- P23-004-SH  Role of the Dlg scaffold complex in Ca2+-homeostasis at glutamatergic NMJs
  - Ulrich Thomas (Magdeburg, Germany)

- P23-005-SP  Overlapping functions of stonin 2 and SV2 in sorting of the calcium sensor synaptotagmin 1 to synaptic vesicles
  - Natalie Kaimpf (Berlin, Germany)

- P23-006-SP  Comparison of synaptic connectivity in iPSC – derived neurons from patients with schizophrenia and autism
  - Leno-Marie Grunwald (Reutlingen, Germany)

- P23-007-SP  Diffusional spread and confinement of newly exocytosed synaptic vesicle proteins
  - Niclas Gimber (Berlin, Germany)

- P23-008-SP  Regulation of PSD-95 MAGUK scaffold assembly
  - Nils Raschmacher (Berlin, Germany)

- P23-009  Glutamate concentration at hippocampal excitatory synapses: establishment by deterministic dynamical modeling
  - Manya Hlatsevich (Minsk, Belarus)

- P23-010  Analyzing the interplay between MuSK dependent signaling and the cytoskeleton during neuromuscular synapse formation
  - Bahar Camurdanoglu (Vienna, Austria)

- P23-011  FGF22-induced activation of the PI3K/Akt and Erk signaling pathways
  - Maryna Hliatsevich (Minsk, Belarus)

- P23-012  Multicolor ‘caged’ dSTORM resolves the ultra-structure of synaptic vesicles in the brain
  - Jan Schmaranzer (Berlin, Germany)

- P23-013  Adenosine A1 and A2A receptor heterotetramers simultaneously bind to Gi and Gs protein
  - Lena-Marie Grunwald (Reutlingen, Germany)

- P24  Control of Neuronal Function by Regulating Protein Homeostasis

- P24-001-SH  Loss of the neuron-specific F-box protein FBXO41 models an ataxia-like phenotype in mice with developmental defects and degeneration in the cerebellum
  - Judith Stegmüller (Göttingen, Germany)

- P24-002-SH  Activity-dependent regulation of proteasomes at presynapse
  - Anna Fjétopa (Magdeburg, Germany)

- P24-003-SP  Vaccinia-related kinase 2 controls eukaryotic chaperonin TRiC/CCT stability by inhibiting Ubiquitine-specific protease 25
  - Dohyun Lee (Pohang, Republic of Korea)

- P24-004-SP  Dysfunction of PLC-gamma1 contributes to the development of neuropsychiatric disorders
  - Yong Ryoul Yang (Ulsan, Republic of Korea)

- P24-005-SP  Unfolded Protein Response in Parkinson’s disease: a new neuroprotective role for Glutathione S-Transferase pi
  - Mario Garra (Lisbon, Portugal)

- P24-006-SP  Activity-dependent regulation of proteasomes at presynapse
  - Anna Fjétopa (Magdeburg, Germany)

- P24-007  Tryptophan hydroxylase gene involvement in the serotonergic abnormality of autism spectrum disorders: A genetic and genotype-phenotype correlation study
  - Asem Singh (Bangalore, India)

- P24-008  Alterations in functional status of rat brain mitochondria under circadian rhythm disorders
  - Jurab Kuchkarshv (Tbilisi, Georgia)

- P24-009  Neuroprotective effect of Mycophenolate mofetil against Tacrolimus induced brain failure in rats
  - Hanan Farajani (Monastir, Tunisian Republic)

- P24-010  Orexin–CRF1-sigma-1 complexes as targets for cocaine
  - Gemma Navarro Brugal (Barcelona, Spain)

- P24-011  Blood–Brain barrier differences between white and grey matter
  - Maria Suciu (Arad, Romania)
**Poster Session 2**

**P24-012**
- Design and synthesis of novel 2-pyrazoline analogues and their HMAO inhibitory activities
  - Gulbark Ucar (Ankara, Turkey)

**P24-013**
- Discontinuous morphine administration evokes reliable changes in the neuroactive amino acid pools and biogenic amines in rat brain regions
  - Hanna Yihitiska (Grodno, Belarus)

**P24-014**
- Purified calpain hydrolysates the hexapeptidyl analogue of C-terminal fragment of Substance P
  - Wiesiołek Antoni Turski (Rzeszów, Poland)

**P24-015**
- Implication of the Na+/Ca2+ exchanger to the fine tuning of the neurosecretory process of GABA
  - Olga Krupko (Kyiv, Ukraine)

**P24-016**
- Sultophane counteracts neurodegeneration induced by glycative stress in SH-SYSY cells
  - Benedetta Rizzo (Bologna, Italy)

**P24-017**
- New mechanisms of receptor-based pharmacological effects of regulatory peptides
  - Tatiana Vyurnova (Moscow, Russian Federation)

**P24-018**
- The effect of the Cypereus rotundus tepan, alpha cyperone, on the Polymerization of Microtubules, in vitro as an indicator of memory
  - Azam Amni (Tehran, Islamic Republic of Iran)

**P24-019**
- Thrombin mediates migration of SK-N-SH cells via PLC, Ca2+, CalH/K+, PKCa, and NF-kB-dependent matrix metalloproteinase-9 expression
  - Chien-Chung Yang (Taoyuan, Republic of China)

**P24-020**
- Rat brain proteome changes induced by cute and chronic stress
  - Anna Kudriaeva (Moscow, Russian Federation)

**P24-021**
- Neuropeptides, age and food availability affect the level of sugars in the haemolymph of tenbriinoid beetles
  - Pawel Marczak (Poznan, Poland)

**P24-022**
- Myelin basic protein binds the Von Willebrand domain of ubiquitin receptor Rpn10 to enable ubiquitin-independent proteasomal degradation
  - Anna Kudriaeva (Moscow, Russian Federation)

**P24-023**
- Epigenetic effect of Trichostatin A on attenuating neuroinflammation and cognitive dysfunction in septic mice
  - Ching-Hua Yeh (Changhua, Republic of China)

**P26**

**Interspecies Communication**

**P26-001-SH**
- Genetic dissection of the potential pattern recognition receptor IGlar-2 for Enterohemorrhagic Escherichia coli immunity in Caenorhabditis elegans
  - Chang-Shi Chen (Tainan, Republic of China)

**P26-002-SH**
- Role of the intestinal Muc2 mucin in the Vibrio cholerae quorum sensing responses along the intestinal tract
  - Robert Hijas (Santiago, Chile)

**P26-003**
- Adaptation and communication – the keys for survival in bacterial world
  - Info Batista Guinote (Lisboa, Portugal)

**P26-004**
- Petri net based description and analysis of the autophagy of the bacterial pathogen Salmonella
  - Jennifer Scheidel (Frankfurt am Main, Germany)

**P26-005**
- Association of circulating Adiponectin and Leptin levels with medullary thyroid cancer
  - Alireza Aboshoahab (Tehran, Islamic Republic of Iran)

**P26-006**
- Cross talk between plants and bacteria – elucidating the role of smoke derived karrikins
  - Aviad Mandabi (Be’er Sheva, Israel)

**P26-007**
- Don’t stress out – linking bacterial quorum sensing with stress response in Saccharomyces cerevisiae
  - Antonia Delago (Be’er Sheva, Israel)

**P26-008**
- The regression analysis for interfacial tensiometry data of natural milk
  - Sergei Zaitsev (Moscow, Russian Federation)

**P26-009**
- Conformational epitopes of Candida albicans β-1,2 mannan revealed by monoclonal antibodies and their reactivity to Salmonella choleraesuis and Salmonella infantis
  - Cevahir Alkınkaya (Ankara, Turkey)

**P26-010**
- Characterization of Listeria monocytogenes strains isolated from food processing plants
  - Hana Dražovská (Bratislava, Slovakia)

**P29**

**Functional Networks Regulating Cellular Stress Responses and Ageing**

**P29-001-SH**
- A cell culture comparative biology approach to study mechanisms of genomic stability and its relevance for species longevity: a newer interpretation of SSBP1 nuclear tfc
  - Eleonora Croco (Bologna, Italy)

**P29-002-SH**
- Redox proteomics: from one residue modification to uncovering global redox-mediated cellular processes
  - Dana Reichmann (Jerusalem, Israel)

**P29-003-SP**
- A microfluidic platform for high-resolution imaging of single yeast cells with versatile environmental control
  - Gregor Schmidt (Basel, Switzerland)

**P29-004-SP**
- Angiogenin-mediated cell autonomous translational control under endoplasmic reticulum stress attenuates kidney injury
  - Chien-Chung Yang (Taoyuan, Republic of China)

**P29-005-SP**
- The crosstalk between NF-kB-dependent and HSF1-dependent pathways in response to heat shock
  - Anna Naumowicz (Gliwice, Poland)

**P29-006-SP**
- Histone methyltransferase SUJ4/9H1 is associated with protein kinase CK2 inhibition-mediated senescence in human cancer cells
  - Young-Seok Bae (Daejeo, Republic of Korea)

**P29-007**
- Replicative senescence of budding yeast starts after only a few divisions: the roles of mitochondria
  - Maksim Sorokin (Moscow, Russian Federation)

**P29-008**
- Distinct outcomes of Charcot-Marie-Tooth (CMT)-causing point mutations in Drosophila small heat shock protein Hsp70Bc
  - Jadwiga Jablonska (Wroclaw, Poland)

**P29-009**
- Study of protein S-nitrosylation and its role in plant development and pathogenesis
  - Anna Naumowicz (Gliwice, Poland)

**P29-010**
- Estrogens down-regulate RANKL/OPG ratio and sclerostin levels in starvation-induced apoptosis in osteocytes
  - Olga Krupko (Kyiv, Ukraine)

**P29-011**
- Age-related changes in antioxidant enzyme activities
  - Ramazan Bilgin (Adana, Turkey)

**P29-012**
- Induction of endoplasmic reticulum stress by sodium metabisulfi te on the Polymerization of Microtubules, in vitro as an indicator of memory
  - Anna Naumowicz (Gliwice, Poland)

**P29-013**
- Putative targets for extending lifespan and healthspan in mice
  - Gregor Schmidt (Basel, Switzerland)
<table>
<thead>
<tr>
<th>POSTER SESSIONS</th>
<th>POSTER SESSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tuesday, July 7 &amp; Wednesday, July 8</strong></td>
<td><strong>Tuesday, July 7 &amp; Wednesday, July 8</strong></td>
</tr>
</tbody>
</table>

| P29-014 | Comparative proteome analysis of differentially expressed proteins in serum of Hevea brasiliensis from Phytophthora resistant (PBRM/BC) clones Phatara-Om Havananap (Nakhonpathom, Thailand) |
| P29-015 | Antioxidant effects of peptidylprolyl cis-trans isomerase from Pseudomonas aeruginosa against hydrogen peroxide-induced oxidative stress in hepatocytes Taek-Jeong Nam (Busan, Republic of Korea) |
| P29-016 | Role of IAG3 on the nuclear shuttling of HSF1 under heat stressed conditions Soo-A Kim (Gyeonggi, Republic of Korea) |
| P29-017 | Molecular mechanisms of toxin-antitoxin regulation: the deactivating simplicity San-Hadi (Brussels, Belgium) |
| P29-018 | Investigation of free radical metabolism in septic rat’s liver tissues treated with Ilopolysaccharide; effect of vitamin D Mehmet Zaitir Ciraci (Kayseri, Turkey) |
| P29-019 | Determining the amount of ellagic acid extracted from Engli (Ottoman) strawberry and histopathological evaluation of possible protective effect of ellagic acid in streptozotocin – induced diabetic rat Mehmet Atabay (Zonguldak, Turkey) |
| P29-020 | Alterations of creatine levels in rat brain under stress conditions long-term social isolation George Burgjanaidze (Tbilisi, Georgia) |
| P29-021 | Thio-redoxin – an integrator parameter for pathogenic mechanisms involved in pediatric nonalcoholic fatty liver disease Bogdana Virolo (Bucharest, Romania) |
| P29-022 | The subtelom effects of etofenprox on zebrafish (Danio rerio) Aylin Septic-Oncel (Ankara, Turkey) |
| P29-023 | Inhibition of a protein kinase C (PKC) phospholipase D (PLD)-protein kinase CK2 (CK2) network stimulates cellular senescence through reactive oxygen species (ROS) generation Seong-Ho Park (Daejeon, Republic of Korea) |
| P29-024 | Effects of Monosodium glutamate on MDA, GSH and SOD concentrations in liver tissue of neonatal rats Aygen Cetin Kardesler (Denizli, Turkey) |
| P29-025 | Ginsenoside Rb1 rescues anxiety-like responses in a rat model of post-traumatic stress disorder Bombi Lee (Seoul, Republic of Korea) |
| P29-026 | Skin fibroblast pro-inflammatory and pro-inflammatory responses to advanced glycation and products: networks contributing to age-related diseases are regulated by Orai proteins Loredana Stanca (Bucharest, Romania) |
| P29-027 | Transcriptomic study of the heat shock response mechanisms of Astarias rubens starfish Anastasija Shezhkina (Dolgoprudny, Russian Federation) |
| P29-028 | Analysis of the expression dynamics of 29 stress-response genes of Drosophila melanogaster in response to low doses radiation Anastasija Shezhkina (Dolgoprudny, Russian Federation) |
| P29-029 | Cyclic tensile stress of human annulus fibrosus cells induces MAPK activation: involvement in proliferative status and pro-inflammatory gene expression Dimitris Kletas (Athens, Greece) |
| P29-030 | The role of oxidative stress in the lung toxicity depending on alpha amantia Ibrahim Kocic (Konya, Turkey) |
| P29-031 | The role of the alternative pathway of respiration in wheat seedlings (Triticum aestivum L.) in the condition of inhibition of cytochrome pathway under the influence of high temperature Anna Bizajka (Daugavpils, Latvia) |
| P29-032 | The effects of alpha-amanitin on oxidative stress parameters in cardiac tissue Ibrahim Kocic (Konya, Turkey) |
| P29-033 | Influence of polymorphisms C674T and C629T of vitamin D receptor on recuperation of burned patients Sandro Conde (Sao Roque, Brazil) |
| P29-034 | Oxidative/nitrosative stress and endoplasmic reticulum stress in ischemic acute renal failure Fadime Aydin Kose (Izmir, Turkey) |
| P29-035 | In vitro investigation of toxicity and specific activities of mud extracts Elena Codrici (Bucharest, Romania) |
| P29-036 | Cellular rejuvenation and ageing-proteome by Ginsenoside 20(S)-Rg3 Young-Rang Kim (Daegu, Republic of Korea) |

| **P30** | Systems Biology in Stem Cells |
| P30-001-SH | The tale of two tails Ho-Ryun Chung (Berlin, Germany) |
| P30-002-SH | Alternative splicing in the regulation of planarian stem cells in vivo Jong Sohna (Berlin, Germany) |
| P30-003-SP | Stem cells loaded nanobiorhymes for efficient chronic wounds healing Bianca Galeata (Bucharest, Romania) |
| P30-004-SP | Effect of chromium complexes with flavonoid quercetin on the adiogenic process Bianca Galeata (Bucharest, Romania) |
| P30-005 | Thin coatings based on biocompatible silver nanoparticles deposited by advanced laser processing for improved surfaces resistance to microbial biofilms Oana Furi (Bucharest, Romania) |
| P30-006 | Zinc levels in plasma of Tunisian women Myriam Heila (Tunis, Tunisia, Republic) |

<p>| <strong>P33</strong> | Channels and Transporters |
| P33-001-SH | First structural insights in the opening of Channelrhodopsin-2 Nils Krause (Berlin, Germany) |
| P33-002-SH | Evolutionary divergent lysine regulates electrostatic stoichiometric coupling and voltage dependence of the chloride/proton exchanger CIC-5 Alex Abalov (Hannover, Germany) |
| P33-007 | The genome packaging motor of nucleocytoplasmic large DNA viruses Tushar Ranjan (Mumbai, India) |
| P33-008 | The permeation of small inorganic ions and metabolites through VDAC is mediated by a charged-brush mechanism Eva-Maria Krammer (Brussels, Belgium) |
| P33-009 | Purification of MCT8 for structure determination Dorothy Gisela Bayer-Kuschi (Bonn, Germany) |
| P33-010 | Endogenous calcium channels formed by Orai proteins in HEK293 cells Anton Skopin (Saint-Petersburg, Russian Federation) |
| P33-011 | Insights into proton translocation in cytochrome cbb3 from large scale MD simulations Catarina Carvalheda (Dundee, United Kingdom) |
| P33-012 | Regulation of epithelial chloride transport by tyrosine phosphorylation Claudio Loureiro (Lisbon, Portugal) |</p>
<table>
<thead>
<tr>
<th>POSTER SESSIONS</th>
<th>Tuesday, July 7 &amp; Wednesday, July 8</th>
</tr>
</thead>
</table>

**Poster Session 1**

- **P33-033** - On one spider peptide inhibiting calcium channels of insects: structural features and activity-dispensable residues
  - Alexander Mikov (Moscow, Russian Federation)

- **P33-013** - Functional mapping of an Arginine cluster of the potassium inward rectifier channel Kir6.2 regulated by a fused G Protein Coupled Receptor
  - Maria Principali (Grenoble, France)

- **P33-015** - Biophysical analysis of Channelrhodopsin variants
  - Maria Walter (Berlin, Germany)

- **P33-016** - Role of Sec16A in the unconventional protein secretion pathway
  - He Piao (Seoul, Republic of Korea)

- **P33-017** - The effect of voltage-gated sodium channel on matrix metalloproteinase expression and activity in human breast cancer cells
  - Gulgun Oktay (Izmir, Turkey)

- **P33-019** - The diversity of light-driven proton pumps and their conversion into proton channels
  - Arend Voigt (Berlin, Germany)

- **P33-020** - Identification of gates of the potassium inward rectifier Kir6.2 channel controlled by regulatory membrane proteins
  - Gina Catalina Reyes Mejia (Grenoble, France)

- **P33-021** - Time-resolved spectroscopic characterisation of channelrhodopsin-1 from Chlamydomonas reinhardtii
  - Vera Muders (Berlin, Germany)

- **P33-022** - Effect of Ca2+ on Bacterial transmembrane channel 1 activity with 1-palmitoyl-2-oleoyl-sn-glycero-3-phosphocholine in surface films
  - Kirtika Mudavenina (Kolga, Bulgaria)

- **P33-024** - A defect of pacitaxel uptake in SLCO1B3 polymorphisms
  - Hyung Soon Park (Seoul, Republic of Korea)

- **P33-025** - D-glucose and insulin regulate the activity of equilibrative nucleoside transporters in renal glomerular cells
  - Sebastian Alarcón (Valdivia, Chile)

- **P33-026** - Acidic pH effect on electrophysiological behavior of a new chloride channel in endoplasmic reticulum
  - Farsaneh Astanpour (Tehran, Islamic Republic of Iran)

- **P33-027** - Comparison of the expression and functionality of P2X7 receptors sensitive to ATP and Bz-ATP activation at different cell lines
  - Agnieszka Krakowiak (Lodz, Poland)

- **P33-028** - Refolding of small monomeric outer membrane proteins
  - Simon Ebbinghaus (Bochum, Germany)

- **P33-029** - The Role of Clathrin-dependent endocytosis on the surface expression of the Sodium-dependent Vitamin C transporter 2 (SST2)
  - Adriana Covarrubias Pinto (Valdivia, Chile)

- **P33-030** - Evolution of the potassium chloride cotransporter subfamily: functional analyses of basal metazoans
  - Anna-Maria Hartmann (Oldenburg, Germany)

- **P33-031** - Protein translocation through mitochondrial channel: Single channel electrophysiology
  - Usha Lamichhane (Bremen, Germany)

- **P33-032** - Analysis of antiproliferative and antimetastatic effects of nNav 1.5 sodium channel and Notch-4 receptor inhibition
  - Canan Cakir Aktas (Izmir, Turkey)

**Poster Session 2**

- **P35-001-SH** - Structural studies of the N-terminal domains of the DNA Partitioning protein InoC from the plasmid R6K
  - Mohammad Rahman (Birmingham, United Kingdom)

- **P35-002-SH** - Laws of attraction and repulsion: structure and dynamics of a novel family of bacterial chemoreceptors
  - Anna Roujeinikova (Calyton, Australia)

- **P35-003-SH** - Proteins in vivo: From the test tube to the cell
  - Simon Ebbinghaus (Bochum, Germany)

- **P35-004-SH** - New insights of the reconstitution/activation process of the soluble glucose dehydrogenase with PQQ by combining crystallography, fluorescence quenching and stopped-flow experiments
  - Claire Stines-Chaumel (Pessac, France)

- **P35-005-SP** - Folding of right- and left-handed three-helix proteins
  - Okana Galkoyska (Pushchino, Russian Federation)

- **P35-006-SP** - The role of surface wettability and environmental conditions in Amyloid β conformational changes
  - Angelo Azzarolo (Kerobok, Italy)

- **P35-007-SP** - Photoactivation and signal transduction of Blue Light sensors Using FAD (BLUF)
  - Tilo Mathes (Amsterdam, Netherlands)

- **P35-008-SP** - Investigating partially unfolded conformations populated by monomeric human transynthin
  - Francesco Bemporad (Firenze, Italy)

- **P35-009-SP** - T-cell immune suppression by the cytoplasmic tail of the HIV gp41 envelope protein: Implications for a virus controlled T-cell on/off switch
  - Vera Muders (Berlin, Germany)
| PIS-010 | Allosteric regulation of human pyruvate kinase M2  
Meng Yuan (Edinburgh, United Kingdom) |
| PIS-011 | Inhibitory effect of β-casein on the amyloid fibril formation of Aβ1-40 associated with Alzheimer's disease  
Arzou Ghahrehsaz (Qazvin, Islamic Republic of Iran) |
| PIS-012 | pH-dependent conformational variations in Major Histocompatibility Complex class II (MHC-II) molecules  
Zeina El Hadre (Berlin, Germany) |
| PIS-013 | Dynamic interaction of the signal recognition particle receptor and the translocon  
Albana Draycheva (Göttingen, Germany) |
| PIS-014 | Inhibition of human pancreatic islet Amyloid Polypeptide aggregation and fibril formation by the molecular chaperone Hsp70  
Ali Chiari (Doha, Qatar) |
| PIS-015 | Cation/anion interaction as the catalytic mechanism found in β-amylin synthase  
Tatsuru Hoshina (Nagata, Japan) |
| PIS-016 | Mutations in the C-terminus tail of ribosomal protein L16 from Escherichia coli are crucial for its retention in the ribosome  
Artem Isaev (Pushchino, Russian Federation) |
| PIS-017 | The influence of the cytoplasmic juxtamembrane regions on the structural and dynamical properties of HER2 dimeric transmembrane domains and their connection with the activation mechanism  
Pavel Bragin (Moscow, Russian Federation) |
| PIS-018 | The cellular crowding effect: Spatial and temporal variations of the excluded volume effect  
David Gnut (Bochum, Germany) |
| PIS-019 | Mechanistic insights into the action of a bacterial protease inhibitor  
Irene Garcia Ferrer (Barcelona, Spain) |
| PIS-020 | Structural characterization of intrinsically disordered protein phosphocin and its complex with the 14-3-3 protein  
Dalibor Kosek (Prague, Czech Republic) |
| PIS-021 | Structural study of Whirlin, a crucial PDZ containing protein involved in the mechanotransduction of auditory hair cells  
Flavien Delhommet (Paris, France) |
| PIS-022 | Experimental and theoretical methods as a tool for the interpretation of lysozyme immobilization at a silica surface  
Monika Cwielka (Cracow, Poland) |
| PIS-023 | Structural Insights into a novel esterase  
Zsófia Rhee (Seoul, Republic of Korea) |
| PIS-024 | Molecular dynamics of Mycobacterium tuberculosis tyrosyl-tRNA synthetase with different substrates in the active site  
Vasil Mykulak (Kyiv, Ukraine) |
| PIS-025 | Generation and application of high productive diagnostic system for detection of serum level of interferon-α  
Oksana Gerbatuk (Kyiv, Ukraine) |
| PIS-026 | Revealing adsorption mechanism of human fibrinogen on positively charge latex  
Paulina Żeliszewska (Cracow, Poland) |
| PIS-027 | Secondary structure and calcium binding properties of C1q-like domain of α-defensin-1  
Rafał Holubowicz (Wrocław, Poland) |
| PIS-028 | 3D-structure and dynamics of cobra cardiotoxins: NMR and MD analyses  
Pavel Dubovski (Moscow, Russian Federation) |

| PIS-029 | Functional domains of lamin B receptor: Structure, dynamics and interactions  
Anastasia Poltou (Ioannina, Greece) |
| PIS-030 | Studying allosteric transitions of the pentameric ligand-gated ion channel Gluc using site-directed fluorescence  
Anais Manny (Paris, France) |
| PIS-031 | Mass spectrometry contribution to NMR protein structure characterization  
Elska Popová (Prague, Czech Republic) |
| PIS-032 | Stabilization of one domain of protein Gao by introduction of a cysteine bridge  
Gálna Nagyboh (Pushchino, Russian Federation) |
| PIS-033 | Importance of salt bridges in the dimer interface of Tpv shSHP14.3 for oligomerization and chaperone function  
Serina Kocabıyık (Ankara, Turkey) |
| PIS-034 | Molecular dynamics simulations of peptides containing charged aminoacid-repeats derived from intrinsically disordered protein sequences  
Metaxia Vlassi (Aigla Paralades-Attikis, Athens, Greece) |
| PIS-035 | Conformational dynamics of GW182 silencing domain and CNOT1 fragment as monitored by hydrogen-deuterium exchange mass spectrometry  
Maja Ciaplik-Rotowska (Warsaw, Poland) |
| PIS-036 | The LINK to regulating lysozyme levels in wheat  
Campedell Hogan (Melbourne, Australia) |
| PIS-037 | The structural basis of the TIP44α/b dodecamerization  
Anna Altayazayeva (Saint Petersburg, Russian Federation) |
| PIS-038 | Isolation of 10kDa and 24 kDa fragments of fibrinogen αC-domain and usage them as antigens for antibodies production to design test systems for soluble fibrin quantification  
Artem Dubovetski (Kyiv, Ukraine) |
| PIS-039 | The effects of α-tropomyosin Arg245Gly and Glu241Leu mutants on the structural states of actomyosin during the ATPase cycle  
Armen Simonyan (Saint Petersburg, Russian Federation) |
| PIS-040 | Interactions of Banana Lectin with Man9, toward design of the enhanced fi brillation  
Egor Zinovev (Dolgoprudniy, Russian Federation) |
| PIS-041 | Understanding the catalytic mechanism of Human serum paraoxonase 1-Combined mutagenesis and Molecular dynamics study  
Geetha Aggarwal (Mumbai, India) |
| PIS-042 | Fusion of purple membranes with lipidic cubic phase  
Gigor Znov (Dalnopolymer, Russia) |
| PIS-043 | Identification and functional significance of DNAJ1A1 as a novel interacting partner of human transglutaminase 2  
Alivan Ergun (Debrez, Hungary) |
| PIS-044 | Cysteine-depleted ghrilin receptor: a tool for ligand-binding investigations  
Stefan Emrich (Leipzig, Germany) |
| PIS-045 | TIP44α protein forms active rod-like structures in solution  
Arina Altayazayeva (Saint Petersburg, Russian Federation) |
| PIS-046 | Human fibrinogen monolayers under aqueous conditions  
Paulina Żeliszewska (Cracow, Poland) |
| PIS-047 | Active site dynamics of fl avin-dependent methylases  
Mareike Sonna (Palaisau, France) |
| PIS-048 | Spectroscopic studies on the structural changes in Human Serum Albumin upon 3-Hydroxyflavone binding immobilized on Silver Nanoparticles  
Marina Voicușcu (Bucharest, Romania) |
P36 Advances in Structural Biology – from Subcellular to Molecular Resolution

P36-001-SH □ Atom resolution structure of non-crystalline membrane proteins in lipid bilayers by magic-angle spinning nuclear magnetic resonance
Loren Andrees (Mézières, France)
P36-002-SH □ Structure of the bacterial phosphotriesterase from Pseudomonas aeruginosa, a key enzyme for the degradation of chlorinated hydrocarbons
Hannah Schäfer (Weinheim, Germany)
P36-003-SH □ Preventing oxidative damage at the early phase: The case of glucose oxidase
Dusan Petrovic (Beltgrade, Serbia)
P36-004-SH □ Structure of a-synuclein in human cells: a disordered monomer
Francois-Xavier Thierry (Berlin, Germany)
P36-005-SH □ The absolute arrangement of subunits in cytoskeletal septin filaments in cells measured by fluorescence microscopy
Helge Ewers (Berlin, Germany)
P36-006-SH □ Single-particle FRET analysis of nucleosome structure during transcription with RNA polymerase: Experimental systems and methodology
Alexey Fedotov (Moscow, Russian Federation)
P36-007 □ Anapleurosis of urethane in mouse bone marrow cells and potential recovery with lupin water extract
Ezzat Aboul-Ela (Cairo, Egypt)
P36-008 □ Light harvesting of bacteriorhodopsin and bacterial reaction center in generating electrochemical energy efficiency
Bernadette Akg (Bethesda, United States of America)
P36-009 □ Nanoscale structure of the Bmp antagonist Chordin supports cooperative BMP binding
Helen Troilo (Manchester, United Kingdom)
P36-010 □ Binding site for mRNAs on the s-vubunit of archaeal translation initiation factor 2
Valentina Arkhipova (Pushchino, Russian Federation)
P36-011 □ Investigation of RNA-binding properties and oligomerization behavior of Sso-like archaeal proteins
Helena Petkovic (Stuttgart, Germany)
P36-012 □ Structural and functional characterization of the mouse inhibitory C-type lectin-like receptor
Lucie Henrychova (Prague, Czech Republic)
P36-013 □ Regulation of mitochondria beta oxidation by non-enzymatic post-translational modifications
Stefania Henriques (Lisboa, Portugal)
P36-014 □ The Red Sea brine pools as source for enzymes of scientific and biotechnological interest on the example of a novel Mn2+ dependent alcohol dehydrogenase
Stefan Grötzinger (Garching, Germany)
P36-015 □ Crystal structure of the first bacterial diterpene cyclase and structure-based engineering of plasticity residues
Ronja Janeke (Berlin, Germany)
P36-016 □ ParmBSC1: State-of-the-art force-field for DNA simulation
Ivan Ivan (Barcelona, Spain)
P36-017 □ Structural and biochemical studies of a bacterial FIC toxin that hijacks human cellular traffic
Simon Vayron (Caen, France)
P36-018 □ Recombinant Bmp1 protein fragment expressed in E. coli influences the in vitro crystallization of CaCo3
Aleksandra Porokhova (Minsk, Poland)
P36-019 □ Impact of disease-causing mutations on emerin architecture at the inner nuclear envelope
Sophie Zinn-Justin (Gif-sur-Yvette cedex, France)
P36-020 □ Characterization of holiday junction intermediates in the vibrio cholerae Int4 integrate site specific recombination reaction
Mouna Touajj (Paris, France)
P36-021 □ Zinc-induced dimerization interface of the beta-amylid metal binding domain
Alexandra Kaulova (Moscow, Russian Federation)
P36-022 □ The histology and the cytology of the Brown Adipose Tissue of the Drosophila larvae (Fallon & Stuart, 1968) (MAMMALIA: RODENTIA) in Hibernation
Tahir Dikici (Corum, Turkey)
P36-023 □ DNA aptamers for malaria diagnosis – from crystal structure to clinical application
Julian Tanner (Hong Kong, People’s Republic of China)
P36-024 □ Effect of different types of mutations on the stability of the molten globule state of aminopeptidase
Blagdan Merkh (Pushchino, Russian Federation)
P36-025 □ Importance of Volumetric data of the human brain structure in a PTEN mutation positive Bannayan-Riley-Ruvalcaba Syndrome: A methodological analysis
Yasemin Soyasal (Izmir, Turkey)
<table>
<thead>
<tr>
<th>Poster Session 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P36-036</strong></td>
</tr>
<tr>
<td><strong>P36-037</strong></td>
</tr>
<tr>
<td><strong>P36-038</strong></td>
</tr>
<tr>
<td><strong>P36-039</strong></td>
</tr>
<tr>
<td><strong>P36-040</strong></td>
</tr>
<tr>
<td><strong>P36-041</strong></td>
</tr>
<tr>
<td><strong>P36-042</strong></td>
</tr>
<tr>
<td><strong>P36-043</strong></td>
</tr>
<tr>
<td><strong>P36-044</strong></td>
</tr>
<tr>
<td><strong>P36-045</strong></td>
</tr>
<tr>
<td><strong>P36-046</strong></td>
</tr>
<tr>
<td><strong>P36-047</strong></td>
</tr>
<tr>
<td><strong>P36-048</strong></td>
</tr>
<tr>
<td><strong>P36-049</strong></td>
</tr>
<tr>
<td><strong>P36-050</strong></td>
</tr>
<tr>
<td><strong>P36-051</strong></td>
</tr>
<tr>
<td><strong>P36-052</strong></td>
</tr>
<tr>
<td><strong>P36-053</strong></td>
</tr>
<tr>
<td><strong>P36-054</strong></td>
</tr>
<tr>
<td><strong>P36-055</strong></td>
</tr>
<tr>
<td><strong>P36-056</strong></td>
</tr>
<tr>
<td><strong>P36-057</strong></td>
</tr>
<tr>
<td><strong>P36-058</strong></td>
</tr>
<tr>
<td><strong>P36-059</strong></td>
</tr>
<tr>
<td><strong>P36-060</strong></td>
</tr>
<tr>
<td><strong>P36-061</strong></td>
</tr>
<tr>
<td><strong>P36-062</strong></td>
</tr>
<tr>
<td><strong>P36-063</strong></td>
</tr>
<tr>
<td><strong>P36-064</strong></td>
</tr>
<tr>
<td><strong>P36-065</strong></td>
</tr>
<tr>
<td><strong>P36-066</strong></td>
</tr>
<tr>
<td><strong>P36-067</strong></td>
</tr>
<tr>
<td><strong>P36-068</strong></td>
</tr>
<tr>
<td><strong>P36-069</strong></td>
</tr>
</tbody>
</table>

**SU**

**MO**

**TU**

**WE**

**SU**

**MO**

**TU**

**WE**

---

Poster Session 2

<table>
<thead>
<tr>
<th>Tuesday, July 7 &amp; Wednesday, July 8</th>
</tr>
</thead>
</table>

**P36-028** | Spin-labeled oligonucleotides – useful tool for the structural biology George Shevelev (Novosibirsk, Russian Federation) |
| **P36-029** | Quantitative assessment of IgG on colloidal particles as a new method for preparation of low-cost immunoassays Kamila Stofikoska (Cracow, Poland) |
| **P36-030** | High-resolution atomic force microscopy of G-quadruplexes Anna Protopopova (Moscow, Russian Federation) |
| **P36-031** | Method selection for protein extraction from FFPE tissues in the proteomics studies Ibrahim Kılıç (Konya, Turkey) |
| **P36-032** | Spin-labeled oligonucleotides – useful tool for the structural biology George Shevelev (Novosibirsk, Russian Federation) |
| **P36-033** | Quantitative assessment of IgG on colloidal particles as a new method for preparation of low-cost immunoassays Kamila Stofikoska (Cracow, Poland) |
P38-010  Maintaining the quality of experimental results when analyzing the expression of gene expression in the hypoxic microenvironment in human brain cancer in vitro
Harun Said (Izmir, Turkey)

P38-011  Development of laboratory resource materials on RNA and gene expression experiments for beginners and non-molecular biology researchers
Bülke Kocayigit (Ankara, Turkey)

P38-012  Promoting and assessment of biochemistry laboratory education to national qualifications levels by referencing to EQF; comparing with other countries
Aylin Sapici-Dincel (Ankara, Turkey)

P38-013  Innovative approaches in the biochemistry courses for student education in veterinary medicine, zootechnology and biology
Sergei Zatsiev (Moscow, Russian Federation)

P38-014  The effect of Helicobacter Pylori on serum lipid profile
Murat Kocabiyik (Ankara, Turkey)

P38-015  Modern biotechnologies’ products & ethical issues
Meltem Altabay (Zonguldak, Turkey)

P38-016  Modern scientific education for postmodern subjects: bioinformatics
Claudia Rubiano (Bogota, Colombia)

P38-017  GROM: Parameter and coordinate file editor for GROMACS
Hovakim Grabski (Yerevan, Armenia)

P38-018  Effects of endurance training on the serum levels of tumour necrosis factor-a and interferon-γ in sedentary man
Abdolreza Sotoodeh Jahromi (Jahrom, Islamic Republic of Iran)

P38-019  Molecular epidemiology and clinical importance of TT virus infection in haemodialysis patients, South of Iran
Akbar Kazemi (Jahrom, Islamic Republic of Iran)

P38-020  Antiphosphatidic acid antibodies in patients with myocardial infarction
Manoschehr Shabani Kordshooli (Jahrom, Islamic Republic of Iran)

P38-021  HTLV-I prevalence in β-thalassemia children in Jahrom, Iran
Abdolreza Sotoodeh Jahromi (Jahrom, Islamic Republic of Iran)

P38-022  Human T-Lymphotrophic virus type III virus among blood donors: South of Iran
Abdolreza Sotoodeh Jahromi (Jahrom, Islamic Republic of Iran)

P38-023  Association of anti-phosphatidylcholines antibodies with acute myocardial infarction
Abdolreza Sotoodeh Jahromi (Jahrom, Islamic Republic of Iran)

P38-024  Transfusion transmitted virus in beta thalassemia children
Manoschehr Shabani Kordshooli (Jahrom, Islamic Republic of Iran)

P38-025  Insulin resistance and serum levels of Interleukin-17 and Interleukin-18 in normal pregnancy
Akbar Kazemi (Jahrom, Islamic Republic of Iran)

P38-026  Hepatitis E virus and serum level aminotransferases in blood donors
Abdolreza Sotoodeh Jahromi (Jahrom, Islamic Republic of Iran)

P38-027  Prevalence of prediabetes and its association to cardiovascular risk factors
Abdolreza Sotoodeh Jahromi (Jahrom, Islamic Republic of Iran)

P38-028  Improving biotech education through gamified laboratory simulations
Mads Bonde (Copenhagen, Denmark)
The Federation of European Biochemical Societies offers four international journals for publication of the latest results and discussion across the molecular life sciences. The publications are wholly owned by FEBS, and income from them funds FEBS programmes such as research fellowships, advanced courses and other scientific meetings.

[Image of FEBS journals]

**FEBS Journal**
For full-length papers and reviews, with particular focus on biochemistry, molecular biology, structural biology and cell biology.
Edited by Seamus Martin

**FEBS Letters**
For research letters that merit urgent publication as well as timely reviews of wide interest in the molecular biosciences.
Edited by Felix Wieland

**Molecular Oncology**
For high-impact major discoveries, approaches and technical advances in basic, clinical and discovery-driven translational cancer research.
Edited by Julio E. Celis

**FEBS openbio**
For rapid open access publication of scientifically sound research articles in the molecular and cellular life sciences.
Edited by Mary Purton

www.febs.org
FEBS: A charitable organization advancing research in the molecular life sciences across Europe and beyond

Find out more at Booth B1.1