

Dear participants of the Summer Academy in Nuremberg,

It is our great pleasure to welcome you all to the second joint Summer Academy of the four RIGeL sections ,Biomedicine', ,Cellular Biochemistry and Biophysics', ,Molecular Ecology and Evolution', and ,Neurobiology' and the BIOMEDIGS graduate school of the University Hospital from October 13 to 15, 2016 in the Youth Hostel in Nuremberg.

This event gives you the opportunity to present your PhD project and to get new insights into the different fascinating fields of cell biology, biochemistry, zoology, botany etc. presented by others. Moreover, you will be able to share your know-how, discuss your ideas and methods and establish worthwhile collaborations. Furthermore, do not hesitate to ask questions and take part in lively discussions after the talks, as the most active ones will be honored with five ,Questioner' prizes, in addition to our talk and poster awards!

Finally, in order to get to know and understand the basic rules and values of the responsible conduct of research and to recognize questionable scientific practice and misconduct we will offer the workshop ,Good Scientific Practice' on the first day of the Summer Academy. Moreover, the workshop ,Job Application Training' should support your transition from PhD to future employment while you will be able to pick the most important tips and tricks during this workshop.

Looking forward to seeing you in Nuremberg!

Your Summer Academy Organizing Team



Thursday, 13th of October 2016

- 8:00 DEPARTURE from Regensburg
- 9:30-10:00 CHECK-IN in Youth Hostel Nürnberg
- 10:00-18:00 WORKSHOPS:
Good Scientific Practice
Bewerbungsmanagement
- 12:00-13:00 LUNCH
- 15:30-15:45 COFFEE BREAK
- 18:30-19:30 DINNER
- 19:30-20:30 EVENING LECTURE:
PD Dr. Johannes Spaethe
Lehrstuhl für Verhaltenspsychologie und Sozialbiologie
Universität Würzburg
„How bees see the(ir) world“

Friday, 14th of October 2016

from 7:30 BREAKFAST

9.00-10:15 **TALK SESSION 1** Chair: Corinna Seliger

1 **The endothelin-A receptor is expressed by renin cells of the kidney but is of less relevance for the physiological control of renin synthesis and secretion in vivo**
Thomas Neder

2 **The FACT complex - a transcription associated histone chaperone**
Philipp Holzinger

3 **Effects of 2-Hydroxyglutarate on DC activation**
Zugey Elizabeth Cárdenas-Conejo

4 **PDZ-domain phosphorylation of Bazooka/ PAR-3 by aPKC controls epithelial polarization**
Sabine Feicht

5 **Using Ancestral Sequence Reconstruction to Characterize an Allosteric Bi-Enzyme Complex**
Kristina Heyn

10:15-10:45 COFFEE BREAK

10:45-11:45 **POSTER SESSION 1**

1

Minocycline, a potential novel antidepressant

Anna Schmidtner

2

Transcript elongation and mRNA export in *Arabidopsis thaliana*

Hans Ehrnsberger

3

Oldies but Goldies? A Case Study on the Influence of Habitat Age and Management Continuity on the Genetic Diversity of Different Grassland Species

Ellen Pagel

4

Molecular studies of the Ski/Sno proteins Fussel and Snoo in *Drosophila melanogaster*

Matthias Schramm

5

The role of Pwp2 during the early events of ribosome biogenesis in yeast

Christina Schmidt

6

Restoration of species-rich grassland using autochthonous seed mixtures – insights for ecology

Franziska Kaulfuß

12:00-13:00 LUNCH

13:00-14:15 **TALK SESSION 2** Chair: Fabian Teubl

6

Co-transcriptional mRNA splicing in *Arabidopsis*

Silvia Esposito

7

The Role of the Adipokine Chemerin and its receptor CMKLR1 in Hepatocellular Carcinoma

Elisabeth Meier

8

How to Switch a Master Switch

Pedro Lopes

9

PAR-6 regulates cell polarity by preventing the degradation of Stardust through Rpn13 in *Drosophila* epithelia

Rui Sun

10

The role of Syntrophins in Nonalcoholic Steatohepatitis (NASH)

Lisa Rein-Fischböck

14:15-15:15 **POSTER SESSION 2**

7

The role of nuclear localized LKB1

Ina Hallstein

8

The evolution of chemical communication in the genus *Leptopilina* (Hymenoptera: Figitidae), a parasitoid of *Drosophila*

Lea Böttinger

9

A membrane proteomics approach to identify gamete-expressed cell surface proteins involved in double fertilization

Philipp Cyprys

10

Standing in the Doorway between Micro- and Macroevolution: Species delimitation in a group of *Leucanthemum* Mill. (Compositae, Anthemideae) lineages with dissected leaves

Florian Wagner

11

Isolation and characterization in composition, function and structure of native chromatin domains from *S. cerevisiae*

Christopher Schächner

12

TriFabs—Trivalent IgG-Shaped Bispecific Antibody Derivatives: Design, Generation, Characterization and Application for Targeted Payload Delivery

Tobias Killian

15:15-15:45 COFFEE BREAK

15:45-17:15 **TALK SESSION 3** Chair: Sabrina Schmitt

11 **The role of the vesicular protein VAP1 for protein reabsorption in renal proximal tubules**

Sara Afonso

12 **Micro-environment dependent phenotype of human macrophages**

Claudia Kieseewetter

13 **Evaluation of non-uniform sampling for accelerated quantitative metabolomics**

Trixi von Schlippenbach

14 **Codon adaptation of the 5' end of HIV Gag mediates enhanced and Rev-independent protein production**

Thomas Schuster

15 **The role of Pals1 and Par6 in epithelial cell polarity and malignancy**

Olga Panichkina

16 **Conceptional considerations to investigate the pathomechanisms of age-related macular degeneration via iPSC-based technology**

Sibylle Rosendahl

17:30-18:30 DINNER

from 18:30 FREE TIME / GET-TOGETHER

SATURDAY, 15th of October 2016

- 7:30-9:00 BREAKFAST AND CHECK OUT
- 9:00-9:30 RIGeL GROUPS & PhD REPRESENTATIVES
- 9:30-10:30 **POSTER SESSION 3**

13 **Impact of historical management on the vegetation of calcareous heathland (Mesobromion) and wet meadows (Cirsietum)**
Cornelia Straubinger

14 **Why to wear sunglasses: the effects of light exposure on the retina**
Sabrina Schmitt

15 **Molecular phylogeny and the geographic origins of neotropical freshwater crabs of the family Pseudothelphusidae (Crustacea, Brachyura)**
Theodor Poettinger

16 **Chromatin-mediated regulation of gene expression by TFIIS**
Wojciech Antosz

17 **Evolutionary diversification of protein-protein interactions by interface add-ons**
Florian Semmelmann

10:30-11:00 COFFEE BREAK

11:00-12:15 **TALK SESSION 4** Chair: Philipp Holzinger

17 **Metformin as antineoplastic agent in glioblastoma**
Corinna Seliger

18 **Influence of *Lmx1b* on the actin cytoskeleton of podocytes**
Markus Setzer

19 Identifying a cryptic species of the genus *Parasesarma* (Decapoda: Brachyura: Sesar-
midae) from northern Australian mangroves
using molecular approach

Adnan Shahdadi

20 The X-linked juvenile retinoschisis protein
retinoschisin is a novel regulator of MAP
kinase signaling and apoptosis in the retina

Karolina Plöb

21 RBP1, a putative translational repressor in
plants

Sandra Bertrand

12:15-13:15 LUNCH

13:15-14:15 **POSTER SESSION 4**

18 Single-particle cryo-electron microscopy –
Nature method of the year 2015

Veronika Heinz

19 Molecular Mechanisms of Death Receptor 3
Signaling

Sebastian Bittner

20 Studies on the assembly processes and
characterization of assembly intermediates
of the large ribosomal subunit in *Saccharo-
myces cerevisiae*

Fabian Teubl

21 Self-Control in Ants

Stephanie Wendt

22 Exploring the dynamic of eukaryotic
transcription initiation using single-molecu-
le FRET

Kevin Kramm

14:15-14:45 CONCLUDING REMARKS | POSTER & TALK AWARD

15:00 DEPARTURE