

PROGRAM

RIGeL Summer Academy

Thursday

8:15 Departure from Regensburg

9:15 Arrival and registration in Weltenburg

10:00 - 12:45 Team Building Event - part 1

12:45 - 13:45 Lunch break

13:45 - 15:15 Team Building Event - part 2



Coffee break

15:45 - 17:00 Team Building Event - part 3

18:30 - 19:30 Dinner

19:30 - 20:30 Evening lecture - Guido Grossmann
to be announced

from 20:30 get together

Friday

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from 7:30 Breakfast

9:00 - 10:00 Method lecture - GE healthcare
Demystifying image restoration by deconvolution and
how 3D-SIM beats confocal microscopy

Talk Session No. 1

Chair: Josef Simmel

10:10 - 10:30 Thomas Rössler
Skp2 and its role in the cell cycle in *Drosophila
melanogaster*

10:30 - 10:50 Max Müller
Dendritic integration in olfactory bulb granule cells

10:50 - 11:10 Andreas Horn
Rethinking eukaryotic translation and coding potential



Coffee break

Poster Session No. 1

11:20

1

Tanja Bartoschick

NanoTemper MO.Control Software

12:10

2

Anna Bludau

Oxytocin actions on neuronal microRNA expression and protein synthesis: Involvement in oxytocin-induced anxiolysis

3

Julia Winter

From intracellular signaling cascades to behavior: towards a better understanding of oxytocin's molecular effects

4

Julia Giehr

The importance of direct fitness for helpers in advanced insect societies

5

Enrico Hupfeld

Linkage between catalytic mechanism and conformational dynamics in ($\beta\alpha$)8-barrel enzymes by the example of Imidazole Glycerol Phosphate Synthase

6

Pedro Lopes

Determination of crystallographic structures of Ras under high hydrostatic pressure

12:10

Lunch

13:30 - 14:00

Method lecture - JEOL

electron microscopes & analytical instruments

Talk Session No. 2

Chair: Simone Kutzi

14:10 - 14:30	Daniela Zeitler Post-translational modifications of Lin28a
14:30 - 14:50	Benjamin Zimmer Binding Analysis of HIV-1 Envelopes to the Neutralizing Antibody 447-52D by Flow Cytometry, ELISA, SPR-Spectroscopy and Microscale Thermophoresis
14:50 - 15:10	Franziska Weichmann Investigation of posttranscriptional RNA base modifications and the identification of potential RNA readers and writers



coffee break

Talk Session No. 3

Chair: Alexandra Perras

15:40 - 16:00	Michael Pils Minimal functional and structural requirements for Pol I to transcribe promoter-dependent rDNA <i>in vitro</i>
16:00 - 16:20	Andreas Fuchs CHD3 and CHD4 containing NuRD complexes
16:20 - 16:40	Sandra Pohl Integrated analysis of epigenetic and genetic changes during MDS progression

RIGeL Summer Academy

Poster Session No. 2

16:45

7

Christina Bruss

Despite inhibition of glycolysis CD8 T cells preserve their effector functions

17:30

8

Vinícius Elias de Moura Oliveira

Cross-talk between oxytocin and vasopressin systems regulate female aggression in rats

9

Michaela Fuchs

Isolation and cultivation of erythropoietin producing cells

#10

Julia Koop

Identification and characterization of trimer stabilized HIV envelope proteins

#11

Stefan Reich

Systems biology of the Unfolded Protein Response in Glioma

#12

Çigdem Ün

Wolbachia as drivers of speciation in *Cardiocondyla obscurior*

18:30 - 19:30

Dinner

Talk Session No. 4

Chair: Stefan Reich

19:30 - 19:50

Tanja Bartoschik

Establishing novel label-free MST based approaches for affinity analysis of autofluorescent ligands

19:50 - 20:10

Matthias Kies

Dual regulation of APC/C-Fzr activity by Rca1

20:10 - 20:30

Nathalie Nida Moske

Flexibility of testis degeneration in *C. obscurior* males

Saturday

from 7:30 Breakfast and check out

9:00 - 9:10 RIGeL groups

Talk Session No. 5

Chair: Max Müller

9:10 - 9:30 Rohit Menon
Epigenetic modulation of social fear in mice

9:30 - 9:50 Simone Kutzi
Production of type I collagen by bone marrow derived hematopoietic cells significantly contributes to renal fibrosis

9:50 - 10:10 Alexandra Perras
Defining the boarders of extreme life: The study of microbial communities and their settings gives insights into Mars analogue life

10:10 - 10:30 Carina Saraiva de Matos
Impact of NOD2 polymorphisms on immune cell composition in peripheral blood



Coffee break

Poster Session No. 3

11:00

#13

Marianella Masis Calvo

Interaction of Oxytocin (OXT) and Neuropeptide S (NPS) systems on the regulation of social fear response in mice

12:00

#14

Catarina Quintanova

Expression and localization of KCNJ16 and functional consequences of the rare KCNJ16 variant p.R35Q

#15

Sybille Rosendahl

Conceptual considerations to investigate the pathomechanisms of age-related macular degeneration via iPSC-based technology

#16

Michael Schupfner

Development of a novel L-arabinose isomerase

#17

Stephanie Walter

Evaluation of the Parathyroid hormone related peptide during osteogenic differentiation of human dental follicle cells

#18

Ning Xia

Functional analysis of AGO8 in the *Arabidopsis thaliana* female gametophyte

12:10

Lunch

Talk Session No. 6

Chair: Thomas Rössler

13:00 - 13:20	<p>Tobias Schmid Impact of TNFR2-specific activation on the development of regulatory T cells (Treg) and myeloid-derived suppressor cells (MDSC) in mice with chronic colitis</p>
13:20 - 13:40	<p>Uwe Schwartz Genome wide analysis of chromatin structures</p>
13:40 - 14:00	<p>Josef Simmel Ellenberg indicator values and functional traits of macromycetes as indicators of ecosystem quality and land-use history</p>
14:30	Concluding remarks
15:00	Departure
aprox. 16:00	Arrival in Regensburg