



RTG 2344 & RTG 2355 - Joint Retreat 2023

July 05 – 07 2023

ACHAT Hotel
Kurgartenstr. 17
67098 Bad Dürkheim

Programme

Wednesday, 5 July 2023

03:00 pm **Check-in & welcome coffee**

chair: Camila Fullio

04:00 pm Welcome and Keynote 1
Kai Papenfort, Jena:

From Strings of Nucleotides to Collective Behaviors:
Lessons from Bacteria

chair: Fabienne Becker

05:00 pm Talk 1
Pavlos Bousounis, RTG 2344:

Deciphering the role of Mda5 in HSC aging

05:20 pm Talk 2
Daniel Bauer, RTG 2355:

Functional characterization of the yeast RNA-binding proteins
Sub2 and Tho1 and their interaction *in vivo*

05:40 pm Talk 3
Daniel Armbruster, RTG 2344:

An anatomical and molecular characterization of subpallial
dopaminergic neurons in zebrafish larvae

06:00 pm Get to know each other! **Scientific speed dating**

07:00 pm **Dinner**

08:00 pm Seminar and Discussion
Traude Beilharz, Melbourne:

A life in STEM: Science is easy, people are hard

Thursday, 6 July 2023

chair: Sophie Stebel

- 09:00 am Keynote 2
Domenico Libri, Montpellier:
Stay away from my DNA: Genomic distancing in a crowded genome
- 10:00 am Talk 4
Luisa Hemm, RTG 2344:
Identification of RNA-based interactions and regulation in the cyanobacterial model *Synechocystis* sp. PCC 6803
- 10:20 am Talk 5
Ebru Aydin, RTG 2355:
Release of 3'-end factors that license mRNAs for export requires the DEAD-box ATPase Dbp2

10:40 am **Coffee break**

chair: Pavlos Bousounis

- 11:00 am Talk 6
Dominik Rabsch, RTG 2344:
RNAdist - A Tool for Approximation of Expected Distances on the Ensemble of RNA Structures
- 11:20 am Talk 7
Jacqueline Böhme, RTG 2355:
Crosstalk between DNA and RNA – a link between chromatin remodeling and mRNA processing
- 11:40 am Talk 8
Frauke Garbsch, RTG 2344:
Involvement of WOX2 in stem cell initiation in the *Arabidopsis* shoot apical meristem
- 12:00 pm Talk 9
Elisabeth Lichtenberg, RTG 2344:
The fate of RNA in a cyanobacterial cell
Translation-independent RNA localisation in *Synechocystis*

12:20 pm **Lunch**

01:20 pm **Poster session**

chair: Kiriaki Kouti

02:20 pm Keynote 3
Traude Beilharz, Melbourne:
Widespread cytoplasmic polyadenylation in round spermatids is essential for the morphogenic switch in spermiogenesis

03:20 pm **Coffee break**

chair: Ipek Akol

03:40 pm Talk 10
Maximilian Staps, RTG 2355:
The function of the methyltransferase METTL3 in cardiomyocytes is indispensable for postnatal survival

04:00 pm Talk 11
Tobias Hohl, RTG 2344:
The role of Dot1l in neuronal development – a single-cell story

04:20 pm Talk 12
Jennifer Kothe, RTG 2355:
Early response to antibiotic exposure is characterized by induction of small genes in *Sinorhizobium meliloti*

04:40 pm Talk 13
Yanling Yu, RTG 2344:
Investigation of *Arabidopsis* root stem cell niche reorganization by single-nucleus transcriptomics

05:00 pm **Walk & Talk**
Retreat Photo

07:00 pm **Dinner**

08:00 pm **Pubquiz**
Win the Retreat 2023 prize!

Friday, 7 July 2023

chair: Fabian Dross

- 09:00 am Talk 14
Fabienne Thelen, GRK2355:
Towards a software suite for secure and convenient analysis of RNA data
- 09:20 am Talk 15
Johanna Wehrle, GRK2344:
Telencephalic Neural Stem Cell Proliferation Dynamics and Dopaminergic Neurogenesis in the Larval Zebrafish
- 09:40 am Talk 16
Kai Wallerang, GRK2355:
Post-Translational Cleavage of Crimean-Congo Haemorrhagic Fever Virus L protein
- 10:00 am Talk 17
Camila Fullio, GRK2344:
Dot11 expression in glutamatergic lineage is crucial for correct interneuron migration during cortical development

10:20 am **Coffee break**

chair: Yanling Yu

- 10:40 am Talk 18
Helene Keuthen, GRK2355:
Revealing the phage infection process – new perspectives on T4 phage and *E. coli* interactome
- 11:00 am Talk 19
Yu-Hsiang Teng, GRK2344:
Molecular determinants of TGF β 1-induced cellular dynamics in partial EMT

11:20 am **RTG internal sessions**

12:20 pm **Lunch**

chair: Sara Hettrich

- 01:20 pm Talk 20
Theresa Gerhardt, RTG 2355:
Molecular function of a cis-regulatory as-lncRNA in alternative splicing and calcium dynamics in *Mus musculus*
- 01:40 pm Talk 21
Aránzazu Sáenz Espinoza, RTG 2344:
Dissecting vemurafenib resistance in melanoma: The role of the PI3K pathway
- 02:00 pm Talk 22
Yannic Noe, RTG 2355:
The regulatory role of hnRNP L in hypoxia
- 02:20 pm Talk 23
Ipek Akol, RTG 2344:
Molecular mechanisms of FOXG1 controlling transcription in mouse and human neural cells
- 02:40 pm Closing remarks
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- 02:50 pm ***Coffee & Farewell***