Wednesday, April 10

11:00 ***Registration & coffee***

13:00 Welcome address

Session: Chromatin & gene expression

13:15 Talk 1: **Sandra Hake**, JLU Giessen

Unravelling the Functional Secrets of the Enigmatic Histone Variant H2A.Z and its Complex 'Social Networks'

13:40 Talk 2: **Nicolai Siegel**, LMU Munich & Cell2Cell

The benefit of being different: Decoding cell-to-cell heterogeneity in pathogens

14:05 Talk 3: **Prateek Yadav**, LMU Munich & Cell2Cell

Unravelling the 3D Genomic Landscape of Trypanosoma brucei: Visualization of Genomic Architecture by Fluorescence in situ Hybridization

14:20 Talk 4: **Joseph Steinberger**, Weizmann Institute, Rehovot & Cell2Cell

The search of transcription factors (TFs) for their in-vivo binding sites

14:35 Talk 5: **Alexander Brehm**, University of Marburg

Transcriptome Regulation during Drosophila Hemocyte Differentiation

15:00 ***Coffee break***

Session: Chromatin & single-cell omics

15:40 Talk 6: **Ugur Sezerman**, Epigenetiks & Cell2Cell

A new method for integration of single cell transcriptomics data with SNP data to study the pathways of pathogenicity

16:05 Talk 7: **Maria Colomé-Tatché**, LMU Munich & Cell2Cell

Single cell computational epigenomics

16:30 Talk 8: **Umut Gerlevik**, Univ. Oxford & Cell2Cell

Decoding Genomic Features Through Nascent Transcription

16:45 Talk 9: **Andreas Hoek**, JLU Giessen

Analysis of transcriptomic single cell data using WASP

short break

17:15 Keynote: **Schraga Schwartz**, Weizmann Institute, Rehovot

Deciphering the code governing mRNA methylation and mRNA stability

18:30 ***Reception***

Thursday, April 11

Session: RNA export, stability & gene regulation

09:00 Talk 10: **Gunter Meister**, University of Regensburg

Regulation of post-transcriptional gene silencing pathways through phosphorylation and protein degradation

09:25 Talk 11: **Ebru Aydin**, JLU Giessen & RTG 2355

DEAD-box ATPase Dbp2 mediates mRNA release after 3'-end formation

09:40 Talk 12: **Johanna Seidler**, JLU Giessen & RTG 2355

Phosphorylation of export adaptors regulates the mRNA export block during heat stress in S. cerevisiae

09:55 Talk 13: **Dorothee Staiger**, Bielefeld University

The language of RNA-based regulation in Arabidopsis

10:20 ***Coffee break***

Session: RNA chemistry & regulation

10:55 Talk 14: **Andrea Rentmeister**, LMU Munich

Investigating and controlling mRNA using click chemistry and light

11:20 Talk 15: **Timo Schlemmer,** University of Regensburg & RTG 2355

Circular antisense RNAs as a new mode of action for RNA-based plant protection

11:35 Talk 16: **Susanne Kramer**, University of Würzburg

Expanding BioID: the nuclear pore complex of trypanosomes

12:00 ***Lunch break – self-catering***

Session: Chromatin & RNA landscapes during infection

14:00 Talk 17: **Dina Grohmann**, University of Regensburg

A single-molecule view of the RNA world

14:25 Talk 18: **Neva Caliskan**, Helmholtz Institute for RNA-based Infection Research, Würzburg

The translational landscape of HIV-1-infected cells

14:50 Talk 19: **Richárd Bártfai,** Radboud Univ. & Cell2Cell

The protein landscape of the chromatin states in malaria parasites

15:15 Talk 20: **Beatriz Graça**, Swiss Tropical and Public Health Institute, Basel & Cell2Cell

Studying the effect of small-molecule inhibitors on Plasmodium falciparum gametocyte sex ratios

15:30 Talk 21: **Hamid Cheraghi**, ELTE Eötvös Loránd University, Budapest & Cell2Cell

Trypanosoma brucei bloodstream form stages classification using AI

15:45 ***Coffee break***

Session: RNA regulation during development & disease

16:20 Talk 22: **Maximilian Staps**, MPI Bad Nauheim & RTG 2355

Investigating the function of Mettl3 during murine heart development

16:35 Talk 23: **Sven Diederichs**, University of Freiburg

From non-coding RNAs to non-canonical Mutations in Cancer

17:00 Keynote: **Susan Gasser**, Swiss Institute for Experimental Cancer Research, Lausanne

Heterochromatic regulation in worms: RNA turnover as a repression mechanism

18:00 ***Poster session***

Friday, April 12

Session: Chromatin regulation during infection

09:00 Talk 24: **Markus Meißner**, LMU Munich

Snf2L drives Plasmodium just-in-time gene expression and gametocytogenesis

09:25 Talk 25: **Lucy Glover**, Pasteur Institut, Paris

A delicate balancing act: How homologous recombination facilitates and constrains trypanosome immune evasion

09:50 Talk 26: **Christoph Grevelding,** JLU Giessen

"WEome" of Schistosoma mansoni – a genomic resource for regulatory RNAs shaping schistosome biology, variability, and evolution?

10:25 Poster price sponsored by
German Genetics Society (GfG)

10:30 ***Coffee break***

Session: Nuclear organization & chromatin architecture

11:15 Talk 27: **Vishnu Suma Sreechakram**, JLU Giessen & Cell2Cell

Studying chromatin organization and gene expression during environmental stress

11:30 Keynote: **Bas van Steensel**, Netherland Cancer Institute, Amsterdam

Scrambling the genome to study gene regulation and chromatin architecture

12:30 Closing remarks

Organizers:

Prof. Dr. Sigurd Braun (JLU Giessen, Cell2Cell)
Prof. Dr. Katja Sträßer (JLU Giessen, RTG 2355)
Prof. Dr. Nicolai Siegel (LMU Munich, Cell2Cell)

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Cell2Cell heterogeneity RTG 2355

Joint Symposium

Dynamics in chromatin organization and RNA regulation: adaptation, infection — and beyond

April 10-12, 2024

Programme

JUSTUS-LIEBIG-UNIVERSITÄT GIESSEN