

## Tuesday, April 02

- 07:30 Bus Departure at Bioquant  
Im Neuenheimer Feld 267, Main Entrance
- 09:15/09:30 Arrival at Hotel “Haus am Weinberg” in St. Martin;  
Luggage Deposit
- 09:15/09:30 Coffee

### Short-Talk Session I Chair: Ali Seleit

- 09:30-09:45 Welcome, Andromachi Karakatsani
- 09:45-10:45 **Natasha Anstee:** Self-renewal of hematopoietic stem cells  
**Ann-Kathrin Schuon:** Fate mapping of hematopoietic stem cell activity under challenges  
**Sina Stäble:** DNA methylation patterns define hematopoietic differentiation  
**Simon Renders:** The Netrin-1 – Neogenin axis regulates hematopoietic stem cell dormancy and function with implications for stem cell ageing
- 10:45-11:00 Coffee

### Short-Talk Session II Chair: Nina Tonn

- 11:00-12:00 **Lucie Zilova:** Emergence of retinal stem cells in fish retina  
**Clara Becker:** The dynamic interplay of immune cells and retinal stem cells  
**Erika Tsingos:** Taking turns: Quiescent and active stem cells coexist in homeostatic growth of the retinal pigment epithelium of Medaka  
**Florent Murat:** Cellular and regulatory evolution of mammalian spermatogenesis and underlying stem cells
- 12:00 Lunch

### Short-Talk Session III Chair: Thomas Stiehl

- 13:30-14:15 **Pia Sommerkamp:** Hematopoietic stem cells are regulated by alternative polyadenylation  
**Manuel Göpferich:** Differential 3' UTR usage along the adult olfactory bulb neurogenic lineage  
**Andromachi Karakatsani:** Understanding the communication between neural stem cells and the vasculature in neurogenic niches
- 14:15-14:30 Coffee

Short-Talk Session IV      Chair: Damian Carvajal, Yasmin Demerdash

- 14:30-15:30      **Kaiching Zhang:** The role of Wnt/STOP in embryonic neurogenesis
- Bahtiyar Kurtulmus:** Understanding the role of ciliary signaling in stem cells
- Jun Zhou:** A tumor-microbe feedback loop leads to epithelial barrier dysfunction in the *Drosophila* intestine
- Nicolas Dross:** Light and live microscopy at the Nikon Imaging Center

Social Event

- 15:30-16:00      Coffee and Cake
- 16:30              Bus shuttle to “Mhou farm”
- 17:00-21:00      Guided tour and African barbeque
- 21:00              Bus departure
- 21:30-open end      Wine, beer and “social networking”

## Wednesday, April 03

07:00-9:00 Breakfast

### Short-Talk Session V Chair: Simon Renders, Andromachi Karakatsani

9:00-10:00 **Julius Gräsel:** Evi-1 overexpression rescues defects in Fanca<sup>-/-</sup> HSPCs leading to AML  
**Thomas Stiehl:** Stem cell niche dynamics in human leukemia – Insights from mathematical modeling  
**Leila Martins:** Studying lung epithelial stem cells in tissue repair  
**Nils Trost:** Solutions to challenges of single-cell RNA-seq data analysis

10:00-10:30 Coffee

### Short-Talk Session VI Chair: Patrick van Nierop y Sanchez

10:30-11:30 **Julio Codrero:** Pioneering function of Isl1 in epigenetic control of cardiomyocyte cell fate  
**Diana-Patricia Danciu:** Mathematical modeling of stem cell dynamics during post-embryonic organ growth  
**Karen Groß:** Stem cell heterogeneity during post-embryonic organogenesis in the neuromast  
**Nina Tonn:** SMXL3/4/5 act as early regulators of phloem formation in *Arabidopsis thaliana*

12:00-15:00 Walk and wine tasting including lunch together with the PI's

### Speed-Talks and Poster Session

15:00-16:00 Speed Talks with Coffee and Cake  
**Marleen Büchler:** Identification of EVI2A and LYVE1 as functional effectors of HSC specification  
**Katrin Busch:** Fate mapping of hematopoietic stem cell activity *in situ*  
**Damian Carvajal:** The interferon-stimulated protein Ifit1 negatively regulates neurogenesis in the adult mammalian brain  
**Yasmin Demerdash:** Inflammatory stress responses in HSCs *in vivo*  
**Aykut Demir:** Elucidating the role of the blood enhancer cluster of MYC in AML  
**Megan Druce:** Bioinformatic analysis of hematopoietic stem cell ageing and leukemic transformation  
**Olga Ermakova:** A single cell transcriptome map of the *Arabidopsis thaliana* root stem cell system

**Michael Fuchs:** Dissecting the cell-to-cell mobility of the plant stem cell regulator WUSCHEL

**Michael Gebert:** Structural basis for the complex DNA binding behavior of the plant stem cell regulator WUSCHEL

**Alessandro Greco:** Quantification of the transcriptomic perturbations in response to hematopoietic challenges at single-cell resolution

**Michelle Haas:** Characterization of lung mesenchymal cells after epithelial injury

**Jeyan Jayarajan:** A co-housing model system to study the effect of infection-stress on hematopoietic stem cells

**Athanasios Lampropoulos:** Biochemical and genomic analysis of WUSCHEL function

**Philipp Linke:** Development of new dynamic substrates for the mechanical regulation of mesenchymal stem cells

**Laura Luzietti:** Analysis of cell type-specific chromatin conformation reveals novel regulators of radial plant growth

**Patrick van Nierop y Sanchez:** Gatekeepers in asymmetric cell division: Nucleoporins in the *Drosophila* male stem cell niche

**Ali Seleit:** Neural stem cells induce the formation of a life-long stem cell niche

**Tinatini Tavhelidse:** Rx genes convey ventral retina identity in Medaka

**Linda Viol:** Nek2 releases distal appendages from the centrosome to ensure cilia disassembly upon mitotic entry

**Kerem Yildirim:** Regulation of asymmetric cell division in *Drosophila* testis GSCs

**Yi Liu:** A focused CRISPR/CAS9 snoRNA screen reveals that SNORD42A is important for leukaemogenesis

**Xi Wang:** Altered gene expression and adapted differentiation in challenged hematopoietic stem and progenitor cells

16:00-17:30

Poster Session

17:30

Poster and Talk Prize

18:15

**Bus Departure to Heidelberg**