Monday, July 9

09:00 - 09:15 **Welcome**: Toru Kondo and Timm Schroeder

09:15– 12:10 **Neural Development** (chair Laure Bally Cuif)

09:15 *Laure Bally Cuif / Christoph Leucht* *(Developmental Genetics – Zebrafish Neurogenetics)*: MicroRNA-mediated regulation of the gene expression program defining the zebrafish midbrain-hindbrain organizer

09:50 *Takashi Shimizu* *(Vertebrate Axis Formation)*: Cdx-Hox code controls competence for responding to Fgfs and retinoic acid in zebrafish neural tissue

10:25 **Coffee break (+Posters)**

11:00 *Kentaro Abe* *(Cell Adhesion and Tissue Patterning)*: NMDA Receptor activation induces calpain-mediated β-catenin cleavages for triggering gene expression

11:35 *Andrea Huber Brösamle* *(Developmental Genetics)*: Axon guidance

12:10 **Lunch (+Posters)**

13:45 - 18:05 **Omics** (chair Timm Schroeder)

13:45 *Stefanie Hauck* *(Human Genetics)*: Proteomic strategies to analyse cellular functions and mechanisms of disease

14:20 *Wolfgang Wurst* *(Developmental Genetics)*: EUCOMM, the European Conditional Mouse Mutagenesis Program

15:05 *Cantas Alev* *(Stem Cell Translational Research)*: New insights into endothelial progenitor cell biology via proteomics and transcriptomics

15:40 **Coffee Break (+Posters)**

16:15 *Martin Hrabe de Angelis* *(Experimental Genetics)*: Systemic characterization of disease models: The German Mouse Clinic 1 and 2

16:55 *Michael Rieger* *(Stem Cell Research)*: Instructive or permissive progenitor fate regulation: Insights from single cell approaches

17:30 *Martin Jakt* *(Stem Cell Biology)*: The shape of differentiation?

19:00 **Dinner** at the beer garden ‘Aumeister’
Tuesday, July 10

09:00 – 12:35 Neural Stem Cells (chair: Toru Kondo)

09:00 Toshihiro Uesaka (Neuronal Differentiation and Regeneration):

Hirschsprung's disease model mouse: reduction of Ret expression causes migration delay and unconventional neuronal death in the colon

09:35 Marie Theres Schmid (Stem Cell Research):

The Role of adherens junctions in neural precursor fate and polarity

10:10 Coffee Break (+Posters)

10:50 Hiromi Takanaga (Cell Lineage Modulation):

Gli2 coordinates the expression of stemness genes in neural stem cells

11:25 Chichung Lie (Developmental Genetics):

Molecular regulation of adult neural stem cells

12:00 Karsten Suhre (Bioinformatics): Metabolomics (Omics satellite)

12:35 Lunch (+Posters)

14:00 – 17:35 Embryonal Development (chair ShinIchi Nishikawa)

14:00 Akihito Yamamoto (Vertebrate Body Plan):

Role of Shisa in segmentation

14:35 Hanna Eilken (Stem Cell Research):

Endothelial–Blood Transitions: Visualization of hemogenic endothelium

15:10 Coffee Break (+Posters)

15:50 Noriaki Sasai (Organogenesis and Neurogenesis):

Molecular mechanisms of germ layer specification in Xenopus

16:25 Ingo Burtscher (Stem Cell Research):

Imaging endoderm development in the mouse

17:00 Hiroshi Sasaki (Embryonic Induction):

Tead-Yap system regulates pre- and post-implantation mouse development

17:35 Closing remarks: ShinIchi Nishikawa

19:00 Dinner at the beer garden ‘Emmeramsmühle’

---------------

Wednesday, July 11th  Lab visits / Discussions