

Thursday, 25.09.2025

14:00 Registration desk open

15:00 Welcome

Session 1 – chair Valentina Trivigno

15:15 [T01] **Lázaro Centanin** - Revealing stem-cell driven growth coordination in fish by non-biased lineage analysis

15:55 [T02] **Norie Kagawa** - Generation of knock-in *Xenopus laevis* that recapitulate endogenous sonic hedgehog genes

16:10 Coffee break

Session 2 – chair Pablo Gonzalez-Suarez

16:40 [T03] **Daniela Münch** - Context-dependent interactions between immune cells and sensory hair cell regeneration programs

16:55 [T04] **Haruka Matsubara** - Tbx3 differently regulates the number of digits in the fore and hindlimb of newts

17:10 [T05] **Steffen Lemke** - Fly Gastrulation: A Story of Fate and Force - Blueprints & Scaffolds of Lineage & Mechanics

18:00 Dinner

Keynote lecture – chair Lázaro Centanin

19:30 [T06] **Misako Okumura** - Light-Induced Oxidative Stress and cGMP Signaling Regulate Mouth-Form Polyphenism in the nematode *Pristionchus pacificus*

20:30 Poster session 1 (odd numbers)

[P01] **Lara Bejatovic** - Dissecting the tissue-specific role of tbx20 in zebrafish heart development

[P03] **Anja Ende** - Profiling Bivalent Histone Marks in Articular Chondrocytes during Murine Joint Development

[P05] **Sandra Hägele** - Role of Transformer 2b in ciliated cell development and function

[P07] **Eric Laudemann** - Optical cell lineage and cell-cell contact tracing in zebrafish gastrulation

[P09] **Florian Neugebauer** - Unraveling the genetic regulatory network controlling L-R asymmetry formation in the anterior gut of *Drosophila melanogaster*

[P11] **Philipp Straube** - Analysis of the molecular function of the T-box transcription factors TBX2 and TBX3 in the development and maintenance of the urothelium in the murine bladder

[P13] **Minako Suzuki** - Dynamic interaction between heparan sulfate proteoglycans, Wnt11, and core PCP components in the regulation of planar cell polarity

[P15] **Zixuan Huo** - Decoding craniofacial structure variation and genetic dependencies using the Medaka Inbred Kiyosu-Karlsruhe Panel

Friday 26.09.2025

07:30 Breakfast

Session 3 – chair Damian Weber

09:00 [T07] **Benoit Landrein** - Mechanical regulation of plant organ growth

09:40 [T08] **Aki Teranishi** - Elastoplastic Transition Regulating the Irreversibility of Epithelial Folding in Morphogenesis

09:55 [T09] **Dinara Sharipova** - Nitric Oxide Signaling in Zebrafish Outflow Tract Development

10:10 Coffee Break + picture

Session 4 – chair Sandra Hägele

10:40 [T10] **Koji Kawamura** - Self-organized patterning of peristaltic waves by suppressive actions in a developing gut

10:55 [T11] **Valentina Trivigno** - Ciliary dynamics, apical constriction and signaling interactions shape rhombomere boundaries and stem cell niches in the developing *Xenopus laevis* hindbrain

11:10 [T12] **Florian Bergmann** - Analysis of the postnatal development of the murine ureter

11:25 [T13] **René Schneider** - Controlling wall patterning in the vasculature of plants

12:15 Lunch

Session 5 – chair Eric Laudemann

14:00 [T14] **Lauren Saunders** - Reverse genetics at single-cell resolution reveals lineage-specific programs in shared tissues

14:40 [T15] **Kwon Seung June** - Unraveling the molecular basis underlying sternal diversification in birds

14:55 [T16] **Javier Vázquez Marín** - Virtue is in the e-*gill*-ibrium: disentangling connections among fate-restricted cell lineages in medaka

15:10 Coffee Break

Session 6 – chair Zixuan Huo

16:00 [T17] **Hiroko Ikawa** - The study of molecular mechanism which retain the migrating primordial germ cells in the mesentery

16:15 [T18] **Manami Morimoto** - Distinct mechanosensing mechanisms regulate bleb-driven migration of primordial germ cells in different microenvironments

16:30 [T19] **Noel Cabañas** - Unraveling the molecular identity of the insect neural cell lineages

16:45 [T20] **Jan Philipp Junker** - High-throughput lineage tracing reveals developmental principles in regeneration and cancer

17:45 Dinner

Keynote lecture – chair René Schneider

19:30 [T21] **Moritz Nowack** - Cell Death - The Final Frontier in Plant Development

20:30 Poster Session 2 (even numbers)

[P02] **Ekin Gokce Cicek** - Directed differentiation of pig pluripotent stem cells to definitive endoderm

[P04] **Sosuke Fujita** - Toward understanding the role of neuropeptide signaling in the regeneration of the sea anemone *Nematostella vectensis*

[P06] **Tatsuro Ikeda** - Tracing the mouse male germ cell lineages from development to the next generation

[P08] **Mirjam Layer** - Tracking cell fate decisions with dual lineage labeling in zebrafish Creation of a D. rerio dual responder line in-vivo

[P10] **Yadhusankar Sasidharan** - Fate on Pause: Dissecting the Developmental Block during Embryogenesis

[P12] **Vijayalakshmi Suryavanshi** - Mechanisms delaying stomatal patterning during embryogenesis

[P14] **Damian Weber** - The impact of cilium disassembly on developmental signaling

[P16] **Thomas Thumberger** - Advanced targeted genome editing to investigate patient-alleles in medaka-fish models

Saturday 27.09.2025

07:30 Breakfast

Session 7 – chair Vijayalakshmi Suryavanshi

09:00 [T22] **Martin Bayer** - How parental factors shape the plant embryo

09:40 [T23] **Pablo Gonzalez-Suarez** - Baby it's cold outside: Temperature control of stomatal development during embryogenesis and beyond

09:55 [T24] **Mona Hansen** - The importance of the Scf/Kit pathway in orchestrating self-organization and tissue-homeostasis

10:10 [T25] **Onur Önder** - *zMorphoNet: Deep learning-based quantification of developmental dynamics*

10:25 Coffee Break

Session 8 – chair Ekin Gokce Cicek

11:00 [T26] **Bilyana Popova** - Gradient of Wnt signaling facilitates Mef2 heterogeneity and limits commitment of the developmental muscle progenitor pool

11:15 [T27] **Momoko Kyushin** - Elucidation of the molecular and developmental mechanism by which birds evolutionarily acquired flight feathers

11:30 [T28] **Pratiti Rout** - Myoblast fusion requires mitochondrial fission for syncytial muscle formation

11:45 [T29] **Takayuki Suzuki** - Inter-species differences in gene expression regulation that brought about the diversity of hindlimb positions in tetrapods

12:00 Closing remarks & Farewell