

PROGRAM

DAY 1 Friday 7th of September

from 11:00 Registration open
13:00-13:30 Opening by organizers

SESSION 1

13:30-14:10	KEYNOTE TALK 1 Claudio Stern	Two for the price of one: twinning - the ultimate regeneration
14:10-14:25	Ondrej Machon	Transcription factors of Meis family control differentiation of neural crest cells in vertebrates
14:25-14:40	Cecilia Winata	Genomics dissection of the zebrafish heart
14:40-14:55	Ildiko Kristo	Investigation the role in mRNA export of the actin binding protein, Moesin
14:55-15:10	Adriana Kolesarova	A prominent and promising impact of grape skin extract on human ovarian cells
15:10-15:15	Krisztina Herberth-Minko	A new theory of the thimic structure
15:15-15:20	Karol Kaiser	WNT5A governs branching morphogenesis of choroid plexus in the developing brain
15:20-15:50	<i>Coffee break</i>	

SESSION 2

15:50-16:30	KEYNOTE TALK 2 Andrei Chagin	A novel stem cell niche discovered in the epiphyseal growth plate
16:30-16:45	Ales Hampl	Early lung epithelial progenitors originating from human pluripotent stem cells
16:45-17:00	Agnieszka Bernat	The model of intragenic homologous recombination for studying genetic stability in ESC cells
17:00-17:15	Vladimir Krylov	Identification and characterization of immature Sertoli cell progenitors derived from <i>Xenopus tropicalis</i> testis
17:15-17:30	Lukas Cajanek	Acentrosomal divisions prevent self-renewal and trigger p53-dependent differentiation in human pluripotent stem cells
17:30-17:35	Eniko Sutus	Connecting RING1 and YY1 Binding Protein to the retinoic acid signaling pathway during neural differentiation
17:35-17:40	Josef Vecera	HIF1 α role in early mammalian neural development
17:40-23:00	POSTERS 1	(with welcome reception)

DAY 2 Saturday 8th of September - morning

SESSION 3

9:00-9:40	KEYNOTE TALK 3 Marie-Helene Verlhac	Active fluctuations modulate gene expression in mouse embryos
9:40-9:55	Martin Anger	Functional correlation between Spindle Assembly Checkpoint and Anaphase Promoting Complex activity during mammalian meiosis I
9:55-10:10	Petr Solc	Roles of three Aurora kinases (A, B, C) in spindle formation and chromosome segregation during mammalian oocyte meiosis
10:10-10:25	Rita Sinka	Changes of mitochondria in <i>Drosophila melanogaster</i> spermatids
10:25-10:40	Ferenc Jankovics	Small ovary (sov): a novel heterochromatin regulator in <i>Drosophila</i>
10:40-10:45	Dmitry Dedukh	Cytological insights about hybrid male gametogenesis from <i>Cobitis taenia</i> complex
10:45-10:50	Viktor Vedelek	Stage-specific transcriptom analysis in <i>Drosophila</i> testis
10:50-11:20	<i>Coffee break</i>	

SESSION 4

11:20-12:00	KEYNOTE TALK 4 Petra Hajková	Epigenetic reprogramming in vivo: what have we learnt?
12:00-12:15	Anna Ajduk	Optical coherence microscopy as a novel, non-invasive method for the 4D live imaging of early mammalian embryos
12:15-12:30	Marta Czernik	Mitochondrial fusion in pre-implantation mouse embryos
12:30-12:45	Lenka Gahurova	Stage specific mTOR-regulated translation affects the relative spatial positioning of cells during mouse preimplantation embryo development
12:45-13:00	Aneta Suwinska	The role of paracrine interactions involving FgfR1 and FgfR2 receptors in regulation of development of the preimplantation mouse embryo
13:00-13:05	Zofia E. Madeja	Pluripotency and lineage specific signalling affects the quality of bovine preimplantation embryos obtained <i>in vitro</i>
13:05-13:10	Jan Nevoral	SIRT1 in oocyte: epigenetic and non-epigenetic mode of action
13:10- 14:30	<i>Lunch</i>	

DAY 2 Saturday 8th of September - afternoon

SESSION 5

14:30-15:10	KEYNOTE TALK 5 Jeremy B.A. Green	Epithelial bending for organ formation: forces, molecular signals, and novel ensemble cell behaviours
15:10-15:25	Zuzana Koledova	Regulation of epithelial branching morphogenesis by fibroblasts: lessons from mammary gland
15:25-15:40	Alena Krejci	NADH metabolism as regulator of <i>Drosophila</i> development
15:40-15:55	Stefan Cikos	Maternal stress during early pregnancy: short-term and long-term consequences
15:55-16:10	József Mihaly	A STORM analysis of sarcomere structure and assembly in <i>Drosophila</i> flight muscles
16:10-16:15	Ahmed Gad	Expression profiling of miRNAs in porcine oocytes with different developmental competence
16:15-16:20	Ondra Bernatik	Tau tubulin kinase 2 substrates phosphorylation in cilia initiation
16:15-16:45	<i>Coffee break</i>	

SESSION 6

16:45-17:25	KEYNOTE TALK 6 Pavel Tomancak	A new force awakens: comparative approach to tissue morphogenesis in insects
17:25-17:40	Marek Jindra	Tissue-restricted juvenile hormone signaling simultaneously permits larval growth and adult development during advanced <i>Drosophila</i> metamorphosis
17:40-17:55	Jiří Pergner	Evolution of photoreception in chordates – insights from development of amphioxus photoreceptors
17:55-18:10	Vladimir Soukup	Hyoid breathing: Heterochrony underlies development of larval adaptive structures
18:10-18:20	Viktor Demko	The mechanism and evolution of positional signalling in plants – understanding the DEK1 pathway
18:20-19:00	POSTERS 2	
19:00-24:00	<i>Banquet</i>	<i>(Restaurant Pivovarska Starobrnno)</i>

DAY 3 Sunday 9th of September

SESSION 7

9:00-9:40	KEYNOTE TALK 7 Olov Andersson	Pancreatic beta-cell regeneration in zebrafish
9:40-9:55	Jan Krivanek	How do the continuously growing teeth regenerate?
9:55-10:10	Radek Sindelka	Role of nitric oxide during wound healing
10:10-10:25	Zdenek Trachtulec	An ancient pathway of the initiation of meiotic DNA repair present in <i>Mus musculus</i>
10:25-10:30	Josef Jaros	3D bioprinting of stem cells and their environment

10:30-11:00 *Coffee break*

SESSION 8

11:00-11:40	KEYNOTE TALK 8 Abigail S. Tucker	Development of the human ear canal sheds light on external ear defects in patients
11:40-11:55	Dusan Fabian	Transgenerational mouse obesity model – an ideal choice for reproductive and developmental studies
11:55-12:10	Mate Varga	Defective pseudouridylation results in impaired differentiation during zebrafish development
12:10-12:25	Tomas Barta	miR-183 cluster: a microRNA family regulated by light in human retinal organoids
12:25-12:40	Michaela Kunova Bosakova	Regulation of ciliary function by fibroblast growth factor signaling identifies FGFR3-related disorders achondroplasia and thanatophoric dysplasia as ciliopathies
12:40-12:45	Eva Hrubá	Pathophysiology of <i>Sprouty2</i> and its association with ciliopathies
12:45-12:50	Katarzyna Filimonow	Rabbit as a model for inner cell mass differentiation

12:50-13:00 Closure of the meeting

13:00-14:30 *Lunch*

14:30-15:00 Round table of organizers about future meeting and society running