

12th Annual Swiss Zebrafish Meeting

Leukerbad, 5-6 April 2019

Program

Friday 5th

12:00-13:00 Registration & Opening by SwissZebra Meeting Organizers

Moderator : Dr Linda Bapst-Wicht

13:00-13:15 **Younes El Fersioui**
Institute for Research in Ophthalmology, Sion
Identifying the targets and understanding the role of Hmx1

13:15-13:30 **Ines J. Marques**
Institute of Anatomy, University of Bern
Expression of wilm's tumor genes in zebrafish cardiomyocytes during development causes atrial hyperplasia and fibrosis

13:30-13:45 **Andrés Sanz-Morejón**
Institute of Anatomy, University of Bern
Wilms' tumor 1b (wt1b) expression defines a pro-regenerative macrophage subtype and is required for organ regeneration in the zebrafish

13:45-14:00 **Thomas Bise**
Department of Biology, University of Fribourg
Can successive cryoinjuries exhaust the regenerative capacity of the zebrafish heart ?

14:00-14:15 **Anna Jazwinska**
Department of Biology, University of Fribourg
Induction of heart tumor in juvenile zebrafish

14:15-14:30 **Mohammad Raknuzzaman**
Department of Fisheries, University of Dhaka, Bangladesh
Genetic diversity of zebrafish (*Danio rerio*, Hamilton, 1822) in Bangladesh using DNA barcoding and RAPD techniques

14:30-14:45 **Martina Konantz**
Department of Biomedicine, University Hospital Basel
Phenotype severity is influenced by mutation type in SRP54 deficiency

14:45-15:00 **Anita Senk**
Institute of Anatomy, University of Bern
Alternative mechanism of angiogenesis during the zebrafish fin regeneration

15:00-15:30 Coffee Break

Moderator : Prof. Nadia Mercader

Friday 5th	15:30-15:45	Dogan Grepper <i>Department of Physiology, University of Lausanne</i> Mitochondria in embryogenesis: an organellogenesis perspective
	15:45-16:00	Golam Rabbane <i>Department of Fisheries, University of Dhaka, Bangladesh</i> Diet effects on growth, mortality, RNA:DNA ratio and gene expression of zebrafish
	16:00-16:15	Thomas Arbogast <i>Center for Integrative Genomics, University of Lausanne</i> Using zebrafish to identify causative genes for sexual development in the 16p11.2 locus
	16:15-16:30	Désirée König <i>Department of Biology, University of Fribourg</i> Distribution and restoration of serotonin-immunoreactive paraneuronal cells during caudal fin regeneration in zebrafish
	16:30-16:45	Catherine Pfefferli <i>Department of Biology, University of Fribourg</i> Molecular characterization of heterogeneous cardiomyocyte populations in the adult zebrafish ventricle
	16:45-17:00	Alexander Ernst <i>Institute of Anatomy, University of Bern</i> Actomyosin dynamics and the Bmp pathway drive apical extrusion of proepicardial cells
	17:00-17:15	Marcos Sande-Melón <i>Institute of Anatomy, University of Bern, Bern</i> Adult sox10+ cells contribute to myocardial regeneration in the zebrafish
	17:15-18:00	Keynote lecture 1 Prof. P. Alestrom <i>Norwegian University, Dept of Basic Sciences and Aquatic Medicine, Oslo</i> Towards European zebrafish guidelines.
	18:00-18:30	Business meeting
	18:30	End
	20:00	Diner

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Moderator : Prof. Stephan Neuhaus

Saturday 6th	08:00-08:15	Linda Bapst-Wicht <i>Institute of Research in Ophtalmology, Sion</i> Zebrafish model of the auculoauricular syndrome, recent advance in the role of hmx1 and hmx4 in the zebrafish
	08:15-08:30	Olivier F. Venzin <i>Ecole Polytechnique Fédérale de Lausanne</i> Investigation of the coupling mechanisms driving the synchronization of the segmentation clock.
	08:30-08:45	Domino K. Schlegel <i>Institute of Molecular Life Sciences, University of Zurich</i> Studying the role of CACNA2D4 in a rare type of retinal dysfunction
	08:45-09:00	Markus Masek <i>Institute of Medical Genetics, University of Zurich, Zurich</i> Comparative retinal transcriptomics of zebrafish ciliopathy mutants cc2d2a and talpid3
	09:00-09:15	Adriana L. Hotz <i>Institute of Molecular Life Sciences, University of Zurich</i> Knockout of the glutamate transporter eaat2a elicits spontaneous epileptic seizures in the larval zebrafish
	09:15-09:30	Carolina Garcia-Poyatos <i>Institut für Anatomie, Bern University, Bern</i> Lack of OXPHOS cIII-cIV superassembly decreases metabolic efficiency
	09:30-09:45	Irinka Castanon <i>Department of Biochemistry, University of Geneva</i> Membrane sphingolipid composition modulates palmitoylation of the Anthrax Toxin Receptor to regulate oriented cell division
	09:45-10:00	Nicola Regazzi <i>Department of Physiology & Institute of Sports Sciences, University of Lausanne</i> Time-course effect of exercise on zebrafish muscle
	10:00-10:30	Coffee Break

Moderator : Prof Francesca Amati

- 10:30-10:45 **Vaios Papaspyros**
Mobile Robots Group (Mrobots), EPFL, Lausanne
Leveraging auto-generated ethograms to produce realistic fish behaviour in groups of zebrafish
- 10:45-11:00 **Sarah Könemann**
Eawag, Swiss Federal Institute of Aquatic Science and Technology, Dübendorf
Attractive and aversive responses of zebrafish larvae to frequently detected classes of insecticides
- 11:00-11:15 **Colette M. vom Berg**
Eawag, Swiss Federal Institute of Aquatic Science and Technology, Department of Environmental Toxicology, Dübendorf
Analysis of inter-individual variability in locomotor activity of larval zebrafish as a basis to improve neurotoxicity testing of chemicals
- 11:15-11:30 **Roman Li**
Eawag, Swiss Federal Institute of Aquatic Science and Technology, Dübendorf
Systems toxicology approach for the assessment of imidacloprid neurotoxicity in zebrafish larvae
- 11:30-12:15 **Keynote lecture 2**
Prof. M. Mione
CIBIO - University of Trento, Italy
Visualizing cancer growth in zebrafish
- 12:15-12:20 **EuFusihBioMed Presentation awards for best presentations**
- 12:20 **End of meeting**