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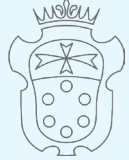
Istituto per lo studio, la prevenzione
e la rete oncologica

in collaboration with



FONDAZIONE GUIDO BERNARDINI
BETTER EDUCATION FOR BETTER SCIENCE

SCUOLA
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2nd ITALIAN EBRAFISH MEETING

This meeting will highlight and discuss emerging aspects of zebrafish research and promote networking among Italian researchers with the goal to disseminate the experience and philosophy of the European society (Eufishbiomed). The meeting is also a great opportunity to meet colleagues and students, share knowledges and practical experiences, coordinate national grant opportunities and local databases for fish lines and reagents, and promote new research issues among younger researchers.

January 30th - February 1st, 2019

Aula Magna - Polo Didattico Carmignani, Piazza dei Cavalieri - 56126 Pisa, Italy

FINAL PROGRAM

Wednesday January 30th

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| Opening registration | 12:00 |
| Welcome and opening addresses | 13:30 |
| 1st Afternoon session - presentations of SENIOR speakers on Development | |
| Evolution of neuronal circuits underlying locomotion in closely-related vertebrate species (Filippo Del Bene, Paris) | 14:00 |
| Exposure to cannabinoid receptor 1 ligands induces miswiring of GnRH3 and AgRP1 axons in the brain of zebrafish embryos (Giorgio Merlo, Torino) | 14:15 |
| Investigating the evolution of the vertebrate circadian clock: blind cavefish as model (Cristiano Bertolucci, Ferrara) | 14:30 |
| Disruption of circadian rhythms induces impairment of adult neurogenesis and gliosis in <i>Nothobranchius furzeri</i> brain (Eva Terzibasi Tozzini, Pisa) | 14:45 |
| Functional analysis of the age-regulated zinc finger factor <i>znf367</i> during embryonic neurogenesis (Michela Ori, Pisa) | 15:00 |
| The Wnt inhibitory factor <i>Wif1</i> controls the timing of neurogenesis important for brain asymmetry (Matthias Carl, Trento) | 15:15 |
| Tackling cell self-renewal, from retinal progenitors to adult Müller glial cells (Lucia Poggi, Trento) | 15:30 |
| A new <i>sox18</i> mutant supports evolutionary conservation in early lymphatic development from fish to mammals (Monica Beltrame, Milano) | 15:45 |
| Zebrafish model to visualise proliferation events in living animals illuminates stress-based systemic responses (Giulia Piaggio, Roma) | 16:00 |
| Coffee Break | 16:15 |
| 2nd Afternoon session - presentations of JUNIOR speakers on Development (Organogenesis and drug-screening) | |
| Exploring the molecular mechanisms of circadian clock-mediated regulation of angiogenesis (Matteo Astone, Padova) | 16:45 |
| Role of pentose phosphate pathway in angiogenesis and vascular myogenesis (Nicola Facchinello, Padova) | 17:00 |
| HDAC8 regulates canonical Wnt pathway to promote differentiation in skeletal muscles (Marco Spreafico, Milano) | 17:15 |
| Zebrafish as a model for dissecting the mechanisms involved in Collagen VI functions (Valentina Tonelotto, Padova) | 17:30 |
| Tissue specific, inducible gene modulation for studies of pancreatic islet morphogenesis (Julia Freudenblum, Innsbruck, AT) | 17:45 |
| <i>Ptx3b</i> affects primary cilium function during zebrafish development via FGF/FGFR system (Jessica Guerra, Brescia) | 18:00 |
| An experimental pipeline for toxicological screening of potential therapeutic compounds in developing zebrafish. (Chiara Reina, Palermo) | 18:15 |
| Zebrafish Larvae as a Model for Characterization of Drug-induced Behavioral Effects: Study in Methylxanthines (Ram Manohar Basnet, Brescia) | 18:30 |
| Effect of β -glucans on locomotion in zebrafish model of Duchenne Muscular Dystrophy (Letizia Brogi, Pisa) | 18:45 |
| Poster sessions | 19:00 20:00 |
| Cheese and Wine | 19:00 21:00 |

Thursday January 31st

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| Plenary session on Development (Prof. Steve Wilson - University College London, UK) | 09:00 |
| 1st Morning session - presentations of JUNIOR speakers on Development (Neurodevelopment) | |
| A comprehensive analysis of protein-transcript correlation and aggregation in the aging brain (Mariateresa Mazzetto, Pisa) | 10:00 |
| Environmental temperature variation affects brain protein expression and cognitive abilities in adult zebrafish (<i>Danio rerio</i>) (Arianna Racca, Roma) | 10:15 |
| A single-cell RNA-sequencing approach to characterize spatio-temporal patterning of neurogenesis in the zebrafish hindbrain (Monica Tambalo, London, UK) | 10:30 |
| Coffee Break | 10:45 |
| 2nd Morning session - presentations of JUNIOR speakers on Development (Behaviour and Metabolism) | |
| CRISPR/Cas9-induced inactivation of the autism risk gene <i>setd5</i> leads to social impairments in zebrafish (Chiara Gabellini, Pisa) | 11:15 |
| Neuronal basis of color discrimination in zebrafish larvae (Chiara Fornetto, Firenze) | 11:30 |
| Neural bases of quantity estimation in zebrafish (Andrea Messina, Trento) | 11:45 |
| Ordinal numerical competence in zebrafish (Davide Potrich, Trento) | 12:00 |
| A zebrafish model to study the role of mitochondrial Ca^{2+} uptake in physiology and pathology (Elisa Lidron, Padova) | 12:15 |
| Stat3 and Glucocorticoid receptor: characterization of a fundamental nuclear interaction and study of putative mitochondrial synergy (Alberto Dinarello, Padova) | 12:30 |
| Lunch | 12:45 |
| 1st Afternoon session - presentations of SENIOR speakers on Disease Modeling | |
| Mechanisms of amyloid-beta clearance in the zebrafish brain (Petronella Kettunen, Gothenburg, SE) | 14:00 |
| SBP2 deficiencies result in oxidative stress and aortopathy in zebrafish, recapitulating the human pathology (Federica Marelli, Milano) | 14:15 |
| The <i>gr-/-</i> zebrafish mutant line as a model to study metabolic diseases (Francesca Maradonna, Ancona) | 14:30 |
| <i>Pdx1</i> -deficient zebrafish display diabetes-induced vasculopathy in the retina (Jens Kroll, Mannheim, Germany) | 14:45 |
| Smart nanocarrier for enhanced ocular drug delivery in zebrafish embryos (Martina Giannaccini, Pisa) | 15:00 |
| Microplastics induce activation of immunity against extracellular antigens and metabolic shift in adult zebrafish (Annalaura Mancia, Ferrara) | 15:15 |
| Phage therapy against <i>Pseudomonas aeruginosa</i> infections in a cystic fibrosis zebrafish model (Anna Pisticchi, Milano) | 15:30 |
| The role of the endocannabinoid system in the Host-probiotic interaction: in-vivo and ex-vivo evidences (Giorgia Gioacchini, Ancona) | 15:45 |
| Smart screening libraries for academic use and post-screening services. (Marie-Louise Jung, Illkirch, France) | 16:00 |
| Coffee Break | 16:15 |
| 2nd Afternoon session - presentations of JUNIOR speakers on Disease Modeling (Neurological Disease Models) | |
| The zebrafish ortholog of the human hepatocerebral disease gene <i>MPV17</i> plays pleiotropic roles in mitochondria (Laura Martorano, Padova) | 16:45 |

Thursday January 31st

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| Modeling Alexander disease in zebrafish by expressing glial fibrillary acidic protein carrying the R239C mutation (Valentina Obino, Genova) | 17:00 |
| Zebrafish as a model for epilepsy research: an integrated study of electrophysiology and two-photon Ca-imaging. (Maria Marchese, Pisa) | 17:15 |
| Whole-brain neuronal dynamics during seizures in zebrafish (Lapo Turrini, Firenze) | 17:30 |
| The turquoise killifish <i>Nothobranchius furzeri</i> as a model for neurodegeneration (Sara Bagnoli, Pisa) | 17:45 |
| Social Dinner (for those who chose to attend) | 20:00 |

Friday February 1st

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| Plenary session on Disease Modeling (Dr. Richard White - Memorial Sloan Kettering Cancer Center, USA) | 09:00 |
| 1st Morning session - presentations of JUNIOR speakers on Disease Modeling (Melanoma models) | |
| The RUNT domain of RUNX2 increases migration of melanoma cells in zebrafish (Giulia Marchetto, Trento) | 10:00 |
| Zebrafish melanoma models provide insights on miR-204 role in pigmentation, tumorigenesis and drug sensitivity (Samanta Sarti, Pisa) | 10:15 |
| Automated in vivo screen of a zebrafish melanoma model identifies FDA-approved drugs for combinatorial treatments (Francesca Precazzini, Trento) | 10:30 |
| Coffee Break | 10:45 |
| 2nd Morning session - presentations of JUNIOR speakers on Disease Modeling (Cancer and other disease models) | |
| nipbl, a new player with npmc+ in myeloid cells differentiation (Alex Pezzotta, Milano) | 11:15 |
| Mechanisms of telomere maintenance in pediatric brain tumors: insights from pre-clinical models (Aurora Idilli, Trento) | 11:30 |
| Novel zebrafish models of sarcoglycanopathy (Michela Soardi, Padova) | 11:45 |
| The interphotoreceptor matrix: role of IMPG2 in zebrafish retinal development and function (Maria Elena Castellini, Trento) | 12:00 |
| Closing Remarks | 12:15 13:00 |

Detailed information on the Registration, and other important information are available on the website of ZFIM2019 at:
<http://zfim2019.webs.com/>

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