

Gli organizzatori vi danno il benvenuto al primo ZebraFish Italian Meeting (ZFIM)

Padova, 2-3 Febbraio 2017

Comitato organizzatore:

Francesco Argenton UNIPD
Maria Caterina Mione UNITN
Marco Presta UNIBS
Massimo Santoro UNITO
Paolo Sordino SZN A. Dohrn
Stefania Fantino TECNIPLAST

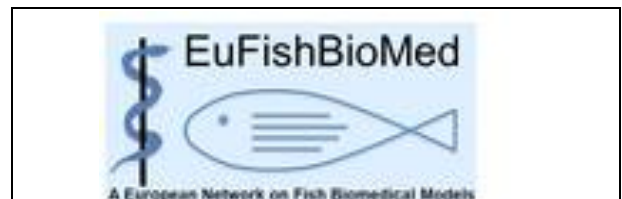
Comitato Locale:

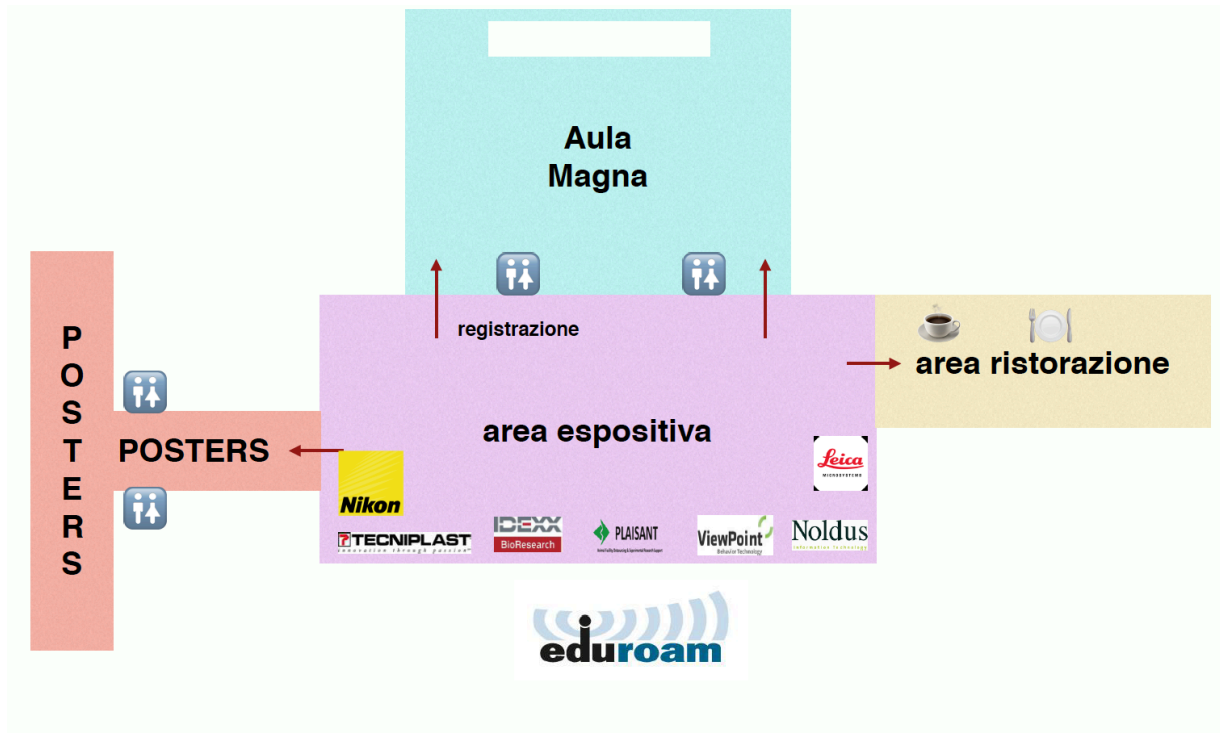
Natascia Tiso UNIPD
Andrea Vettori UNIPD

Segreteria Organizzativa

Cecilia Zattara
Daniela Rosin
Maria Manno
Giuseppe Cortese

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PROGRAMMA

February 2nd 2017

Registration: 8.00-9.15

Welcome: 9.15

1st Morning session 9.30-11.00 Chairperson N. Tiso

6x15' presentations (Neurosciences and behaviour)

- 1) Tyrone Lucon-Xiccato, Padova, *New paradigms for studying learning and memory in zebrafish*
- 2) Davide Potrich, Trento, *Quantity Discrimination by Zebrafish (Danio rerio)*
- 3) Claudio Agnisola, Napoli, *Can the Earth-strength magnetic field influence the orientation to water flows in zebrafish?*
- 4) Filippo Del Bene, Paris, *Deciphering anatomy and function of an inter-hemispheric neural circuit in the zebrafish optic tectum*
- 5) Jean-Michel Cioni, Cambridge, UK, *Cytoplasmic FMR1-interacting protein 2 regulates axonal sorting in the optic tract*
- 6) Rosa Maria Sepe, Biology, Napoli, *Important role of endocannabinoid signalling in the development of functional vision and locomotion in zebrafish*

Coffee Break

2nd Morning session 11.30-13.00 Chairperson M. Mione

6x15' presentations (Disease Models I)

- 1) Diana Corallo, Padova, *Role of LIN-28B in neural crest cell development, differentiation and oncogenesis*
- 2) Anna Pistocchi, Milano, *From zebrafish to human: cohesins dysregulation and leukemia*
- 3) Alessandro Cellerino, Pisa, *From the bush to the bench: the genome of a short-lived african fish reveals novel aspects of the genetic control of vertebrate aging*
- 4) Marina Mione, Trento, *A preclinical zebrafish model of brain tumor with alternative mechanisms of telomere maintenance (ALT)*
- 5) Valentina Tonelotto, Padova, *Zebrafish as a model for dissecting the signals regulated by Collagen VI: novel insights on COL6-related neuromuscular disorders*
- 6) Maria Marchese, Pisa, *Zebrafish: a tool to study muscular dystrophies*

Buffet Lunch and Poster session 13.00-14.30

1st Afternoon session 14.30-15.45 Chairperson M. Presta

5x15' presentations (Disease Models II)

- 1) Stefania Bellesso, Padova, *Deregulated FGF signaling substantially contributes to early osteogenic defects in Mucopolysaccharidosis type II.*
- 2) Valeria Mastrodonato, Milano, *A model of CEDNIK syndrome generated by CRISPR/Cas9 gene editing*
- 3) Marco Schiavone, Padova, *Protective effect of Alisporivir - a cyclophilin inhibitor without immunosuppressive activity - in Duchenne muscular dystrophy*

- 4) *Giuseppe Paganini, Brescia, b-galactosylceramidase affects melanocyte differentiation and neoplastic progression*
- 5) *Giulia Fasano, Napoli, Effects of Methylcyclopentadienyl Manganese Trycarbonil on dopaminergic neurons in zebrafish*

Coffee Break

2nd Afternoon session 16.15-18.00 Chairperson M. Santoro

7x15' presentations (Cardiovascular, endocrine and metabolism)

- 1) *Davide Pradella, Milano, Nova2 alternative splicing regulation of the Netrin receptor Unc5b during angiogenesis.*
- 2) *Claudio Laquatra, Padova, Zebrafish (Danio rerio) as a model to study the pathophysiological role of the mitochondrial chaperone TRAP1.*
- 3) *Federica Marelli, Milano, Zebrafish as a new model to study in vivo the functional consequences of human THRA variants*
- 4) *Nicola Facchinello, Padova, Generation and characterization of a zebrafish null mutant for the glucocorticoid receptor gene.*
- 5) *Monica Beltrame, Milano, A novel Sox/Notch regulatory network to fine-tune zebrafish vascular development*
- 6) *Giuseppe Montalbano, Messina, Melatonin treatment suppresses appetite genes and improves adipose tissue plasticity in diet-induced obese (DIO) zebrafish.*
- 7) *Immacolata Porreca, Ariano Irpino, In vivo characterization of a long non-coding RNA during development*

February 3rd 2017

1st Morning session 9.30-10.30

Plenary Lecture Prof. Stainier "Cardiomyocyte behavior and genetic compensation in zebrafish".

Coffee Break

2nd Morning session 11.00-12.30 Chairperson D. Stainier

6x15' presentations (Development and Organogenesis)

- 1) *Jessica Guerra, Brescia, Ptx3b affects primary cilium function during zebrafish development*
- 2) *Daniela Zizioli, Brescia, Zebrafish sialidase neu3.2: insight on its role during zebrafish development*
- 3) *Margherita Peron, Padova, Stat3-dependent mitochondrial DNA transcription drives stem cells proliferation in zebrafish*
- 4) *Giuditta Rurale, Milano, Unraveling the Sonic Hedgehog-Glis3 pathway involvement in the specification of the thyroid gland in zebrafish*
- 5) *Pamela Floris, Milano, Role of the SMYD3 methylase in embryonic stem cells differentiation and zebrafish development*
- 6) *Elena Guzzolino, Pisa, MiR-182 is a Tbx5 effector during heart development in zebrafish*

Buffet Lunch and Poster session 12.30-14.30

1st Afternoon session 14.30-15.45 Chairperson S. Fantino

5x15' presentations (Husbandry and Health issues)

- 1) *Livia D'Angelo, Napoli, Legislative aspects behind zebrafish research*
- 2) *Tommaso Sala, Buguggiate, Zebrafish breeding: a standard overview and latest improvements.*
- 3) *Ludovico Scenna, Padova, Zebrafish Humane endpoints and Health monitoring*
- 4) *Massimo Foà, Ludwigsburg, Designing health monitoring scheme for Zebrafish*
- 5) *Vincenzo Cavalieri, Palermo, The zebrafish facility of the Mediterranean Center for Human Health Advanced Biotechnologies*

Coffee Break

2nd Afternoon session 16.15-17.15 Chairperson P. Sordino

15' presentations (Technologies)

- 1) *Lapo Turrini, Firenze, Functional imaging of zebrafish neuronal activity by Bessel illumination-based SPIM*
- 2) *Sara Gargiulo, Napoli, Imaging of adult zebrafish models*
- 3) *Rosario Licitra, Pisa, Investigating fishmeal replacement with insect meal in "aquafeed" using zebrafish (Danio rerio) as animal model*

Community meeting 17.20-18.00

POSTERS

1	Caldara	Gaetano Felice	Laws, Guideline and welfare in Zebrafish
2	Fronte	Baldassare	Investigations on the effect of β -glucan on tissues regeneration, wound healing and disease resistance, using zebrafish (<i>Danio rerio</i>) as animal model
3	Fronte	Baldassare	Effects of fishmeal replacement with insect meal on intestinal morphometry in zebrafish (<i>Danio rerio</i>)
4	Gabellini	Chiara	Role of the chromatin regulator <i>setd5</i> during zebrafish brain development
5	Flavia Frabetti	Gianluca Deflorian	CYYR1: a new gene involved in Hh-mediated myogenesis and neuromasts differentiation during zebrafish development.
6	D'Aniello	Salvatore	Novel implications in Neurotrophins during the development of the zebrafish nervous system
7	D'Aniello	Enrico	Depletion of Retinoic Acid Receptors Initiates a Novel Positive Feedback Mechanism that Promotes Teratogenic Increases in Retinoic Acid
8	Finazzi	Dario	Down-regulation of <i>coasy</i> , the gene associated with NBIA-VI, reduces Bmp signaling, perturbs dorso-ventral patterning and alters neuronal development in zebrafish.
9	Agnisola	Claudio	Can the Earth-strength magnetic field influence the orientation to water flows in zebrafish?
10	Terzibasi Tozzini	Eva	Disruption of circadian rhythms induces impairment of adult neurogenesis and gliosis in <i>Nothobranchius furzeri</i> brain
11	Guarienti	Michela	In vivo characterization of behavioral and pharmacological effects of methylxanthine drugs in zebrafish embryos.
12	Cellerino	Alessandro	<i>Nothobranchius furzeri</i> as a novel model organism to study the genetic architecture of lifespan evolution
13	Martorano	Laura	Modelling mtDNA depletion syndromes in <i>Danio rerio</i>
14	Santangeli	Stefania	Epigenetic role of BPA on zebrafish
15	Bragato	Cinzia	A translational approach to neuromuscular diseases based on zebrafish studies: from human to zebrafish and back
16	Carnovali	Marta	Zebrafish scale as innovative read-out system for bone metabolism studies: the glucocorticoid-induced osteoporosis model
17	Sicca	Federico	Applying morphant zebrafish larvae for modeling epilepsy in Kir channels disorders
18	Tregnago	Claudia	CREB engages C/EBP δ to initiate leukemogenesis
19	Priami	Chiara	The role of the p53/p66Shc pathway in development and aging: Zebrafish and <i>Nothobranchius</i> as model organisms
20	Muñoz	Leonel	Metastatic potential of human colon cancer cell lines in zebrafish xenografts are associated to the expression of stemness and cell adhesion markers.
21	Nittoli	Valeria	The neuroinflammatory response following acute seizures during zebrafish brain development.
22	Notarstefano	Valentina	Detrimental effects of diisononyl phthalate on <i>Danio rerio</i> reproduction
23	Ori	Michela	<i>Danio rerio</i> as model to unravel new pathological mechanisms and to develop new therapies against glioblastoma
24	Khatri	Deepak	Overexpression of human mutant PANK2 mRNAs in zebrafish embryos to gain insight about PKAN pathogenesis
25	La Spina	Martina	Pterostilbene partially rescues the phenotype of CollagenVI dystrophic zebrafish morphants
26	Lidron	Elisa	MCU knock-down impairs skeletal muscle and motor neuron development in zebrafish embryo
27	Casarosa	Simona	Autosomal recessive Retinitis Pigmentosa: targeting IMPG2
28	Varrinelli	Marco	Knock-down and knock-out: use of two techniques to understand the role of AP-1 complex in zebrafish
29	Anelli	Viviana	Generation and characterization of zebrafish models of uveal melanoma
30	Pezzotta	Alex	Sox18: of morphants and mutants
31	Meneghetti	Giacomo	CRISPR-Cas9 mediated knockout of zebrafish <i>epg5</i> gene to study its functions during development and adult life
32	Barca	Amilcare	In vivo monitoring of pH variations in the zebrafish gut lumen after oral administration of ion/acid-base transport inhibitors
33	Verri	Tiziano	Teleost fish models in membrane transport research: the PEPT1(SLC15A1) H ⁺ -oligopeptide transporter paradigm
34	Turrini	Lapo	Optical mapping of neuronal activity during seizures in Zebrafish
35	Manzoni	Marta	Sialidase <i>neu4</i> of <i>Danio rerio</i> impairs CNS ventricle formation during embryogenesis.

PARTECIPANTI

COGNOME	NOME	CITTA
ABRAMO	FRANCESCA	PISA
AGNISOLA	CLAUDIO	NAPOLI
ALTAFAJ	ALBERT	VERONA
ANDREAZZOLI	MASSIMILIANO	PISA
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ANGIULLI	ELISA	ROMA
BALDASSARE	FRONTE	PISA
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