XX IDRC

6-8th March 2024 | Milan

PROGRAM

Wednesday, March 6

14:00
Registration

14:30 - 15:30
Keynote 1 Prof.Dr.Aurelio Teleman | DKFZ, Heidelberg, Germany
Regulation of tissue size

15:30-16:40
Session 1 Mechanisms of tumorigenesis
Chair Andrea D'Alessandro & Valeria Specchia

15:30 **Anna Frappaolo** | IBPM CNR, Rome
GOLPH3 protein controls organ growth by interacting with TOR signaling proteins in Drosophila

15:55 **Simona Totaro** | University of Milan, Milan
In vivo effects of pharmacologic and genetic PARP inhibition on Cohesin-mediated phenotypes using Drosophila melanogaster

16:05 **Giulia Tesoriere** | University of Rome La Sapienza
Vitamin B6 deficiency cooperates with oncogenic ras to induce malignant tumors in Drosophila

16:15 **Susumu Hirabayashi** | MRC Laboratory of Medical Sciences, London, UK
Exploring host-tumour metabolic interactions

16:40 - 17:10
Coffee Break

17:10 - 18:30
Session 2 Environment, physiology and disease
Chair Giulia Tesoriere & Alessia Soldano

17:10 **Maria Dolores De Donno** | University of Salento, Lecce
SAPK signalling activation and functional impairment in cadmium stressed fly brains

17:35 **Morciano Patrizia** | University of L' Aquila, L' Aquila
In vivo underground radiobiology at INFN-Laboratori Nazionali del Gran Sasso

17:45 **Del Quondam Simona** | Tuscia University, Viterbo
Modeling of second-generation antipsycotic-induced metabolic alterations in the fruit fly Drosophila melanogaster

17:55 **Nadia Ceccato** | University of Padua, Padua

Drosophila melanogaster as a model to investigate the link between circadian clock and neurodegenerative disorders

18:05 **Luca Valzania** | Institut Curie, Paris

A temporal allocation of amino acid resources ensures fitness and body allometry

19:30
Social dinner

Thursday, March 7

9:00-10:40
Session 3 Shaping the nervous system

Chair Nadia Ceccato & Laura Ciapponi

9:00 **Alessia Soldano** | SISSA, Trieste

Deciphering the role of the epitranscriptomic modification m6A in glia during brain development

9:25 **Erika Donà** | CNR IN, Milan

Mapping the developmental transcriptomic atlas of the nerve cord to its connectome

9:50 **Maria Patrizia Somma** | CNR-IBPM, Rome

Chromatin alteration and lamin dysfunction in primary microcephaly Drosophila models

10:15 **Simona Polo** | IFOM, Milan

HECW1: navigating the nexus of neurodevelopment and neurodegeneration

10:40-11:10
Coffee Break

11:10 - 12:55
Session 4 Neurodegeneration

Chair Liliana Tullo & Luca Valzania

11:10 **Ruben Cauchi** | University of Malta, Msida

Linking Genetic Risk Factor SCFD1 to ALS Pathophysiology

11:35 **Laura Ciapponi** | University of Rome, Rome
Suv3-9 mediated methylation controls Age-Related TDP-43 Decline, Triggering neurodegeneration

12:10 **Davide Colaianni** | University of Padua, Padua
miR-210 is essential to retinal homeostasis in fruit flies and mice

12:20 **Giuliana Cesare** | University of Milan, Milan
The role of the E3 ubiquitin ligase Hecw in autophagy

12:30 **Cosimo Sabino** | University of Trento, Trento
Rapamycin deregulated genes as new potential targets of antiaging interventions

12:40 **Ziviani Elena** | University of Padua, Padua
Mitophagic effectof USP14 inhibition rescues circadian defects and sleep disturbance of an in vivo model of Parkinson's disease

12:55-13:10
Sponsor talk

13:30-14:45
Lunch

14:45-16:00
Session 5 In vivo mechanobiology
Chair Livia Scatolini & Antonio Galeone

14:45 **Francesco Napoletano** | University of Trieste, Trieste
Exploring the impact of mechanical stress in neurodegeneration

15:10 **Alessandro Scopelliti** | University of Edinburgh, Edinburgh, UK
The mechanosensitive channel Piezo delays epidermal wound closure to ensure effective inflammatory response and restoration of epithelial integrity

15:35 **Matteo Rauzi** | University Côte d'Azur, Nice, France
Nuclear migration controls the activity of cortical actomyosin networks powering tissue morphogenesis

17:00
Visit to Fondazione Prada

Friday, March 8

09:00-10:20

Session 6 Disease models

Chair Simona Del Quondam & Francesco Napoletano

9:00 **Antonio Galeone** | CNR-Nanotech, Lecce
Role of glycosylation-related genes in signaling pathways and diseases

9:25 **Gaia Consonni** | University of Milan, Milan
The role of nutritional intervention and of the microbiota in a Drosophila model of NGLY deficiency

9:35 **Andrea D'Alessandro** | University of Rome, Rome
A novel inherited TBX3 missense variant is associated with a prenatal case of ulnar mammary syndrome and induces development defects when expressed in Drosophila

9:45 **Giulia Vitale** | University of Milan, Milan
An in vivo model of intractable R257C-ACTG2 Visceral Myopathy to study pathogenesis and to identify new disease targets

9:55 **Damiano Guerrini** | University of Rome, Rome
Investigating transcriptional stress in Drosophila model for SMA

10:20-10:50

Coffee Break

10:50-12:00

Session 7 Inside the cell

Chair Damiano Guerrini & Elena Ziviani

10:50 **Liliana Tullo** | University of Rome, Rome
Assessing an unprecedented role for Heterochromatin Protein 1a (HP1a) at mitochondria

11:15 **Livia Scatolini** | University of Rome, Rome
Live imaging analysis of mutations affecting chromosome stability in drosophila embryos

11:25 **Valeria Manara** | University of Trento, Trento
Reduction of nucleolar NOC1 induces MYC-dependent nucleolar stress and p53 upregulation: a novel response to ribosomal biogenesis impairments

11:35 **Manuela Santalla** | CNR-Neuroscience Institute, Padua
Endoplasmic/ Sarcoplasmic Reticulum shaping impacts on intracellular calcium handling in Drosophila melanogaster

12:00-13:00
Keynote 2 Florence Besse | iBV, Nice (France) | remote connection
Regulating RNA in space and time in the fly nervous system

13:00 - 13:10
Prizes and concluding remarks

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European Drosophila Society

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