Monday, April 8, 2019

8.30  Registration

9.00  Welcome by Francesc Posas (IRB Barcelona Director) and organizers

Session I

9.15  Developmental cancer: where oncology meets embryology
      Jaume Mora, Sant Joan de Déu Barcelona Children’s Hospital (Barcelona, Spain)

9.45  The two faces of JNK in Drosophila: pro-apoptotic and pro-tumorigenic
      Ginés Morata, Centro de Biología Molecular, CSIC-UAM (Madrid, Spain)

10.15 - 11.00  Coffee break and poster session

11.00  Understanding genome instability of adult intestinal stem cells
        Allison Bardin, Institut Curie (Paris, France)

11.30  Short talk 1  Collective cell migration and metastases induced by an epithelial
to-mesenchymal transition in Drosophila intestinal tumors
        Andreu Casali, IRB Lleida (Lleida, Spain)

11.45  Short talk 2  Cytoneme-mediated signaling essential for tumorigenesis
        Sol Fereres, University of California (San Francisco, CA, USA)

12.00  Non-apoptotic Roles of Caspases for Proliferation and Cancer in Drosophila
        Andreas Bergmann, University of Massachusetts Medical School (Worcester, MA, USA)

12.30  Autophagy and Cancer: What Flies Tell Us
        Tor Erik Rusten, The Norwegian Radium Hospital, Oslo University Hospital
        (Montebello, Oslo, Norway)

13.00 - 15.00  Lunch (IEC courtyard)
Session II

15.00  Ablation of Arf1-mediated lipolysis pathway kills cancer stem cells and elicits anti-tumor responses in Drosophila and mice  
Steven X. Hou, NCI Center for Cancer Research (MD, USA)

15.30  Short talk 3 Diet-enhanced Drosophila tumors induce muscle wasting as a nutrient-scavenging metabolic program  
Susumu Hirabayashi, MRC London Institute of Medical Sciences (London, UK)

15.45  Selective killing of RAS-malignant tissues by exploiting oncogene-induced DNA damage  
Marco Milán, IRB Barcelona/ICREA (Barcelona, Spain)

16.15 - 17.00  Coffee break and poster session

17.00  Cell polarity tumour suppressors in signalling pathway regulation and tumourigenesis  
Helena Richardson, La Trobe University (Victoria, Australia)

17.30  Short talk 4 Decoding nutrient sensing and metabolic rewiring in the Hipk tumor model  
Esther M. Verheyen, Simon Fraser University (Burnaby, Canada)

17.45  Short talk 5 Deciphering the Molecular Networks that link Diet, Dietary Diseases and Cancer  
Linda M. Parsons, School of Medicine University of Tasmania (Hobart, Australia)

18.00  Tumor progression via microRNA-mediated inhibition of cellular senescence  
Tatsushi Igaki, Kyoto University Graduate School of Biostudies (Kyoto, Japan)

18.30  End of session

Tuesday, April 9, 2019

Session III

9.00 Drosophila gut tumors and organ wasting  
Norbert Perrimon, Harvard Medical School (Boston, MA, USA)

9.30  PRC1 Polycomb complex facilitates stage-specific enhancer-promoter contacts during Drosophila development  
Anne-Marie Martinez, University of Montpellier, Institute of Human Genetics - CNRS (Montpellier, France)

10.00  Short talk 6 Application of single-cell RNA sequencing (Drop-seq) to dissect tissue heterogeneity in development and disease  
Maxim V Frolov, University of Illinois at Chicago (Chicago, USA)
10:15- 11.00  Coffee break and poster session

11.00  **Modeling the genetic complexity of colorectal cancer in Drosophila**
Erdem Bangi, Florida State University (FL, USA)

11.30  **Short talk 7  Active wingless vampirization by glioblastoma network leads to brain tumor growth and neurodegeneration**
Marta Portela, Instituto Cajal-CSIC (Madrid, Spain)

11.45  **Short talk 8  A systematic investigation of intratumor heterogeneity in a Drosophila tumor model through single-cell transcriptomic analysis**
Yan Yan, Hong Kong University of Science and Technology (Hong Kong, China)

12.00  **Cell competition and cancer**
Eduardo Moreno, Champalimaud Centre for the Unknown (Lisbon, Portugal)

12.30  **Sensing and Responding to Differences in Cell Fitness During Tissue Growth**
Laura A. Johnston, Columbia University Medical Center (New York, NY, USA)

13.00 - 15.00  **Lunch (IEC courtyard)**

Session IV

15.00  **Immune escape of tumors relies on remote metabolic shift**
María Domínguez, Neuroscience Institute of Alicante, UMH-CSIC (San Juan de Alicante, Alicante, Spain)

15.30  **Short talk 9  MYC-induced super competition requires the SSF1/SSF2 ortholog Peter Pan**
Norman Zielke, University of Helsinki (Helsinki, Finland)

15.45  **Cytokinesis failure, miRNAs, and tumor formation**
Héctor Herranz, University of Copenhagen (Copenhagen, Denmark)

16.15-17.00  Coffee break and poster session

17.00  **Modeling brain tumors in Drosophila-putting an end to dedifferentiation**
Hongyan Wang, Duke-NUS Medical School (Singapore, Singapore)

17.30  **Short talk 10  Coordination between cell proliferation and apoptosis after DNA damage**
Carlos Estella, Centro de Biología Molecular Severo-Ochoa. CSIC (Madrid, Spain)

17.45  **Short talk 11  Non-autonomous stress responses in the host intestine function as a tumor-suppressive mechanism in Drosophila**
Yu-ichiro Nakajima, Frontier Research Institute for Interdisciplinary Sciences, Tohoku University (Sendai, Japan)
18.00 An integrated approach to cancer therapeutics
Ross Cagan, Icahn School of Medicine at Mount Sinai (New York, NY, USA)

18.30 End of session

20.30 Speakers dinner
(Restaurant els 4 Gats, Montsiò, 3)

Wednesday, April 10, 2019

Session V

9.00 Asymmetric division of Drosophila neural stem cells in development and tumorigenesis
Ana Carmena, Neuroscience Institute of Alicante, UMH-CSIC (San Juan de Alicante, Alicante, Spain)

9.30 Short talk 12 The role of hydroxyproline in cancer-induced organismal death in Drosophila melanogaster
Lynna Yang, RIKEN Center for Biosystems Dynamics Research (Kobe, Japan)

9.45 Deciphering the mechanisms of cell hierarchy within neuro-developmental tumors
Cédric Maurange, IBDM, Aix-Marseille University, CNRS (Marseille, France)

10.15 - 11:00 Coffee break and poster session

11.00 Using Drosophila larval brain tumours to understand malignant and normal growth during development
Cayetano González, IRB Barcelona/ICREA (Barcelona, Spain)

11.30 Short talk 13 Cell-cell Interactions promoting Oncogenic Ras-mediated Tumor Overgrowth
Chiswili Yves Chabu, University of Missouri (Columbia, Missouri, USA)

11.45 A multidisciplinary approach to drug target discovery for brain tumors: from Drosophila glia to human glioblastoma
Renee Read, Winship Cancer Institute, Emory University School of Medicine (Atlanta, GA, USA)

12.15 A large-scale resource for tissue-specific CRISPR mutagenesis in Drosophila
Michael Boutros, German Cancer Research Center (DKFZ) and Heidelberg University (Heidelberg, Germany)

12.45 Closing remarks & end of conference