



INSTITUTE
FOR RESEARCH
IN BIOMEDICINE

Barcelona BioMed Conference

Drosophila as a model in cancer

June 15-17, 2015

Programme

Monday, June 15, 2015

- 8.30 Registration
- 9.00 Welcome by Joan J. Guinovart
- 9.15 **Niche Appropriation by Drosophila Intestinal Stem Cell Tumors**
Bruce A. Edgar, Zentrum für Molekulare Biologie der Universität Heidelberg (Heidelberg, Germany)
- 9.45 **A Rapid One-Generation Genetic Screen in a Drosophila Model to Capture Rhabdomyosarcoma Effectors and Therapeutic Targets**
Rene L. Galindo, UT Southwestern Medical Center (Dallas, TX, USA)
- 10.15 - 11.00 Coffee break and poster session
- 11.00 **The contribution of genomic instability to malignant growth in DROSOPHILA**
Cayetano González, ICREA Research Professor/ IRB Barcelona (Barcelona, Spain)
- 11.30 **Short talk 1: Massive redeployment of Polycomb proteins during larval development associated with tumor suppression by PRC1 components**
Anne-Marie Martínez, Institute of Human Genetics, CNRS-UPR (Montpellier, France)
- 11.45 **MicroRNAs and cell competition in EGFR driven tumors**
Héctor Herranz, University of Copenhagen (Copenhagen, Denmark)
- 12.15 **Identification of the ligand-receptor system that governs tumor suppressive cell competition**
Tatsushi Igaki, Kobe University Graduate School of Medicine (Kobe, Japan)

- 12.45 **Short talk 2: Differential behavior of cells lacking the tumor suppressors PTEN and Tsc1 in Drosophila**
Hugo Stocker, Institute of Molecular Systems Biology, ETH (Zürich, Switzerland)
- 13.00 - 15.00 **Lunch (FrescCo, C/ Carme, 16)**
- 15.00 **The 3Rs in oncology: pioneering better science**
Sam Jackson, National Centre for the Replacement, Refinement and Reduction of Animals in Research (London, UK)
- 15.30 **Short talk 3: Germline stem cell differentiation, maintenance of sexual identity and tumorigenesis**
Helen Salz, Case Western Reserve University (Cleveland, OH, USA)
- 15.45 **An Ancient Defense System Regulates Tissue Fitness During Growth**
Laura A. Johnston, Columbia University Medical Center (New York, NY, USA)
- 16.15 - 17.00 **Coffee break and poster session**
- 17.00 **Alternative end-joining repair in Drosophila: a low-fidelity solution to prevent genomic catastrophe**
Mitch McVey, Tufts University (Medford, MA, USA)
- 17.30 **Short talk 4: High baseline of intestinal stem cell mitosis associates with excessive intestinal inflammatory signaling and tumorigenesis upon infection in Drosophila**
Chrysoula Pitsouli, University of Cyprus (Nicosia, Cyprus)
- 17.45 **Delineating the molecular and cellular mechanisms underlying CIN-induced programmed cell death and tumorigenic behavior in epithelial tissues**
Marco Milán, ICREA Research Professor/ IRB Barcelona (Barcelona, Spain)
- 18.15 **Short talk 5: The tissue overgrowths caused by Drosophila undead cells require long-range diffusion of Wingless**
Luna Ballesteros-Arias, Centro de Biología Molecular Severo Ochoa. CSIC-UAM (Madrid, Spain)
- 18.30 **Short talk 6: Hormonal control of intestinal stem cell homeostasis and tumorigenesis**
Andreu Casali, IRB Barcelona (Barcelona, Spain)

Tuesday, June 16, 2015

- 9.00 **Fitness fingerprints of animal cells in cancer and ageing**
Eduardo Moreno, University of Bern (Bern, Switzerland)
- 9.30 **Local activation of Yorkie induces organ wasting in Drosophila**
Norbert Perrimon, Harvard Medical School (Boston, MA, USA)

- 10.00 **Short talk 7: Transcription factor network drives JNK-mediated tumor malignancy**
Mirka Uhlirova University of Cologne (Cologne, Germany)
- 10.15 - 11.00 **Coffee break and poster session**
- 11.00 **An Multidisciplinary Approach to Drug Target Discovery for High Grade Gliomas**
Renee D. Read, Emory University School of Medicine (Atlanta, GA, USA)
- 11.30 **Dissection of Ras-driven, polarity-impaired tumorigenesis, using the Drosophila eye-antennal epithelium**
Helena E. Richardson, Peter MacCallum Cancer Centre Melbourne (Victoria, Australia)
- 12.00 **Autophagy dependence for tumor growth**
Tor Erik Rusten, Oslo University Hospital (Oslo, Norway)
- 12.30 **Modeling Host-Tumor Interactions in Drosophila**
Pradip Sinha, Indian Institute of Technology Kanpur (Kanpur, India)
- 13.00 - 15.00 **Lunch (FresCo, C/ Carme, 16)**
- 15.00 **Drosophila as a model for radiation responses of human cancers**
Tin-Tin Su, University of Colorado (Boulder, CO, USA)
- 15.30 **Systemic effects of tumour related inflammation**
Marcos Vidal, Beatson Institute for Cancer Research (Glasgow, UK)
- 16.00 **Short talk 8: A conserved tumor suppressive role of the SNARE protein Snap29 in kinetochore formation**
Thomas Vaccari Institute of Molecular Oncology (Milan, Italy)
- 16.15-17.00 **Coffee break and poster session**
- 17.00 **From fly hematopoiesis to human leukemia**
Lucas Waltzer, Centre de Biologie du Développement (Toulouse, France)
- 17.30 **Regulation of Drosophila neural stem cell self-renewal and differentiation**
Hongyan Wang, Duke-NUS Graduate Medical School (Singapore, Singapore)
- 18.00 **Exploring the nature of oncogene induced Warburg shift**
Utpal Banerjee, University of California (Los Angeles, CA, USA)
- 18.30 **Short talk 9: The Drosophila endoderm as a model for the role of GATA factors in EMT and migration**
Jordi Casanova, IRB Barcelona/CSIC (Barcelona, Spain)
- 20.30 **Speakers dinner "Restaurant Attic" (C/Ramblas, 120)**

Wednesday, June 17, 2015

- 9.00 **Frequent somatic mutation drives neoplasia and genetic mosaicism in aging adult intestinal stem cells**
Allison J. Bardin, Institute Curie Research division (Paris, France)
- 9.30 **Tumorous effectors of polarity loss**
David Bilder, University of California (Berkeley, CA, USA)
- 10.00 **Short talk 10: Modeling Malignant Rhabdoid Tumor in Drosophila**
Wu-Min Deng, The Florida State University (Tallahassee, FL, USA)
- 10.15 - 11:00 **Coffee break and poster session**
- 11.00 **Neuronal dedifferentiation and tumour formation**
Andrea H. Brand, University of Cambridge (Cambridge, UK)
- 11.30 **A Fly Approach to Personalized Cancer Therapeutics**
Ross Cagan, Icahn School of Medicine at Mount Sinai (New York, NY, USA)
- 12.00 **Regulation of mitosis by Crumbs and Xeroderma pigmentosum D**
Kwang-Wook Choi, Korea Advanced Institute of Science and Technology (Daejeon, Korea)
- 12.30 **Short talk 11: Combined drug screening and phospho-proteomic analysis identifies strategies for Notch/Akt resistant tumors**
S. Nahuel Villegas, Instituto de Neurociencias, UMH-CSIC (Alicante, Spain)
- 12.45 Closing remarks