Barcelona BioMed Conference
CANCER PROMOTION understanding cancer promotion to inform prevention (3-5 June, 2024)

Monday, 3 June

8.30  Registration

9.00  Welcome by Directorate of IRB Barcelona and organizers
      (Dr. Núria López-Bigas, Dr. Allan Balmain, Dr. Paul Brennan)

Session I: Epidemiology, risk factors and cancer prevention
Chair: Dr. James DeGregori, University of Colorado (Denver, CO, USA)

9.15  Tracing the origins and evolution of cancers induced by environmental carcinogens
      Dr. Allan Balmain, UCSF (San Francisco, CA, USA)

9.50  The Promoter Hypothesis: A Long View from the History and Philosophy of Science
      Dr. Anya Plutynski, Washington University (St. Louis, MO, USA)

10.25 Short talk 1

10.40 -11.15  Coffee break and poster session

11.15  Title to be confirmed
        Dr. George Davey-Smith, Bristol University (Bristol, UK)

11:50  Short talk 2

12.05  Short talk 3
12.20 The mutagenic and promotional effect of known and suspected risk factors across multiple cancer sites - Emerging results from Mutographs
Dr. Paul Brennan, IARC (Lyon, France)

12.55 -14.00  Lunch and poster session

Session II: Clonal expansions in normal tissues
Chair: Dr. Dan Landau, NY Genome Center (New York, NY, USA)

14.00 Somatic mutations, clonal expansions, and cancer risk
Dr. Rosana Risques, UW Medicine (Seattle, WA, USA)

14.35 Comparative two-stage chemical carcinogenesis in the skin: from mouse, to naked mole-rat and Ansell’s mole-rat
Dr. Angela Goncalves, DKFZ (Heidelberg, Germany)

15.10 Positive selection and mutation dynamics in normal reproductive tissue
Dr. Raheleh Rahbari, Wellcome Sanger Institute (Hinxton, UK)

15.45 – 16.15 Coffee break and poster session

16.15 Short talk 4

16.30 Short talk 5

16.45 Clonal selection in normal tissues shaped by cancer promoters
Dr. Núria López-Bigas, IRB Barcelona/ICREA (Barcelona, Spain)

17.20 End of session

Tuesday, 4 June

Session III: Clonal hematopoiesis
Chair: Dr. Rosana Risques, UW Medicine (Seattle, WA, USA)

9.00 Inherited and environmental modifiers of clonal hematopoiesis fitness
Dr. Kelly Bolton, Washington University School of Medicine (St. Louis, MO, USA)

9.35 Stem cell memories as drivers of cancer heterogeneity
Dr. Alejo Rodriguez-Fraticelli, IRB Barcelona/ICREA (Barcelona, Spain)

10.10 -10.40 Coffee break and poster session
10:40  Somatic evolution of blood during ageing and disease
Dr. Jyoti Nangalia, Wellcome Sanger Institute (Hinxton, UK)

11.15  Short talk 6

11.30  Short talk 7

11.45  Tumor-infiltrating clonal hematopoiesis in non-small cell lung cancer
Dr. Elsa Bernard, Gustave Roussy (Villejuif, France)

12:20-13.20  Lunch and poster session

Session IV: Molecular mechanisms of cancer promotion
Chair: Dr. Kamila Naxerova, Harvard University (Cambridge, MA, USA)

13.20  Environmental challenge rewires functional connections among human genes
Dr. Luke Gilbert, Arc Institute (San Francisco, CA, USA)

13.55  Mapping phenotypes and lineage history in human somatic evolution with single-cell multi-omics
Dr. Dan Landau, NY Genome Center (New York, NY, USA)

14.30  Short talk 8

14.45  Epigenetic co-option of epithelial-immune crosstalk promotes pancreatic tumorigenesis
Dr. Direna Alonso-Curbelo, IRB Barcelona (Barcelona, Spain)

15.20- 16.00  Coffee break and poster session

16.00  Somatic evolution of the hematopoietic system in health and disease
Dr. Kamila Naxerova, Harvard University (Cambridge, MA, USA)

16:35  Short talk 9

16.50  The neuronal RNA-binding protein is a master regulator of the tumor microenvironment that promotes malignant progression and immune evasion
Dr. Douglas Hanahan, EPFL (Lausanne, Switzerland)

17.25  Title to be confirmed
Dr. Samra Turajlic, The Francis Crick Institute (London, UK)

18.00  End of session

20.30  Speakers dinner (Restaurant Can Pineda) (Sant Joan de Malta, 55)
Wednesday, 5 June

Session V: Modeling cancer promotion and prevention in organoids and model Systems
Chair: Dr. Allan Balmain, UCSF (San Francisco, CA, USA)

9.00 Organoid models of the tumor immune microenvironment
Dr. Calvin Kuo, Stanford University School of Medicine (Stanford, CA, USA)

9.35 Short talk 10

9.50 Short talk 11

10.05 Metabolic disorders promote oncogenic mutant expansion in normal oesophagus
Dr. Phil Jones, Wellcome Sanger Institute (Hinxton, UK)

10.40 -11.20 Coffee break and poster session

11.20 Somatic Evolution, Cancer, and Our Inevitable Decline with Age-Inextricably Linked
Dr. James DeGregori, University of Colorado (Denver, CO, USA)

11.55 Short talk 12

12.10 Short talk 13

12.25 Keynote: Dr. Richard Peto, University of Oxford (Oxford, UK)
Title to be confirmed
Chair: Dr. Paul Brennan, IARC (Lyon, France)

13.00 Concluding remarks and end of conference