



INSTITUTE
FOR RESEARCH
IN BIOMEDICINE

Barcelona BioMed Conference

CANCER IN CONTEXT: cellular, tissue, and organismal determinants of malignant fates

27- 29 November 2023

Monday, 27 November

8.30 Registration

9.00 Welcome by Directorate of IRB Barcelona and organizers
(Dr. Direna Alonso-Curbelo and Dr. Tuomas Tammela)

Session 1: From mechanism to phenotype: emerging concepts and technologies
Chair:

9.15 **What makes a cell competent to cause cancer?**
Dr. Richard White, Ludwig Institute for Cancer Research (Oxford, UK)

9.50 **Epigenetic influence of fatty acid metabolism on metastasis: consequences
on cachexia**
Dr. Salvador Aznar Benitah, IRB Barcelona/ ICREA (Barcelona, Spain)

10.25 Short talk 1

10.40 -11.15 *Coffee break and poster session*

11.15 **Modulation of 3D chromatin structures to support tumor evolution**
Dr. Elisa Oricchio, EPFL (Lausanne, Switzerland)

11:50 Short talk 2

12.05 Short talk 3

12.20 *Title to be confirmed*

Dr. Tyler Jacks, Koch Institute for Integrative Cancer Research at MIT
(Cambridge, MA, USA)

12.55 -14.00 *Lunch and poster session*

Session 2: Evolutionary trajectories in premalignancy and cancer

Chair:

14.00 *Title to be confirmed*

Dr. Iñigo Martincorena, Wellcome Sanger Institute (Cambridge, UK)

14.35 **Neoplastic co-option of cell and tissue plasticity in pancreatic tumorigenesis**

Dr. Dìrena Alonso-Curbelo, IRB Barcelona (Barcelona, Spain)

15.10 **Evolutionary trajectories from premalignancy to cancer: lessons from the oesophagus**

Rebecca C. Fitzgerald, early Cancer Institute, University of Cambridge

15.45 - 16.15 *Coffee break and poster session*

16.15 **Life history of breast cancer and related clones**

Dr. Seishi Ogawa, Kyoto University (Kyoto, Japan)

16.50 *Title to be confirmed*

Dr. Mike Stratton, Wellcome Sanger Institute (Hinxton, UK)

17.25 *Panel Discussion/Colloquium*

18.15 *End of session*

Tuesday, 28 November

Session 3: Cellular origins and hallmarks of neoplastic identity

Chair:

9.00 **Altering chromatin accessibility - implications for development and tumourigenesis**

Dr. Alexandra Avgustinova, Institut de Recerca Sant Joan de Déu (Barcelona, Spain)

9.35 ***Title to be confirmed***
Dr. Eduard Batlle, IRB Barcelona/ICREA (Barcelona, Spain)

10.10 -10.40 ***Coffee break and poster session***

10:40 **Impact of aging on lung plasticity and tumorigenesis**
Dr. Tuomas Tammela, Memorial Sloan Kettering Cancer Center (New York, USA)

11.15 **Short talk 4**

11.30 **Short talk 5**

11.45 **EMT and cell plasticity trajectories in cancer progression**
Dr. Ángela Nieto, Institute of Neurosciences of Alicante- UMH (Elche, Alicante)

12:20-13.20 ***Lunch and poster session***

Session 4: Crosstalk within normal and malignant ecosystems
Chair:

13.20 **Resolving site-specific immune barriers to metastasis**
Dr. Ana Luisa Correia, Champalimaud Foundation (Lisboa, Portugal)

13.55 **Single-cell spatial landscapes of the lung and brain tumour immune microenvironment**
Dr. Logan Walsh, McGill University (Montreal, Quebec, Canada)

14.30 **Short talk 6**

14.45 **Organoid cellular cancer immunity models in motion**
Dr. Anne Rios, Princess Máxima Center for Pediatric Oncology (Utrecht, The Netherlands)

15.20- 16.00 ***Coffee break and poster session***

16.00 **Malignant networks in brain tumors (and how to disconnect them)**
Dr. Frank Winkler, DKFZ Heidelberg (Heidelberg, Germany)

16:35 **Short talk 7**

16.50 **Select microbial responses by intestinal epithelial cells promotes repair and cancer**
Dr. Gretchen Diehl, Memorial Sloan Kettering Cancer Center (New York, USA)

17.25 **The power of ONE: Immunology in the age of single cell genomics**
Dr. Ido Amit, Weizmann Institute of Science (Rehovot, Israel)

18.00 *End of session*

20.30 *Speakers dinner (Restaurant Can Pineda) (Sant Joan de Malta, 55)*

Wednesday, 29 November

Session 5: Challenges and opportunities for clinical translation

Chair:

9.00 *Title to be confirmed*

Dr. Luis Diaz, Memorial Sloan Kettering Cancer Center (New York, NY, USA)

9.35 *Title to be confirmed*

Dr. Samra Turajlic, The Francis Crick Institute (London, UK)

10.10 Short talk 8

10.25 Short talk 9

10.40 -11.20 *Coffee break and poster session*

11.20 **Somatic mutations in tumors and normal tissues**

Dr. Núria López-Bigas, IRB Barcelona/ ICREA (Barcelona, Spain)

11.55 Short talk 10

12.10 Short talk 11

12.25 *Title to be confirmed*

Dr. Christina Curtis, Stanford University School of Medicine (Stanford, CA, USA)

13.00 *Concluding remarks and end of conference*