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. Direna 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

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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)
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