



EUROPEAN NETWORK OF BREAST DEVELOPMENT AND CANCER LABS



12th ENBDC workshop

Methods in mammary gland biology and breast cancer April 22-23, 2021, VIRTUAL

Meeting Organizer: Alexandra Van Keymeulen (Université Libre de Bruxelles, Belgium)
Co-Organizer: Beatrice Howard (The Institute of Cancer Research, United Kingdom)

Postdoc Chairs: Elsa Charifou (Institut Pasteur, France)
Gunnhildur Traustadottir (University of Iceland, Iceland)

Thursday, April 22, 2021

- 10:00 Introduction: Chair – Alexandra Van Keymeulen (Université Libre de Bruxelles, Belgium)
- 10:05-10:50 **Keynote lecture – Nicola Aceto (ETH Zurich, Switzerland)**
“Biology and Vulnerabilities of Circulating Tumor Cells“
- 10:50-11:05 Discussion
- 11:05-11:15 Break
- 11:15 **Breast cancer metastasis Session**
Chair: Mohamed Bentires-Alj (University of Basel, Switzerland)
- 11:15-11:40 **Ilaria Malanchi (The Francis Crick Institute, London, UK)**
“How to spot early cancer-tissue interaction during metastasis“
- 11:40-11:55 Discussion
- 11:55-12:20 **Eva Gonzalez Suarez (CNIO, Spain)**
“Pleitropic role of RANK signaling in breast cancer“
- 12:20-12:35 Discussion
- 12:35-14:00 Lunch break



EUROPEAN NETWORK OF BREAST DEVELOPMENT AND CANCER LABS



- 14:05-14:20 **Short talk: Roger Gomis (IRB Barcelona, Spain)**
“Metastasis latency and bone metastasis in breast cancer”
- 14:20-14:35 Discussion
- 14:35-14:50 **Short talk: Ana Luisa Pinto Correia (University of Basel, Switzerland)**
“Revisiting NK cell immunity to prevent breast cancer metastasis”
- 14:50-15:05 Discussion
- 15:05-15:30 Break
- 15:30-17:30 **Poster Session 1**
- 17:30-18:00 Break
- 18:00-18:20 **MEET THE EXPERT: John Stingl (STEMCELL Technologies Inc, Canada)**
“Expansion of mouse mammary epithelial stem cells in serum-free organoid growth medium”
- 18:20-18:35 Discussion



EUROPEAN NETWORK OF BREAST DEVELOPMENT AND CANCER LABS



Friday, April 23, 2021

- 10:00** **Branching and development Session**
Chair: Beatrice Howard (The Institute of Cancer Research, United Kingdom)
- 10:00-10:25 **Thorarinn Gudjonsson (University of Iceland, Iceland)**
"Epithelial to mesenchymal transition in breast morphogenesis and cancer"
- 10:25-10:40 Discussion
- 10:40-11:05 **Bethan Lloyd Lewis (University of Bristol, United Kingdom)**
"4D imaging in the mammary gland; a window into breast development and disease"
- 11:05-11:20 Discussion
- 11:20-11:30 **Break**
- 11:30-11:45 **Short talk: Satu-Marja Myllymäki (HiLIFE, Institute of Biotechnology, Helsinki)**
"From cells to branches – Insights into mammary branch formation"
- 11:45-12:00 Discussion
- 12:00-12:15 **Short talk: Zuzana Koledova (Masaryk University, Czech Republic)**
"Mammary fibroblasts are mechanical actuators of mammary epithelial morphogenesis"
- 12:15-12:30 Discussion
- 12:30-13:30 Lunch break
- 13:30-15:30 **Poster Session 2**
- 15:30-16:00 Break
- 16:00 **Tumor microenvironment Session**
Post-doc Chairs: Elsa Charifou and Gunnhildur Traustadottir
- 16:00-16:05 **Intro by the Chairs**
- 16:05-16:20 **Short talk: Ginevra Doglioni (VIB-KULeuven, Belgium)**
"The primary tumor secretome alters the metabolic microenvironment of the pre-metastatic niche and promotes metastasis formation"
- 16:20-16:35 Discussion



EUROPEAN NETWORK OF BREAST DEVELOPMENT AND CANCER LABS



- 16:35-17:00** **Jayakumar Vadakekolathu (Nottingham trent University, United Kingdom)**
"Identifying drivers of breast cancer metastasis by experimental modelling of epithelial to mesenchymal transition (EMT) and bioinformatic interrogation of public datasets"
- 17:00-17:15 Discussion
- 17:15-17:40** **Ingunn Holen (The University of Sheffield, United Kingdom)**
"Role of the bone microenvironment of breast tumour growth and response to therapy - what have we learnt from in vivo models?"
- 17:40-17:55 Discussion
- 17:55 DeOme award and 3 poster prizes
Concluding remarks