



EUROPEAN NETWORK OF BREAST
DEVELOPMENT AND CANCER LABS

15th ENBDC workshop

Methods in mammary gland biology and breast cancer

May 01-04, 2024, Weggis, Switzerland

Meeting Organizers

Chair: **Silvia Fre**

Co-chair: **Walid Khaled**

Postdoc chair: **Maria Rafeeva**

PhD chairs: **Beata Kaczynska and Jaime Redondo**



Wednesday, May 1, 2024

Early Career Workshop Part 1
organized by Postdoc and PhD chairs

12:00-14:00 check-in at the hotel and lunch

14:00-15:15 ECR Scientific session 1

Scientific session with 25 min presentation & discussion per speaker based on the selected abstracts

- **Anthony Wilby:** "A novel pre-clinical model of the normal human breast"
- **Leena Koskinen:** "Spatial engineering of mammary epithelial cell cultures with 3D bioprinting reveals growth control by branch point proximity"
- **Kamyab Saberiseyedabad:** "Dynamic modeling and spatial mapping of the healthy human breast"

15:15-15:45 Coffee break

15:45-17:00 ECR Scientific session 2

Scientific session with 25 min presentation & discussion per speaker based on the selected abstracts

- **Jiaoqi Cheng:** "Investigating human breast tissue heterogeneity through multiplex imaging and artificial intelligence"
- **Candice Merle:** "Barcode-based lineage tracing to track breast cancer clonal evolution"
- **Marika Caruso:** "Dynamic organoid models of mammary gland remodelling to study the effect of estrus cycle, pregnancy and involution on pre-oncogenic cells"

17:15-18:30 Outside social event

18:30 Dinner

20:00 Games evening

Thursday, May 02, 2024

Early Career Workshop Part 2
organized by Postdoc and PhD chairs

07:30-09:00 Breakfast (*and poster hanging*)

09:00-10:00 Technical workshop:

"From methods to research discoveries: how we can perform insightful experiments?"
(discussion mediated by the ECR chairs)

Johanna Englund (*Group Leader, University of Helsinki*)

10:00-10:45 Career workshop:

Presentations of speakers from academic, industrial and editorial roles (15 min per person).

- **Zoi Diamantopoulou** (*Group Leader & Senior Lecturer at Beatson Institute, Glasgow, UK*)
- **Daniel Lafkas** (*Principal Scientist at Roche, Basel, Switzerland*)
- **Emily Marcinkevicius** (*Editor at Cell Reports Methods, Cambridge, USA*)

10:45-11:15 Coffee break

11:15-12:00 **Panel discussion** with the speakers "Being a PhD, being a Postdoc — how you can boost your career and personal development" (mediated by the ECR chairs)



Thursday, May 02, 2024.

Start of the normal program

- 12:00-13:50 *check-in at the hotel and lunch (and poster hanging)*
- 14:00 Introduction: Chair – **Silvia Fre**
- 14:05-14:20 Short talk 1: Jakub Sumbal** (Institut Curie, Paris & Masaryk University, Brno)
“Contractile fibroblasts are recruited to growing mammary epithelium to support branching morphogenesis”
- 14:20-14:25 Discussion
- 14:25-14:40 Short talk 2: Emilia Peuhu** (University of Turku)
“Molecular profiling of neoductgenesis in early stage breast cancer for the development of novel diagnostic biomarkers”
- 14:40-14:45 Discussion
- 14:45-16:05 Session 1: Mechanisms dictating normal mammary development**
Chair: Silvia Fre
- 14:45-15:10 Johanna Englund (University of Helsinki, Finland)**
“Tumor-derived extracellular matrix regulates cancer initiation and identity”
- 15:10-15:25 Discussion
- 15:25-15:50 Salah Elias (University of Southampton, United Kingdom)**
“Oriented cell divisions and fate decisions in the mammary epithelium”
- 15:50-16:05 Discussion
- 16:05-16:50 ***Break (and Poster hanging)***
- 16:50-17:05 Short talk 3: Jaime Redondo Pedraza** (CNIO, Madrid)
“Disruption of basal cell identity by Rank signaling drives mammary tumorigenesis”
- 17:05-17:10 Discussion
- 17:10-17:25 Emily Marcinkevicius (Editor at Cell Reports Methods, Cambridge, USA)**
“A guide to scientific publishing with Cell Press”
- 17:25-17:30 Discussion
- 17:30-17:45 Joana Paredes (Institute for Research and Innovation in Health, University of Porto)**
“The impact of cancer cell’s secretome on breast cancer brain metastasis”
- 17:50-17:55 TBC**
- 18:00-20:00 ***Apéro and Dinner***
- 20:00-22:00 Poster Session 1 – Even numbers**



Friday, May 03, 2024

07:30- 09:00 **Breakfast**

09:00-9:40 **Keynote lecture – Jacco Van Rheenen**
(Netherlands Cancer Institute, Amsterdam, The Netherlands)
“Filming the fate of cells that carry mutations in cancer driver genes”

9:40-9:55 Discussion

10:00-12:20 **Session 2: Breast cancer clonal evolution and metastasis**
Chair: Walid Khaled

10:00-10:25 **Angela Nieto (Instituto de Neurociencias (CSIC-UMH) Alicante, Spain)**
“Cell plasticity trajectories in breast cancer evolution”

10:25-10:40 Discussion

10:40-11:00 **Break**

11:00-11:25 **Zoi Diamantopoulou (Beatson Institute, Glasgow, UK)**
“Diving deeper into metastasis: Analysing Circulating Tumour Cells”

11:25-11:40 Discussion

11:40-12:05 **Alecia-Jane Twigger (University of Cambridge, UK)**
“Determining the molecular underpinnings of patient treatment response for triple negative breast cancer”

12:05-12:20 Discussion

12:30-13:30 **Lunch**

13:30(tbc) Departure - Afternoon Trip to Rigi or other social outing/hike

18:00 **Dinner**

19:00-21:00 **Poster Session 2 – Odd numbers**

21:00 Party
(Optional: removal of posters)



Saturday, May 04, 2024

07:30-09:00 Breakfast, check out and removal of posters

09:00-12:00 Session3: Epigenetics and metabolic regulation of breast cancer

Chair: Momo Bentires-Alj

09:00-09:15 Short talk 4: Marisa Martin Faraldo (Institut Curie, Paris)

"Alpha-6 integrin deletion delays the formation of Brca1-deficient basal-like breast tumors by restricting luminal progenitor cell expansion"

09:15-09:20 Discussion

09:20-09:35 Short Talk 5: Sven Rottenberg (University of Bern)

"The study of residual disease in BRCA1; p53-deficient mouse mammary tumors"

09:35-09:40 Discussion

09:40-10:05 Sara Sdelci (Centre for Genomic Regulation, Barcelona, Spain)

"The interplay between histone lactylation and LDHB nuclear localization defines breast cancer aggressiveness"

10:05-10:20 Discussion

10:20-10:50 **Break**

10:50-11:15 Elisabetta Marangoni (Institut Curie, Paris, France)

"Targeting oxidative phosphorylation in treatment-resistant metastatic breast cancer"

11:15-11:30 Discussion

11:30-11:45 General Discussion

11:45-12:00 Best Short Talk DeOme Prize and 4 Best Poster Prizes Ceremony

12:00 **Lunch (optional) and Departure**