16th ENBDC workshop

Methods in mammary gland biology and breast cancer

April 24-26, 2025, Weggis, Switzerland

Meeting Organizers

Chair: **Walid Khaled**

Co-chair: **Therese Sorlie**

Postdoc Chair: **Camila Veludo**
PhD Chair: **Marika Caruso and Adam Spruce**

Wednesday, April 23, 2025.

Students workshop organized by Postdoc and PhD chairs.

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

14:30-14:45 ECR Introduction

14:45-15:30 Round table discussion #1: Mammary gland Imaging – **Dr Felicity Davis**

15:30-16:00 Coffee break

16:00-17:15 ECR talks session 1

Oona Paavolainen - Vimentin is essential for the stable maintenance of basal mammary epithelial cell identity and ductal outgrowth during mammary gland development
Laurianne Temime - Epithelial cell identity regulation in mammary gland development
Anna Lena de Souze - Development of Advanced In Vitro Models for High-Throughput Drug Screening to Combat Therapy Resistance in Breast Cancer Metastasis

17:15-18:30 PhD/PD outdoor social activity

18:30 Dinner

20:00 PhD/PD retreat social event: games evening

Thursday, April 24, 2025.

Morning Postdoc and PhD program.

07:30-09:00 Breakfast (and Poster hanging- odd & even)

09:00-10:00 ECR talks session 2

Juliane Heilig - CaTCHing barcoded TNBC clones from heterogenous lung metastasis in a cigarette smoke-evoked environment
Anna Mullaney - Unravelling the Molecular Mechanisms of Human Milk Production through Executable Models

10:00-10:45 Roundtable discussion #2: Computational Pathology – **Dr Xinsong Cheng**

10:45-11:00 Coffee break

11:00-11:45 Roundtable discussion #3: In Vivo CRISPR Screening – **Dr Daniel Schramek**

11:45- 12:30 Meditation group (optional but mandatory sign up)

Thursday, April 24, 2025

Start of workshop

12:00 check-in at the hotel and lunch

14:00 **Introduction: Chair – Walid T. Khaled**

14:05-14:45 Keynote lecture: Prof. Cédric Blanpain, Université Libre de Bruxelles (ULB), BE

"Identifying the mechanisms promoting stem cell plasticity during the early steps breast cancer initiation"

14:45-15:00 Discussion

15:00-17:30 Session 1: What to do with a problem like heterogeneity?
Chair: Walid T. Khaled

15:00-15:15 **Short Talk 1 - Marta Ciwinska,** VIB-KU Leuven Center for Cancer Biology, BE
"Dynamic and heterotypic mutant-wild type cell interactions dictate tumor initiation dynamics"

15:15-15:20 Discussion

15:20-15:45 **Speaker 1 - Dr. Juliane Winkler,** Center for Cancer Research, Medical University of Vienna, AU

"Dissecting tumor and immune heterogeneity in breast cancer metastasis"

15:45-16:00 Discussion

16:00-16:30 Break (and Poster hanging- odd & even)

16:30-16:45 **Short talk 2 - Jiaoqi Cheng,** University of Southampton, UK
"CenSegNet: A Versatile and High-Precision Automated Deep Learning Pipeline for Robust Centrosome Segmentation Across Diverse Epithelial Tissues"

16:45-16:50 Discussion

16:50-17:15 **Speaker 2 – Dr. Xinsong Cheng,** Department of Oncology-Pathology, Karolinska Institute, SE

"Joint Analysis of Breast Cancer Heterogeneity Using Spatial Transcriptomics and Computational Pathology"

17:15-17:30 Discussion

17:30- 18:00 free time and poster hanging (odd & even)

18:00-19:30 Apéro & Dinner

20:00- 22:00 Poster Session 1 – Odd numbers present

Friday, April 25, 2025

07:30- 09:00 Breakfast

09:00-12:00 Session 2: The mouse is dead long live the mouse! Chair: Therese Sorlie

09:00-09:25 **Speaker 3 - Prof. Daniel Schramek**, Lunenfeld-Tanenbaum Research Institute, University of Toronto, CA
"In vivo veritas – developing novel CRISPR technologies to unravel coding, non-coding & CNA breast cancer driver alterations as well as vulnerabilities in mice"

09:25-09:40 Discussion

09:40-09:55 **Short talk 3 - Aurélie Chiche,** Institut Pasteur, Paris, FR
"Induction of Senescence During Postpartum Mammary Gland Involution supports tissue remodeling and promotes postpartum tumorigenesis"

09:55-10:00 Discussion

10:00-10:15 **Short talk 4 - Linsey Porter,** University of Cambridge, UK
"Accelerated ageing and unresolved cellular senescence promotes tumour initiation in BRCA driven breast cancers"

10:15-10:20 Discussion

10:20-11:00 Coffee Break

11:00-11:15 **Short talk 5 - Ioanna Keklikoglou,** University of Crete, GR
"ROCK-Myosin II drives Paclitaxel Resistance and Extracellular Vesicle release in metastatic Triple Negative Breast Cancer"

11:15-11:20 Discussion

11:20-11:45 **Speaker 4 - Toni Celia-Terrassa,** Hospital del Mar Research Institute, Barcelona, SP
"Specific immune-evasive tumor phenotypes of breast cancer micrometastasis."

11:45-12:00 Discussion

12:00-13:30 Lunch

14:00 Afternoon social outing/hike

18:00 Dinner

19:00 **Poster Session 2 – Even numbers present**

21:00 Social event

Saturday, April 26, 2025

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

09:00-11:45 Session 3: The answer is 42! **Chair:** Colinda Scheele

09:00-09:15 **Short Talk 7 - Charly Jehanno,** University Hospital Basel, CH
"Activated Glucocorticoid Receptor is an Estrogen Receptor Silencer in ER+ metastatic breast cancer"

09:15-09:20 Discussion

09:20-09:45 Speaker 5 – Dr. Vincent Guen, Health Research Institute, University of Nantes, FR

"A spatially resolved single-cell atlas of the breast across the reproductive cycle reveals immune features of epithelial remodeling."

09:45-10:00 Discussion

10:00-10:40 **Break, group picture and check out**

10:40-11:05 Speaker 6 – Felicity Davis, Aarhus University, DK

"Roles for intracellular calcium signalling in lactation"

11:05-11:20 Discussion

11:20-11:35 General Discussion

11:35-11:45 **DeOme and Poster Prizes Ceremony**

11:45 End of the Workshop

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