

# PROGRAM

## Workshop – 3<sup>rd</sup> Preclinical and Personalized Breast Cancer Research

October 10<sup>th</sup>-12<sup>th</sup>, 2022

(conference room SV.3.207, SV building 3<sup>rd</sup> floor)

### DAY 1 - Monday 10 October 2022

8.00 - 9.00 Breakfast at the hotel

#### Morning Session Day 1 (9.00 – 12.00)

9.00 - 9.15 **Welcome and Introductory Remarks**

*Cathrin Brisken, EPFL*

09.15– 09.50 **Introduction to the intraductal injection methodology**

*George Sflomos, EPFL & Andrea Agnoletto, EPFL*

09.50 – 10.30 **Do the new therapies challenge the breast cancer subtypes classification?**

*Khalil Zaman, Breast Center, Lausanne University Hospital (CHUV)*

10.30 – 11.00 Coffee & Tea Break

11.00 – 12.00 **Mouse-INtraDuctal (MIND): an in vivo model for studying the underlying mechanisms of DCIS malignancy**

*Fariba Behbod, University of Kansas, US*

12.00 – 13.00 Lunch Break

#### Afternoon session Day 1 (13.00 – 21.00)

13.00 – 18.30 **Practical class I: MIND injections and follow up (IVIS, pellet implantation, and ovariectomy surgical procedure)**

*Hazel M. Quinn, EPFL, Laura Battista, EPFL, Daria Matvienko, EPFL*

18.30 **General Discussion**

19.00- 21.00 **Buffet dinner + Participants' Group 1 presentations (5 minutes presentation + 5 minutes discussion)**

### DAY 2 - Tuesday 11 October 2022

8.00 - 9.00 Breakfast at the hotel

#### Morning Session Day 2 (9.00 – 12.00)

9.00 – 9.45 **Endocrine Control of Mammary Gland Development: mind the biological context**

*Cathrin Brisken, EPFL*

9.45 – 10.30 **Clinical Scoring System for PDX Bearing Animals**

*Julia Schueler, Charles River Discovery Research-Freiburg*

10.30 – 11.00 Coffee & Tea Break

11.00 – 12.00 **Studying Genetic Mechanisms in Breast Carcinogenesis Using The Intraductal Model**  
*Richard Iggo University of Bordeaux, France*

12.00 – 13.00 Lunch Break

### Afternoon session Day 2 (13.00 – 21.00)

13.00 – 18.30 **Practical class II: Tissue harvesting and tumor cell retrieval, hormone pellet preparation**  
*George Sflomos, EPFL, Yueyun Zhang, EPFL, Andrea Agnoletto, EPFL*

18.30 **General Discussion**

19.00 – 21.00 **Buffet dinner + Participants' Group 2 presentations  
(5 minutes presentation + 5 minutes discussion)**

## DAY 3 - Wednesday 12 October 2022

8.00 - 9.00 Breakfast at the hotel

### Morning Session Day 3 (9.00 – 12.00)

9.00 - 9.30 **Histopathology of the human breast and the mouse mammary gland**  
*Maryse Fiche, ICPI, Lausanne*

9.30 - 10.30 **Practical class III: Tissue Analysis (Whole Mounts, Histology)**  
*Maryse Fiche, ICPI, George Sflomos, EPFL, Ayyanan Ayyakkannu, EPFL*

10.30 – 11.00 Coffee & Tea Break

11.00 – 12.00 **Practical class III: Tissue Analysis (Whole Mounts, Histology)**  
*Maryse Fiche, ICPI, George Sflomos, EPFL, Ayyanan Ayyakkannu, EPFL*

12.00 – 13.15 Lunch Break

### Afternoon session Day 3 (13.15 – 21.00)

13.15 – 14:15 **Intraductal xenografts of estrogen receptor-positive breast cancer model dormancy**  
*Patrick Aouad, Jules Gonin Eye Hospital, UNIL*

14.15 – 14.45 **Scoresheet and interruptions criteria**  
*Isabelle Desbaillets, Head of the Animal Welfare Office Bern*

14.45 – 15.15 **Deep Learning Enables Individual Xenograft Cell Classification in Histological Images by Analysis of Contextual Features**  
*Quentin Juppé, Lunaphore Technologies, Lausanne*

15.15 – 15.45 **Analyzing in vivo growth measures over time: getting insights and answers from data**  
*Carlos Henrique Venturi Ronchi, EPFL*

15.45 – 16.15 **The Breast Cancer Epigenomics Track Hub**  
*Giovanna Ambrosini, EPFL*

16.15 **Questionnaire/Evaluation**

19.00- 21.00 **Dinner at Débarcadère, Commune de St-Sulpice**