

# Workshop in Preclinical Models for Translational Cancer Research

Dates: 21-22 October 2019

Location: Esteve auditorium, IDIBAPS-Centre Esther Koplowitz. Barcelona

Organizers: Elena Sancho, José Angel Martínez-Climent, Cristina Bernadó and Patricia Pérez-Galán from CIBERONC -Experimental Models Work Module

## Preliminary program

### Day 1

9:00 Welcome from CIBERONC director and introduction by WM coordinator

### Organoids

9:15 CRC organoids from human biopsies (Carme Cortina -E. Battle group)

9:45 Breast cancer organoids (Enrique Arenas - J. Arribas group)

10:15 Lung cancer organoids (Silvestre Vicent - L. Montuenga group)

10:45 Invited speaker: Patient-Derived Organoids for Drug Screening & Development, and Patient Stratification (Dr. Sylvia Boj, Scientific Director Hubrecht Organoid Technology (HUB), Utrecht, Netherlands)

*Coffee break 11:15-11:45*

### Humanized –PDX

11:45 Novel Hu-PDX for immunotherapy development (Miguel F. de Sanmamed - I. Melero group)

12:15 Hu-PDX in lung cancer (Irene Ferrer -L. Paz-Ares Group)

12:45 Hu-PDX in breast cancer (Beatriz Morancho - J. Arribas group)

13:15 Hu-PDX in hematological malignancies (Pablo Menéndez - A. Bigas group)

*Lunch break (buffet) 14:00-15:00*

## **Transgenic mice**

15:00 CRC tg mice and derived organoids (Elena Sancho - E. Battle group)

15:30 Breast cancer tg mice (Gema Moreno -A. Cano group)

16:00 Invited speaker: How to build human hematological malignancies in a mouse  
(Isidro Sánchez Garcia, Centro de Investigación del Cancer)

16:30 Questions & Answers?

## **Day 2**

### **Keynote lecture**

9:00-9:45 Targeting K-RAS in Lung and Pancreatic Cancer. Mariano Barbacid (CNIO)

### **Organoids' practicum**

9:45-10:15 Experimental challenges, troubleshooting and critical steps in organoid generation  
(Carme Cortina, E. Battle group).

10:15-10:45 Advanced microscopy techniques for organoid characterization (Julien Collombelli, IRB imaging facility)

*10:45-11:15 coffee break*

### **Animal model's practicum**

11:15-11:45 How to build an experimental protocol with animal models: ethical questions, breeding, genotyping, cryopreservation (Maria Jose Garcia Barchino-JA Martinez Climent group-F Proper)

11:45-12:15 Imaging techniques for disease follow up and efficacy of therapies (Sergio Roa-JA Martínez Climent group-F Prosper)

### **How to choose the right experimental model**

12:30-13:00. Experimental set up 1- Elena Sancho & Adrià Canyellas

13:00-13:30. Experimental set up 2- Jose Angel Martínez Climent & Sergio Roa

13:30 Concluding remarks and adjourn (P. Pérez-Galán)