

## 1st TME Lab Retreat PROGRAM

27-28 June 2024

### Thursday, June 27

- **11:00 — 11:45: Reception**
- **11:45 — 12:00: Welcome talk.** Ignacio Ochoa

### 12:00 — 14:30: SESSION I: MUSCLE TISSUE AND EPITHELIUM

**Organize and moderate:** Ignacio Ochoa, Estela Solanas & Jesús Ciriza

#### Sessions:

- **12:00 — 12:30:** *Probonewfood: Optimization of muscle on chip models for meat or human disease models.*  
**Speaker:** Ana Rosa Remacha & Hector Castro  
**Responsible:** Ignacio Ochoa  
**Related projects:** BURGER
- **12:30 — 13:00:** *Endothelialized heart-on-chip for assessment of RNAi therapies delivery methods*  
**Speakers:** Laura Paz  
**Responsible:** Jesús Ciriza  
**Related projects:** ISCOC
- **13:00 — 13:30** *An advanced 3D in vitro Intestine-on-chip model to replicate the intestinal mucosa of pigs*  
**Speaker:** Rut López  
**Responsible:** Estela Solanas  
**Related projects:** GUT, PORCISOST
- **13:30 —14:00:** *Aging skin on chip model for innovative dermal infection treatment*  
**Speaker:** Estibaliz Fernández  
**Responsible:** Jesús Ciriza  
**Related projects:** NEXT\_SKIN, SKIN
- **14:00 —14:30:** Round table moderated by Ignacio Ochoa, Jesús Ciriza & Estela Solanas
- **14:30 —16:00:** Comida

**16:00 — 20:00: SESSION II: MICROFLUIDIC TECHNOLOGIES**

**Organize and moderate:** Sara Olivan, Ignacio Ochoa & Teodora Randelovic

**Sessions:**

- **16:00 — 16:30:** *Minimizing inert materials within microfluidic devices*  
**Speaker:** Claudia Olaizola  
**Responsible:** Sara Oliván  
**Related projects:** THE\_MESH, THE\_HOLE, AD
- **16:30 — 17:00:** *Computational simulations as a tool for microfluidic design*  
**Speakers:** Mehran Ashrafi  
**Responsible:** Manuel Doblaré  
**Related projects:** PRIME, THE\_MESH, THE\_HOLE, AD
- **17:00 — 17:30:** *Integrating physicochemical gradients and interstitial flow dynamics in tumor-on-a-chip models*  
**Speaker:** Teodora Randelovic  
**Responsible:** Ignacio Ochoa  
**Related projects:** ENDOT
- **17:30 — 18:00:** Break
- **18:00 — 18:30:** *Collagen membranes for more biomimetic OOC models*  
**Speaker:** Inés Mármol  
**Responsible:** Sara Oliván  
**Related projects:** HOLA\_MI\_BBB
- **18:30 — 19:00:** *VEssel on a chip to resemble vascular stenosis*  
**Speaker:** Alodia Lacueva  
**Responsible:** Sara Oliván  
**Related projects:**
- **19:30 — 20:00:** Round table moderated by Sara Olivan, Rosa Monge, Teodora Randelovic & Ignacio Ochoa
- **20:00 onwards:** dinner & drinks

## Friday, June 28

8:00-9:00: Breakfast

### 9:00—13:00: SESSION III: CANCER

**Organize and moderate:** Manuel Doblaré, Ignacio Ochoa y Estela Solanas

#### Sessions:

- **09:00 — 09:30:** *Developing advanced 3D in vitro models for the study of breast cancer metastasis*

**Speaker:** Vira Sharko

**Responsible:** Estela Solanas

**Related projects:** M4M

- **09:30 — 10:00:** *Study of glioblastoma tumours and their immune treatment by the generation of spheroids*

**Speaker:** Ismael Perisé

**Responsible:** Ignacio Ochoa

**Related projects:** GBM\_IMMUNE

- **10:00 — 10:30:** *Agent-Based Models for simulation of biological phenomena*

**Speaker:** Raquel Arroyo

**Responsible:** Manuel Doblaré

**Related projects:** GBM\_IMMUNE, DIAMOOC

- **10:30 — 11:00:** Coffee break

- **11:00 — 11:30:** *Tumour microenvironment as a modulator of glioblastoma evolution in an organ-on-chip model*

**Speaker:** Clara Bayona

**Responsible:** Ignacio Ochoa

**Related projects:** GBM\_IMMUNE

- **11:30 — 12:00:** *Translating Biology into Mathematics: Cellular Adaptation Models in Glioblastoma.*

**Speaker:** Jacobo Ayensa Jiménez

**Responsible:** Manuel Doblaré

**Related projects:** BIOSIM

- **12:00-12:30** Round table moderated by Manuel Doblaré, Ignacio Ochoa & Estela Solanas

**12:30—14:00 SESSION IV: ASSISTED REPRODUCTION**

**Organize and moderate:** Clara Malo & Jacobo Ayensa

- **12:30 — 13:00:** *First step for recreating follicular environment in vitro for oocyte maturation: granulosa cells*

**Speaker:** Marta Gargallo

**Responsible:** Clara Malo

**Related projects:** HIVOMOC, FROZEN

- **13:00 — 13:30:** *Artificial Intelligence to ensure success in IVF*

**Speaker:** María Villota

**Responsible:** Manuel Doblaré

**Related projects:** FERTILE

- **13:30 — 14:00:** Round table moderated by Manuel Doblaré, Clara Malo & Jesús Ciriza

- **14:00 - CLOSURE**

