

## Regenerative Medicine: organoids and model species

October 8<sup>th</sup>-9<sup>th</sup>, 2018

Auditorium Biopark  
11, rue Watt  
Paris 13<sup>e</sup>, France

### OCTOBER 8<sup>TH</sup>

- ▶ 9 :30am - 9 :45am **Introduction**  
**Thierry GALLI**, Director of ITMO Cell biology, development and evolution,  
**Franck LETHIMONNIER**, Director of ITMO Health Technologies

**Session 1: « Nervous system development and regeneration »**  
 Chairpersons: Bertrand PAIN & Jean-Luc GALZI

- ▶ 9 :45am – 10 :20am **Keynote lecture - Orly REINER**, Weizmann Institute, Israel  
 « Using human brain organoids on a chip to model development and disease »

- ▶ 10 :20am – 10 :50am **Caterina BRITO**, iBET, Portugal  
 « Exploiting 3D cell cultures to model disease microenvironment »

- ▶ 10 :50am – 11 :20am **Olivier GOUREAU**, Institut de la Vision, Paris, France  
 « Retinal organoids from pluripotent stem cells: from development to disease »

- ▶ 11 :20am – 11 :50am **Muriel PERRON**, Neuro-PSI, Paris, France  
 « Regeneration of the retina from Müller glial cells »

- ▶ 11 :50am – 12 :00am **Selected short talk**

- ▶ 12 :00am – 12 :10am **Selected short talk**

- ▶ 12 :15am – 2 :15pm **Lunch and poster session**

**Session 2: « Study of organ and tissue development in organoids »**  
 Chairpersons: Joelle AMEDEE & Jean-Luc GALZI

- ▶ 2 :15pm – 2 :45pm **David HAY**, CRM, Edinburg, United Kingdom  
 « Producing self organizing human liver spheres from pluripotent stem cells »

- ▶ 2 :45pm – 3 :15pm **Xavier GIDROL**, BIG, Grenoble, France  
 « Organoid-based functional genomics screening in development and carcinogenesis »

- ▶ 3 :15pm – 3 :45pm **Gérard GRADWOHL**, IGBMC, Strasbourg, France  
 « Human pluripotent stem cell derived intestinal organoids to study cell fate and monogenic Diseases »
- ▶ 3 :45pm – 3 :55pm **Selected short talk**
- ▶ 3 :55pm – 4 :05pm **Selected short talk**
- ▶ 4 :05pm – 4 :30pm **Coffee break**
- Session 3: « In vivo models of regeneration »**  
Chairpersons: Michel VERVOORT & Bertrand PAIN
- ▶ 4 :30pm – 4 :40pm **Selected short talk**
- ▶ 4 :40pm – 4 :50pm **Selected short talk**
- ▶ 4 :50pm – 5 :20pm **Eric ROTTINGER**, IRCAN, Nice, France  
 « Regeneration is a partial redeployment of the embryonic gene regulatory network »
- ▶ 5 :20pm – 5 :50pm **Uwe STRAEHLE**, KIT, Karlsruhe, Germany  
 « Development and regeneration of the nervous system using the zebrafish as model »
- ▶ 5 :50pm – 6 :20pm **Yuval RINKEVICH**, iLBD, Munich, Germany  
 « A cell lineage perspective on scar tissue development and diversity »

## OCTOBER 9<sup>TH</sup>

### Session 4: Round table, perspectives and ethics

Chairpersons: Joelle AMEDEE, Jean Luc GALZI, Bertrand PAIN & Michel VERVOORT

- ▶ 9 :00am – 9 :30am **Synthesis of Erdyn study, state of the art in France, in EU and in the world**
- ▶ 9 :30am – 10 :00am **Clinical applications of organoids**
- ▶ 10 :00am – 10 :30am **Ethics and reglementation**
- ▶ 10 :30am – 11 :00am **Proposal of the International Organoid Challenge (InOC)**
- ▶ 11 :00 am – 12 :00am **General discussion - Round table**