

# Inaugural Symposium of the Sorbonne Université Stem Cells and Regenerative Medicine Network

December 13, 2022

9h00-9h15 : Symposium opening, **Elisabeth Angel-Perez** (Vice-Présidente Recherche et Innovation de Sorbonne Université).

Presentation of the « Stem Cell Biology and Regenerative Medicine » network, **Charles Durand**.

## Session I. Stem Cell Biology

*Chairs : Emmanuelle Huillard and Stephane Nedelec*

9h15-9h35 : **Fiona Francis** (Institut du Fer à Moulin). *Perturbed neural progenitor mechanisms leading to cortical malformations.*

9h35-9h55 : **Pierre Joanne** (Institut de Biologie Paris-Seine). *Pluripotent stem cells derived-cardiomyocytes and biomaterials: a delicate partnership.*

9h55-10h15 : **Gwenvael Le Dréau** (Institut de la Vision). *Lineage-dependent construction of the cerebral cortex: from cortical neural stem cells to microcircuits of clonally-related pyramidal neurons.*

10h15-10h35: **Jason Cosgrove** (Institut Curie). *Engineering hematopoietic stem and progenitor fate decisions with metabolism.*

10h35-10h55 : **Mathieu Hautefeuille** (Institut de Biologie Paris-Seine). *Control of viscoelastic properties inside microfluidic chips for controlled stem cell culture and differentiation.*

*Coffee break*

## Session II. Stem Cells and Humanities

*Chair : Anouk Barberousse*

11h15-11h40 : **Hervé Chneiweiss** (Institut de Biologie Paris-Seine). *Remaining ethical issues in stem cell research.*

11h40-12h15 : Round-table moderated by **Anouk Barberousse** (Faculté des Lettres SU) with **Hervé Chneiweiss**, **Jean-Cassien Billier** (Faculté des Lettres SU) and **Cédric Paternotte** (Faculté des Lettres SU).

Lunch

### Session III. Stem Cells and Pathologies

*Chairs : Muriel Vayssade and Onnik Agbulut*

14h00-14h20 : **François Delhommeau** (Centre de Recherche Saint-Antoine). *Hematopoietic stem cells in the initiation and evolution of acute myeloid leukemia.*

14h20-14h40 : **Delphine Bohl** (Institut du Cerveau). *Human induced pluripotent stem cells to model Amyotrophic Lateral Sclerosis.*

14h40-15h00 : **Mona Bensalah** (Institut de Myologie). *Deciphering the nature and role of interstitial non-myogenic cells in fibrotic and dystrophic human muscles.*

15h00-15h20 : **Benjamin Galet** (Institut du Cerveau). *Lineage-specific molecular profiling in organoid models of Alzheimer's disease.*

15h20-15h40 : **Sophie Tran** (Institut de la Vision). *Innovative gene therapy for RDH12-related Leber Congenital amaurosis: setting up an in vitro model.*

Coffee break

### Session IV. Stem Cells and Therapeutics

*Chairs : Vincent Mouly and Olivier Goureau*

16h00-16h20 : **Cécile Legallais** (Université de Technologie de Compiègne). *Mechanical environment's design and stem cells' response for tissue engineering: application to the musculo-skeletal system.*

16h20-16h40 : **Florent Malard** (Centre de Recherche Saint-Antoine). *Immune reconstitution after allogeneic hematopoietic cell transplantation.*

16h40-17h00 : **Aline Stedman** (Institut de Biologie Paris-Seine). *Using mouse and human spinal organoids to address the role of primary cilia in neural progenitors fate.*

17h00-17h20 : **Laurence Guyonneau-Harmand** (Centre de Recherche Saint-Antoine). *Engineered red blood cells.*

17h20-17h40 : **Marisa Cappella** (Institut de Myologie). *AAV-mediated expression of antisense oligonucleotides for the treatment of C9ORF72-fALS.*

**17h40-17h55 Conclusion**