

COLLOQUE

Spotlight on Stem Cells Modeling diseases with hiPS Cells

N°CLO5

8 h 20 Welcome

8 h 50 Introduction

9 h 00 Keynote lecture (30' talk & 10' questions)

Sebastian Illes, The Sahlgrenska Academy at the University of Gothenburg, Sweden: "Physiological and pathophysiological oscillatory activity in human iPSC 3D neural *in vitro* models".

9 h 40 Communication selected from abstracts (10' talk & 2' questions)

Estrella Passerat de la Chapelle, CRCNI²A, Nantes: "An organ-on-chip model to study the effects of ionizing radiation on the human blood-brain barrier".

9 h 55 Communication selected from abstracts (10' talk & 2' questions)

Gaëlle Friocourt, UMR1078, Brest: "Identification of novel pharmacological inhibitors of CBS, an enzyme whose overexpression contributes to intellectual disability in Down syndrome".

10 h 10 Pause and Poster session

10 h 50 Keynote lecture (30' talk & 10' questions)

Antoine Zalc, Institut Cochin, Paris: "Molecular regulations of cell plasticity during neural crest development".

11 h 30 Communication selected from abstracts (10' talk & 2' questions)

Lola Bonneau, TENS, Nantes: "Neuronal regulation of human digestive tract development during embryogenesis".

11 h 45 **A STEP ASIDE: What's N.U?** **Nicolas Mangold**, Nantes University: "From geology to astrobiology on Mars thanks to the data from the Perseverance rover".

12 h 00 Lunch break, and Poster session (from 13h00)

13 h 50 Invited communication (20' talk & 5' questions)

Clara Steichen, Poitiers University: "The potential of stem cells to model or control ischemia reperfusion lesions in renal transplantation".

14 h 15 Communication selected from abstracts (10' talk & 2' questions)

Salam Idriss, Institut du Thorax, Nantes: "Characterization of new polycythemia mutations located in the Erythropoietin gene : Insights from iPSC-Derived EPO Producing Cells".

14 h 30 Communication selected from abstracts (10' talk & 2' questions)

Thomas Stervinou, Institut du Thorax, Nantes: "Brugada Syndrome-associated Transcriptomic Remodeling Occurs Throughout *in vitro* Cardiac Development".

14 h 45 Invited communication (20' talk & 5' questions)

Marco Bruschi, Institut de Cancérologie Gustave Roussy: "Modeling the Interaction between the Microenvironment and Tumor Cells in Brain Tumors".

15 h 10 Communication selected from abstracts (10' talk & 2' questions)

Allwyn Pereira, TaRGeT, Nantes: "Scalable generation of iPSC derived tissue resident macrophages to model immune responses in organoids".

15 h 25 Pause and Poster session

16 h 10 Invited communication (20' talk & 5' questions)

Guillaume Blin, Institute for Regeneration and Repair, The University of Edinburgh, UK: "Understanding cell fate patterning with minimal *in vitro* models of human development".

16 h 35 Communication selected from abstracts (10' talk & 2' questions)

Eva Moinard, CR2T1, Nantes: "Establishing a reference map of human peri-implantation development".

16 h 50 Keynote lecture (30' talk & 10' questions)

Selina Wray, UCL Queen Square Institute of Neurology, UK: "Human stem cell models of Alzheimer's disease".

17 h 30 Conclusion

Comité scientifique: Betty Gardie (institut du thorax), Claire Pecqueur (CRCI²NA), Anne Camus (RMES), Laurent David (BioCore et CR2TI), Nathalie Gaborit (institut du thorax), Matthieu Giraud (CR2TI), Maxime Mahé (TENS), Vincent Guen (CRCI²NA).

