

Webinar Tissue and organ bioengineering

université
PARIS-SACLAY

Day 1 – 02/04/2025

14h Opening of the webinar

B. Le Pioufle (ENS Paris-Saclay)

Ethics, regulations, social and economical impact of Tissue bioengineering

chairman JC Duclos-Vallée

14h10 – 14h40 : Ethics – *H. Chneiweiss (Inserm)*

14h40 – 15h10 : ATMP for tissue bioengin. – *H. Rouard (EFS)*

Break – 20 mn

Stem Cells / Spheroids / Scaffolds

chairman : A. Barakat

15h30 – 16h : Embryonic tissue development – *F.*

Lemaigre (UCL)

16h – 16h30 : Gut models – *M. Mahe (Inserm)*

16h30 – 17h : 3D Porous scaffolds – *D. Letourneur (Inserm UMR 1148)*

17h – 17h30 : Liver models – *A. Messina (Inserm)*

Day 2 – 03/04/2025

Introduction on Organ on Chip

9h30 – 10h : Introduction to on-chip strategies and modelisation – *JC Duclos-Vallée (APHP)*

On Chip Strategies

chairman B. Le Pioufle

10h – 10h30 : Tissue fiber extrusion using microfluidics – *S. Takeuchi (Université Tokyo)*

10h30 – 11h : Recellularization – *P. Baptista (Aragon Health Sciences)*

Break – 15 mn

chairman B. Le Pioufle

11h15 – 11h45 : Cerebroids : Modeling a brain *in vitro* – *F.*

Yates (Sup'Biotech - CEA)

11h45 – 12h15 : Spheroids in digital microfluidics – *C.*

Baroud (Institut Pasteur)

LUNCH

chairman JC Duclos-Vallée

13h30 – 14h : Vessel on chip – *A. Barakat (Ecole*

Polytechnique)

14h – 14h30 : Miniaturized liver lobule on chip (*Bruno Le Pioufle, ENS Paris Saclay*)

Extracorporeal systems

chairman JC Duclos-Vallée

14h30 – 15h : Extracorporeal Lung – *J. Issard (APHP)*

15h – 15h30 : Extracorporeal Liver – *U. Pereira (UTC)*

Break – 15 mn

15h45 – 16h15 : Skin reconstruction – *S. Banzet (IRBA, Inserm)*

16h15 – 16h45 : Bone reconstruction – *H. Petite (Inserm)*

Day 3 – 04/04/2025

Clinical applications

chairman JC. Duclos-Vallée

14h – 14h30 : Retinal reconstruction – *O. Goureau (Institut de la Vision)*

14h30 – 15h : Tracheal reconstruction – *To be confirmed*

Break – 15 mn

15h15 – 15h45 : Multiphoton microscopy of tissues – *E. Beaurepaire (LOB, Ecole Polytechnique)*

15h45 – 16h15 : Bioimpression Technologies – *C. Marquette (UMR 5246, Lyon 1)*

End of the webinar