



Webinar Tissue and organ bioengineering

université
PARIS-SACLAY

Day 1 – 05/04/2023

10h : Opening talk: Bioengineering for biomedical applications

JC. Duclos-Vallée (APHP – Hepatinov – IFBF)

Ethics, regulations, social and economical impact of Tissue bioengineering

10h30 – 11h00 : Ethics – H. Chneiweiss (Inserm)

Break – 15 mn

11h 15 – 11h 45 : ATMP for tissue bioengin. – H. Rouard

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Stem Cells / Spheroids / Scaffolds

13h30 – 14h : Organoids applications – T. Takebe

(Cincinnati's Children Hospital/Tokyo University)

14h – 14h30 : Gut models – M. Mahe (Inserm)

Break – 15 mn

14h45 – 15h15 : Liver models – A. Messina (Inserm UMR 1193)

15h15 – 15h45 : 3D Porous scaffolds – D. Letourneur (Inserm UMR 1148)

15h45 – 16h15 : Recellularization – P. Baptista (Aragon Health Sciences)

Day 2 – 06/04/2023

Introduction on Organ on Chip

9h30 – 10h : Introduction to on-chip strategies and modelisation – B. Le Pioufle (ENS Paris-Saclay)

On Chip Strategies

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

10h30 – 11h : Liver on chip – Y. Sakai (Université Tokyo)

Break – 15 mn

11h15 – 11h45 : Gut on chip and multiorgans on chip – S. Descroix (IPGG)

11h45 – 12h15 : Cerebroids : Modeling a brain *in vitro* – F. Yates (Sup'Biotech - CEA)

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13h30 – 14h : Spheroids in digital microfluidics – C. Baroud (Institut Pasteur)

14h – 14h30 : Vessel on chip – A. Barakat (Ecole Polytechnique)

Break – 15mn

Extracorporeal systems

14h45 – 15h15 : Extracorporeal Liver – C. Legallais (UTC)

Day 3 – 07/04/2023

BioPrinting Technologies

9h15 – 9h45 : Bioimpression Technologies – C. Marquette (UMR 5246, Lyon 1)

Organ on chip for toxicology

9h45 - 10h15 : Predictive toxicology – J. Richard (Sanofi)

Imaging

10h30 – 11h00 : Multiphoton microscopy of tissues – E. Beaupère

Break – 15 mn

Clinical applications

11h15 – 11h45 : Retinal reconstruction – O. Goureau (Institut de la Vision)

11h45 – 12h15 : Tracheal reconstruction – E. Martinod (APHP)

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13h30 – 14h : Bone reconstruction – H. Petite (Lariboisière)

14h – 14h30 : Skin reconstruction – S. Banzet (Percy)

End of the webinar

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