

Webinar Tissue and organ bioengineering

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Day 1 – 06/04/2022

Back to basis of Bioengineering

10h30 – 11h15 : Introduction to Life engineering – B. David (CentraleSupélec)

11h15 – 12h : Gut models – M. Mahe (Inserm)

Stem Cells / Ethics / Spheroids / Scaffolds

12h – 12h45 : Organoids applications – T. Takebe (Cincinnati's Children Hospital/Tokyo University)

LUNCH

14h – 14h30 : Ethics – H. Chneiweiss (Inserm)

14h30 – 15h : Bioengineering for clinical applications : Why ? – JC. Duclos-Vallée (APHP – Hepatinov – IFBF)

Break – 15 mn

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

15h45 – 16h15 : 3D Porous scaffolds – D. Letourneur (Inserm UMR 1148)

16h15 – 17h : Liver models – A. Messina (Inserm UMR 1193)

17h – 17h30 : Tracheal reconstruction – E. Martinod (APHP)

Day 2 – 07/04/2022

Back to basis of Organ on Chip

10h – 11h : Introduction to on-chip strategies and modelisation – B. Le Pioufle (ENS Paris-Saclay) and A. Barakat (Ecole Polytechnique)

On Chip Strategies

11h00 – 11h45 : Bioengineering for the food industry – S. Takeuchi (Université Tokyo)

11h45 – 12h30 : Liver on chip – Y. Sakai (Université Tokyo)

LUNCH

14h – 14h30 : Gut on chip and multiorgans on chip – S. Descroix (IPGG)

14h30 – 15h00 :

15h00 – 15h30 : Cerebroids : Modeling a brain in vitro – F. Yates (Sup'Biotech - CEA)

Break – 15mn

Extracorporeal systems

15h45 – 16h30 : Extracorporeal Liver – C. Legallais (UTC)

Day 3 – 08/04/2022

Imaging

10h – 10h30 : Multiphoton imaging of tissues – E. Beaufepaire

Pre-clinical applications

10h30 – 11h : Predictive toxicology – J. Richard (Sanofi)

11h – 11h30 : Skin reconstruction – M. Trouillas (IRBA)

11h30 – 12h15 : Retinal reconstruction – O. Goureau (Institut de la Vision)

LUNCH

13h30 – 14h15 : Spheroids in digital microfluidics – C. Baroud (Institut Pasteur)

Regulation & Economics

14h 15 – 14h 45 : ATMP for Bone repair : the key role of the scaffolds in clinical practice – H. Rouard (UPEC/EFS/U955)

14h45 – 15h15 : Economics – E. Bur (IFBF)