

Inserm Workshop 258

Bioimpression 3D et Biofabrication : des modèles cellulaires aux applications d'ingénierie tissulaire

3D Bioprinting and Biofabrication: From cellular models to tissue engineering applications

13-15 novembre 2019 / November 13-15, 2019 ■ Bordeaux, France

Mercredi 13 novembre 2019 ■ **Wednesday November, 13th 2019**

15:30 - 16:00	Reception of participants
16:00 - 16:15	Welcome and presentation by the organizers
SESSION I	3D Bio/printing and Biofabrication : from basics to application
16:15 - 17:00	3D printing: from concept to application Sylvain CATROS (Inserm U1026, Bordeaux, France)
17:00 - 17:30	Coffee break
17:30 - 18:00	3D Bio-printing: from concept to application - ART BioPrint: the structure and its objectives Hugo OLIVEIRA (Inserm U1026, Bordeaux, France)
18:00 - 18:30	Bioinks: from development to application Vianney DELPLACE (Inserm UMR-S 1229-RMES, Nantes, France)
18:30 - 19:00	3D (Bio) printing: an ethical perspective Phoebe LI (University of Sussex, Brighton, United Kingdom)
19:30	Dinner

Jeudi 14 novembre 2019 ■ **Thursday November, 14th 2019**

06:30 - 08:30	Breakfast
SESSION II	Bioprinting/Biofabrication tools for the creation of advanced culture models
08:30 - 09:15	Biofabrication and Bioink Platforms for complex 3D model development Tim WOODFIELD (Christchurch School of Medicine and Health Sciences, Christchurch, New Zealand)
09:15 - 10:00	Decellularized extracellular matrix: A step towards the next generation source for bioink manufacturing Hee-Gyehong YI (Pohang University of Science and Technology, Pohang, South Korea)
10:00 - 10:30	Coffee break
10:30 - 11:15	3D-printed fluidic networks as vasculature for engineered tissue Jordan MILLER (Rice University, Houston, USA)
11:15 - 12:00	Bioprinting for 3D Vascularized Tissues and Perfusable Tissues Kimberly HOMAN (Wyss Institute, Harvard, USA)
12:00 - 14:00	Lunch

14:00 - 14:45	Biofabrication to Control Cell Fate Lorenzo MORONI (MERLN Institute, Maastricht, The Netherlands)
14:45 - 15:30	Round Table (Woodfield, Yi, Miller, Homan, Moroni, Li) A new paradigm for <i>in vitro</i> models, a fast track for animal experimentation reduction and towards personalized medicine? A technological, transfer and ethical perspective.
15:30 - 16:00	Coffee Break
SESSION III	Bioprinting/Biofabrication for Tissue regeneration
16:00 - 16:45	Biofabrication approaches for cartilage repair Riccardo LEVATO (Utrecht University, Utrecht, The Netherlands)
16:45 - 17:30	3D cell printing for skeletal applications Anja LODE (Centre for Translational Bone, Joint and Soft Tissue Research, Dresden, Germany)
17:30 - 18:15	LAB / Bioprinting in situ and in vivo Olivia KEROUEDAN (Inserm U1026, Bordeaux, France)
18:15 - 19:00	Round Table (Laronda, Levato, Lode, Cubo, Kerouedan, Devillard) How far are we to create functional tissues?
19:30 - 20:15	Cocktail
20:15	Dinner

Vendredi 15 novembre 2019 ■ **Friday November, 15th 2019**

06:30 - 08:30	Breakfast
08:30 - 09:15	Skin equivalents through bioprinting Nieves CUBO (Centre for Translational Bone, Joint and Soft Tissue Research, Dresden, Germany)
09:15 - 10:00	3D printed functional ovary for oncofertility Monica LARONDA (Feinberg School of Medicine, Chicago, USA)
10:00 - 10:30	Coffee Break
SESSION IV	A market and industry perspective
10:30 - 11:10	Laser Additive Printing of Cells Fabien GUILLEMOT (Poietis, Bordeaux, France)
11:10 - 11:50	Advanced platforms for bioprinting: the added value of combining technologies Marc THURNER (RegenHU, Switzerland)
11:50 - 12:30	The promise of bioprinting in the cosmetic industry Maite RIELLAND (L'Oreal, Paris, France)
12:30 - 14:00	Lunch
14:00	Departure