

Inserm Workshop 253

Organes-sur-puces : comprendre et mimer le vivant pour mieux le soigner
Organ-on-chip: understanding and mimicking living organisms for better treatment

15-17 octobre 2018 / **October 15-17, 2018** ■ Bordeaux, France

Lundi 15 octobre 2018 ■ Monday October, 15th 2018

15:30 - 16:00	Reception of participants
16:00 - 16:15	Welcome and presentation by the organizers
SESSION I	Organ-on-chip: How to mimic the structure to study the function
16:15 - 17:00	Intestine epithelium & State of the Art Nancy ALLBRITTON <i>University of North Carolina at Chapel Hill, USA</i>
17:00 - 17:30	Coffee break
17:30 - 18:15	Lung-on-a-chip for drug discovery Olivier GUENAT <i>University of Bern, Switzerland</i>
18:15 - 19:00	Cardiac and adipose tissue Madalena CIPRIANO <i>Fraunhofer Institute, Stuttgart, Germany</i>
19:30	Dinner

Mardi 16 octobre 2018 ■ Tuesday October, 16th 2018

06:30 - 09:00	Breakfast
SESSION II	Organ-on-chip: Barrier Function & Biosensors
09:00 - 9:45	Cell sheet engineering / Kidney on a chip Brian DERBY <i>The University of Manchester, United Kingdom</i>
09:45 - 10:15	Technical Spotlight Fluigent/Micronit (OOC platform)
10:15 - 10:45	Coffee break
10:45 - 11:30	Optical oxygen and pH sensors for OOC Torsten MAYR <i>Technische Universität Graz, Austria</i>
11:30 - 12:15	Models of biological barriers & TEER Maria DELI <i>Hungarian Academy of Sciences, Hungary</i>
12:15 - 14:00	Lunch

SESSION III		Organ-on-chip: convergence of microfluidics & tissue engineering	
14:00 - 14:45	Applied microfluidics and bioengineering Séverine LE GAC <i>University of Twente, Netherlands</i>		
14:45 - 15:30	New Biomaterials for Lung on a chip / Microfluidic Valley Emmanuel ROY <i>Eden Microfluidics, Paris, France</i>		
15:30 - 16:15	3D Bioprinting for Organ on chip Christophe MARQUETTE <i>University Lyon 1, Villeurbanne, France</i>		
16:15 - 16:45	Coffee Break		
SESSION IV		From Organ-on-chip to « Human-on-a-chip »: myth or reality?	
16:45 - 17:30	The European hDMET Consortium Christine MUMMERY <i>Leiden University Medical Center (LUMC), Netherlands</i>		
17:30 - 18:15	Liver on chip & -omics analysis Cécile LEGALLAIS <i>University of Technology of Compiègne (UTC), France</i>		
18:30 - 20:00	Dinner cocktail		
20:00 - 22:00	ROUND TABLE Moderator: Danilo TAGLE <i>National Center for Advancing Translational Sciences at the NIH, Bethesda, USA</i>		

Mercredi 17 octobre 2018 ■ **Wednesday October, 17th 2018**

06:30 - 09:00	Breakfast		
09:00 - 09:45	Multiorgan on chip Oussama EL BARAKA <i>Group Uwe MARX, Technical University of Berlin, Germany</i>		
09:45 - 10:15	Coffee Break		
10:15 - 11:00	OOO as alternative methods to animal experiments: regulatory and ethical issues Marlon SCHNEIDER <i>German Federal Institute for Risk Assessment (BfR), German Centre for the Protection of Laboratory Animals (Bf3R), Berlin, Germany</i>		
11:00 - 11:45	An industry user perspective Rhiannon DAVID <i>AstraZeneca, United Kingdom</i>		
11:45 - 12:00	Conclusion by the organizers		
12:00 - 14:00	Lunch		
14:00	Departure		