

## 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, 15<sup>th</sup> 2018**

15:30 - 16:00	Reception of participants
16:00 - 16:15	Welcome and presentation by the organizers
<b>SESSION I</b>	<b>Organ-on-chip: How to mimic the structure to study the function</b>
16:15 - 17:00	Intestine epithelium & State of the Art <b>Nancy ALLBRITTON</b> <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 <b>Olivier GUENAT</b> <i>University of Bern, Switzerland</i>
18:15 - 19:00	Cardiac and adipose tissue <b>Peter LOSKILL</b> <i>Fraunhofer Institute, Stuttgart, Germany</i>
19:30	Dinner

**Mardi 16 octobre 2018 ■ Tuesday October, 16<sup>th</sup> 2018**

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

<b>SESSION III</b>		<b>Organ-on-chip: convergence of microfluidics &amp; tissue engineering</b>
14:00 - 14:45	Applied microfluidics and bioengineering <b>S��verine LE GAC</b> <i>University of Twente, Netherlands</i>	
14:45 - 15:30	New Biomaterials for Lung on a chip / Microfluidic Valley <b>Emmanuel ROY</b> <i>Eden Microfluidics, Paris, France</i>	
15:30 - 16:15	3D Bioprinting for Organ on chip <b>Christophe MARQUETTE</b> <i>University Lyon 1, Villeurbanne, France</i>	
16:15 - 16:45	<b>Coffee Break</b>	
<b>SESSION IV</b>		<b>From Organ-on-chip to « Human-on-a-chip »: myth or reality?</b>
16:45 - 17:30	The European hDMET Consortium <b>Christine MUMMERY</b> <i>Leiden University Medical Center (LUMC), Netherlands</i>	
17:30 - 18:15	Liver on chip & -omics analysis <b>C��cile LEGALLAIS</b> <i>University of Technology of Compi��gne (UTC), France</i>	
18:30 - 20:00	<b>Dinner cocktail</b>	
20:00 - 22:00	<b>ROUND TABLE</b>	

**Mercredi 17 octobre 2018 ■ Wednesday October, 17<sup>th</sup> 2018**

06:30 - 09:00	<b>Breakfast</b>
09:00 - 09:45	Multiorgan on chip <b>Oussama EL BARAKA</b> <i>Group Uwe MARX, Technical University of Berlin, Germany</i>
09:45 - 10:15	<b>Coffee Break</b>
10:15 - 11:00	OOA as alternative methods to animal experiments: regulatory and ethical issues <b>Marlon SCHNEIDER</b> <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 <b>Rhiannon DAVID</b> <i>AstraZeneca, United Kingdom</i>
11:45 - 12:00	Conclusion by the organizers
12:00 - 14:00	<b>Lunch</b>
14:00	<b>Departure</b>