

Organ on chip: technologies, applications and new challenges for personalized medicine



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The aim of this 2-step workshop is first to provide to the French scientific community an overview of the latest advances in the field of organ-on-chip, from general introduction to recent advance-ments regarding pathophysiology research (metabolic processes/neuroscience/cancer/infection/immunity) including biosensors' integration.



Deadline: **July 3, 2026**

PHASE I THEORETICAL



October
5-7, 2026



Bordeaux

ORGAN ON CHIP TECHNOLOGY

Claudia TEUFEL (University of Tübingen, DEU), Gaëlle RECHER (University of Bordeaux, FRA) and Peter D. JONES (University of Tübingen, DEU)

ORGAN ON CHIP FOR STUDYING HUMAN PHYSIOLOGY

Cécile LEGALAIS (UTC, FRA), Matthieu RAOUX (University of Bordeaux, FRA), Valeria ORLOVA (Leiden University Medical Center, NLD), Franck HALARY (CR2TI UMR1064, FRA), Severine LE GAC (University of Twente, NLD) and Remco DEN DULK (CEA, FRA)

ORGAN ON CHIP FOR MODELLING CHRONIC DISEASES

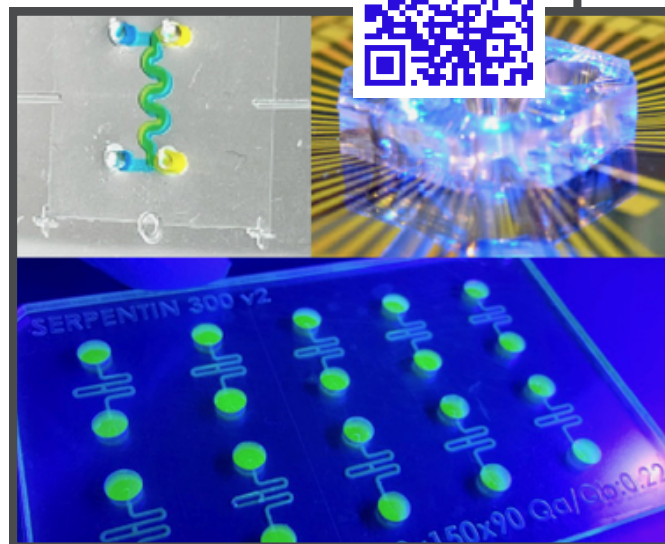
Maxime CAZORLA (Institut de Neurosciences de la Timone, FRA), Pim PIJNAPPEL (Erasmus MC Sophia Children's Hospital, NLD) and Danijela MATIC VIGNJEVIC (Institut Curie, FRA)

ORGAN ON CHIP FOR MODELLING INFECTIOUS DISEASES & IMMUNITY

Maria BERNABEU AZNAR (EMBL, ESP), Vivek THACKER (Heidelberg University Hospital, DEU) and Alexander MOSIG (University Hospital Jena, DEU)

INSERM
Workshop

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PHASE II PRACTICAL



November
2-6, 2026



Lille &
Montpellier

The practical phase will be splitted in two workshops, one in Lille dedicated to the fabrication of a human gut-on-chip, including 3D-printing, fabrication of PDMS chips using soft lithography, and the culture of an intestinal epithelium microfluidic flow conditions. The training will conclude with functional analyses, including optical microscopy and permeability measurements.

The second practical workshop will be in Montpellier and attendees will learn how to manufacture and prepare microfluidic circuits and microelectrode arrays in clean room, then they will use these devices in experiments for the study of blood flows in microfluidics and the electrophysiology of cardiomyocytes.

SELECTION: 6 trainees for Lille and 10 trainees for Montpellier will be selected among Phase I participants.

INFORMATION &
REGISTRATION [CLICK HERE](#)

