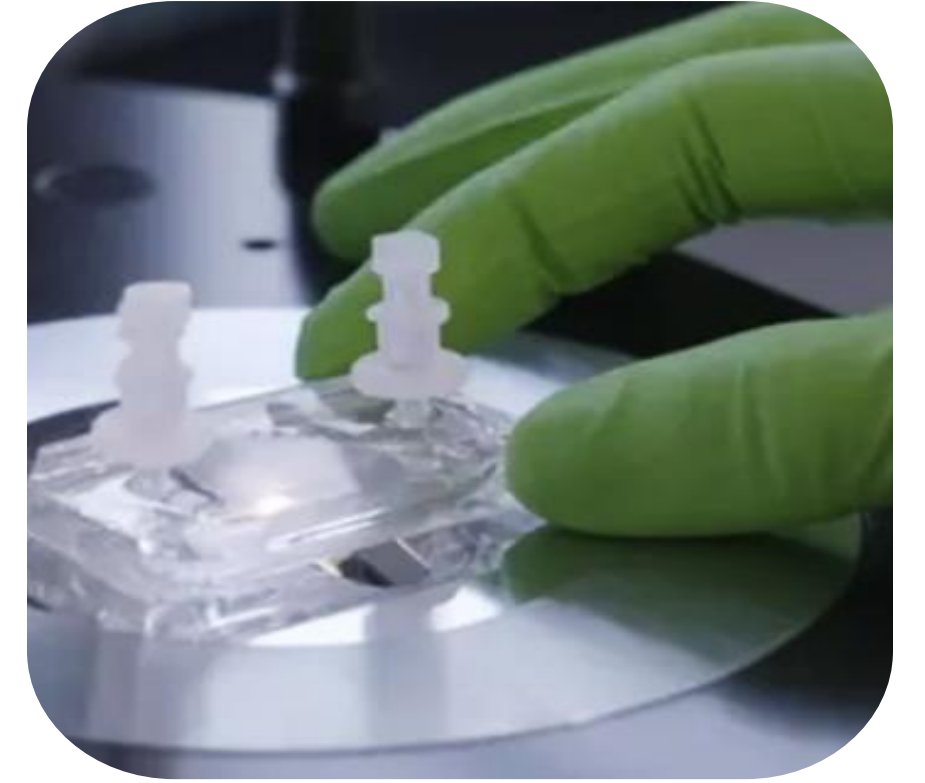


Organ on Chip – MicroPhysiological Systems

Location : Université de technologie de Compiègne – Centre de recherche de Royallieu

Scientific context

Microfluidic devices for cell culture are becoming increasingly important as alternatives to animal trials for fundamental biology studies, for evaluating drug candidates in predictive toxicology.



Miniproject

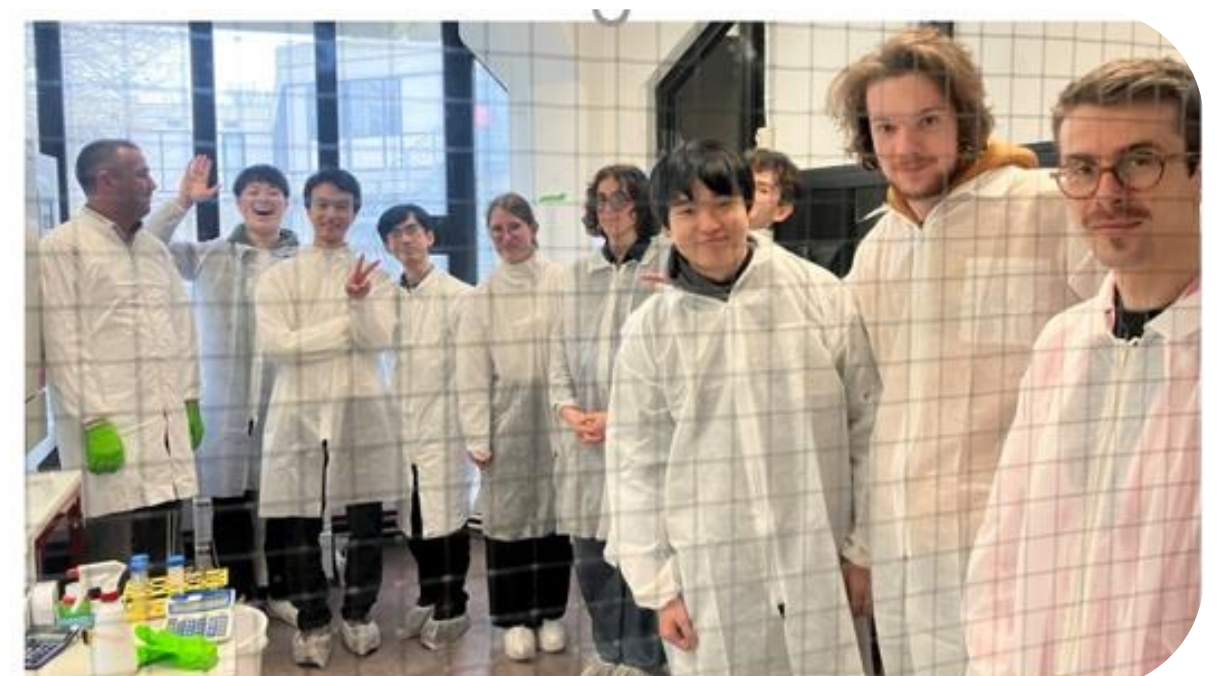
Imagine next generation
of organ-on-a-chip
in a multidisciplinary
and international
context (UTC engineers+
Japanese students)

Lectures

- Microfabrication
- Microfluidics
- 3D cell culture
- Mathematical models
- Applications in biology and toxicology
- Regulatory issues
- Clinical Translation

Hands on

- Biochip design
- Fabrication
- Flow and pressure measurements
- Cell seeding and culture in biochips



Practical Information

- Open to PhD students from Alliance Sorbonne Université
- Fees covered by Initiative InLife (train, room at Uni residence, meals)
- Rooms available at CROUS in Compiègne
- Submit candidacy (motivation letter & CV) to cecile.legallais@utc.fr
- Deadline to candidate : December 10th
- Page web : <https://inlife.sorbonne-universite.fr/formation-0/ecoles-de-saison/organ-chip>

