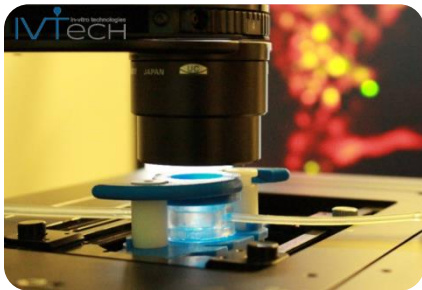


## 8<sup>TH</sup> WORKSHOP ON 3D advanced IN-VITRO MODELS

*In-vitro cell cultures are often proposed as “Alternatives” to animal tests, but they are still inadequate to reproduce human pathophysiology. This is mainly due to the technological limitations of the standard equipment used in cell culture laboratories, such as the lack of a 3D micro-architecture, the static environment and the absence of cross talk between different tissues.*



*The IVT<sup>ech</sup> mission is to provide technology and services to allow the implementation of relevant advanced in-vitro models*

*It's a pleasure to announce the 8<sup>th</sup> workshop on 3D advanced in-vitro models, focused on the design of multi-organ and dynamic in-vitro tests using IVT<sup>ech</sup> technology. Moreover, the very last trend in research, we will show how to use a bioprinter machine (BioX by Cellink AB, commercialized by Twin Helix) in cooperation with our products, in order to realize a highly correlated in-vitro model with the human reality.*

## Overview OF THE WORKSHOP

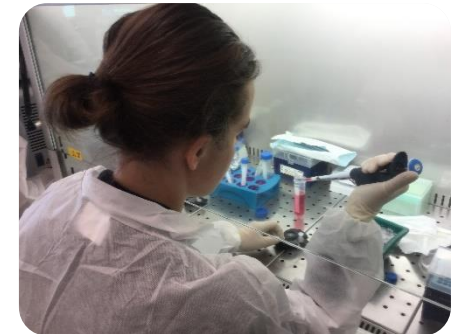


### Theoretical training

- Introduction on the use of **bioreactors & bioprinter**
- Introduction on the **tissue model design** for drug and nano-toxicity studies in dynamic conditions.

### Hands-on experience

- Practical demonstration of IVT<sup>ech</sup> products as platforms to implement advanced in-vitro models
- Hands-on experience to develop a 3D & dynamic in-vitro model, using IVT<sup>ech</sup> products
- Practical demonstration of the BioX (by Cellink AB , commercialized by Twin Helix) to realize a complex scaffold



# Aim OF THE WORKSHOP

## Workshop key points

- Introduce the practice and use of **innovative cell culture systems** to design meaningful in-vitro experiments
- Show how to implement **3D in-vitro models** under **dynamic conditions**, using IVTech LiveBox1
- Show how to implement **dynamic in-vitro models of physiological barriers**, using IVTech LiveBox2
- Show how to **apply dynamic conditions** to the cells environment using IVTech LiveFlow
- Provide the participants with a **practical experience** on multi-organ in-vitro model design to obtain **physiologically relevant results**
- Experiment **Real-time monitoring** by **imaging** and **media sampling**, and routine end-point analyses, using **JuLi™ Stage** (by NanoEnTek Inc. <http://www.julistage.com/>, commercialized in Italy by Twin Helix)
- Show how to print a 3D scaffold using the **BioX** (by Cellink AB , <https://cellink.com>)



## 8<sup>TH</sup> WORKSHOP ON 3D advanced IN-VITRO MODELS

**Dates:** 07<sup>th</sup> - 08<sup>th</sup> March 2019

**Where:** Department of Drug Science, University of Pavia,  
via Taramelli 12, 27100 Pavia (Italy)

**Registration fee:** € 300+VAT (full), € 250+VAT (Students/Young Researchers\*) including consumables, coffee breaks & lunches  
Contact us for group discount

\*under 30 years

**Participants:** A maximum of 20 participants with lab experience



**Registration deadline:**  
01<sup>st</sup> March 2019

**Register at:** [info@ivtech.it](mailto:info@ivtech.it)

**More Info:** [www.ivtech.it](http://www.ivtech.it)

**Contacts:** +39 333 4901760  
(Dr. Tommaso Sbrana)

