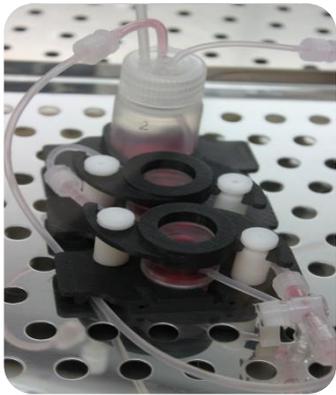


Second In-Vitro ALternatives WORKSHOP

Animal tests are poorly predictive of human responses, but are currently mandatory for drug approval process. On the other hand, current in vitro models 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^{eCH} mission is to disseminate the know-how about pathophysiologically relevant advanced in-vitro models, acquired in more than 10 years of research

*Following our First in-vitro alternatives workshop (Pisa, July 2014), it's a pleasure to announce our **Second In-vitro Alternatives Workshop**, focused on the design of **multi-organ and dynamic in-vitro models** using IVT^{eCH} technology. These models closely mimic the human physiology, to be used as novel and promising alternatives to animal tests.*

Overview of THE WORKSHOP

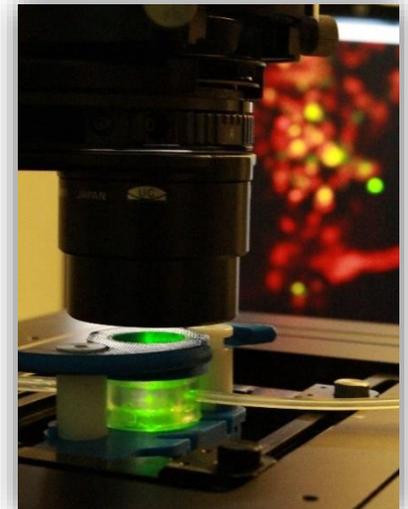


Theoretical training

- Introduction on the use of bioreactors in the laboratory practice
- Participants will learn the basics of organ and tissue model design for drug and nano-toxicity studies in dynamic conditions.

Hands-on experience

- Practical demonstration of the advantages of IVT^{eCH} products as platforms to implement advanced in-vitro models
- Participants will use IVT^{eCH} products to perform connected cell cultures between an epithelial barriers and 3D constructs under dynamic conditions.



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
- Provide the participants with a **practical experience** on multi-organ and connected in-vitro model design and implementation, to obtain **physiologically relevant results**
- Show how to perform in-situ real-time imaging and routine end-point analyses

The IVTech team will support the participants in all phases required to run a **3D dynamic multi-organ in-vitro model**, from theory to practice.



Second IN-VITRO ALTERNATIVES WORKSHOP

Dates: 23th - 24th July 2015

Where: Istituto di Fisica Applicata "Nello Carrara", via Madonna del Piano 10, 50019, Sesto Fiorentino (FI), Italy

Registration fee: € 300+VAT (full), € 250+VAT (Students/Young Researchers*) including consumables, coffee breaks & lunches
*under 30 years

Participants: A maximum of 15 participants with lab experience



Registration deadline:
30 June 2015

Register at: info@ivtech.it

More Info: www.ivtech.it

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



 **Centro E. Piaggio**
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