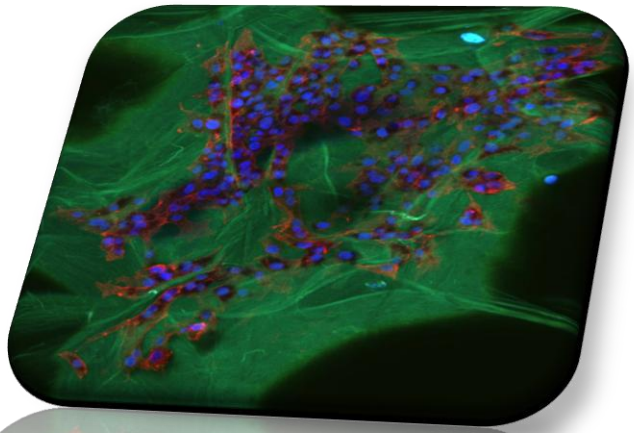
IVTech In-vitro technologies

Introduction

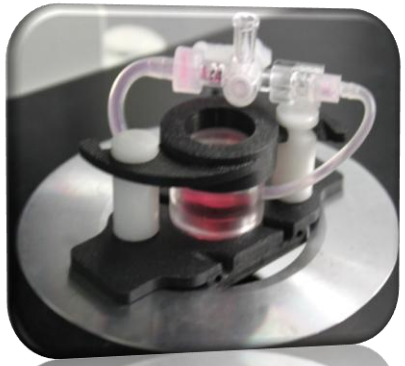
Animal tests are poorly predictive of human responses, but are currently mandatory for drug testing. On the other hand, current in vitro models are still inadequate representatives of human patho-physiology. This is due to several factors, correlated with the limitations of the standard technology used in cell culture laboratories: the lack of a 3D micro-architecture, the static environment and the absence of cross talk between different tissues.



IVTech is dedicated to the dissemination of new methods and new approaches to cell culture experiments which bring in-vitro systems closer to the in-vivo environment, by combining flow, scaffolds and multiple cell types in fluidic bioreactors.

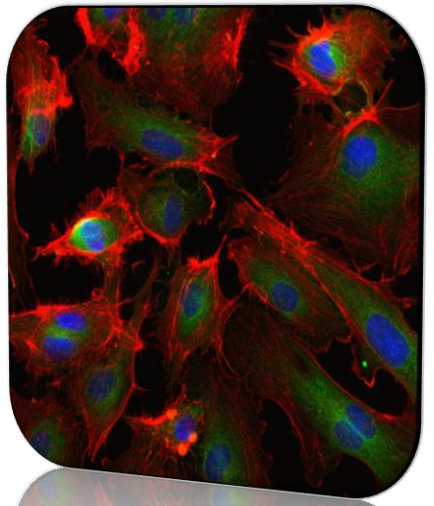
Following on from the success of joint courses with the ISS in Rome and IZLER in Brescia, IVTech's first independent workshop on the design of in-vitro experiments to create better models of human physiology and as alternatives to animal tests will be held in Pisa (21-23 July 2014).

Overview of the workshop



The workshop is a practical training course on the use of 3D models and millifluidics systems for cell culture. Mornings will be dedicated to lectures on alternatives to animal testing and innovations in in-vitro research.

Participants will also learn the basics of organ and tissue models for drug and nanotoxicity screening. In the afternoon participants will be able to use the IVTech products, and perform 3D experiments in dynamic conditions, starting from cell seeding on scaffolds, stimulation with flow and post-processing and data analysis using 3D imaging and media assays.



Aim of the workshop

In the First Workshop IVTech will demonstrate:

- the practice and use of innovative cell culture systems to design meaningful in-vitro experiments
- how to run 3D in-vitro models in dynamic conditions
- how to obtain physiologically relevant results from 3D in-vitro models
- provide the participants with a practical experience in the performing of a simple 3D dynamic in-vitro model

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.

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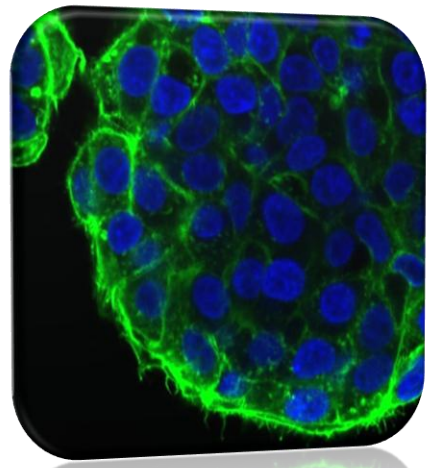
First in-vitro alternatives workshop



Dates: 21th - 23th July 2014.
Where: Cell culture laboratories, Institute of Clinical Physiology, CNR, via Moruzzi 1 Pisa.
Costs: 300 € /person, which includes materials, documentation and cell culture consumables.
Participants: A maximum of 20 participants with lab experience.
Registration deadline:10 July 2014
Register at: info@ivtech.it.
More Info: www.ivtech.it

IFC CNR

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