

# In LiveTox workshop: a practical training course on integrated fluidic models for in-vitro testing 17-18 September 2012

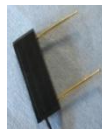
## Location

Istituto Superiore di  
Sanità (ISS) ,viale Regina  
Elena 299 ,Rome.

## Improving our capacity to mimic physiology

The establishment of new in-vitro models requires an evolution of technology in order to allow researchers to implement new and physiologically relevant situations. The word “relevant” refers to the correspondence between in-vitro models and human physiology. To this end, a modular fluidics system was developed in InLiveTox to model the response of cells and tissues to ingested nanomaterials. The system is more convenient and ethically less questionable than animal testing as well as more relevant than the in-vitro single cell culture /co-culture models currently being used.

•**ILT2:** an example of a TEER integrated barrier model developed in InLiveTox will be demonstrated



•**Quasi-Vivo or ILT0:** training course on multi organ culture. Participants will learn how to design and assemble a multi organ experiment using modular bioreactors

## Summary

This workshop has the goal of presenting the InLiveTox concept and fluidic systems to researchers involved in toxicity testing, barrier models and with a strong interest in refining in-vitro test systems as a means of reducing animal tests. These attractive and low cost devices will allow researchers to surpass the problems related to simulation of a physiological tissue in-vitro, in order to obtain a relevant model of an organ or multi organ system.

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