

Inside the barriers: *in vitro* models and their applications

Day 1: February 18th - Modelling the skin

9.45 - 10.00	Access to the platform
10.00 - 10.10	Welcome and introduction (Chair-Diego Baderna / Olimpia Vincentini)
10.15 - 10.40	<i>Modelli cutanei in vitro e loro applicazione.</i> Dott.ssa Elena Dell'Ambra - Istituto Dermopatico dell'Immacolata, Roma (Italy)
10.40 - 10.55	<i>3D bioprinting di cute umana e tumori squamocellulari quali modelli avanzati per la medicina di precisione.</i> Dott.ssa Francesca Delle Monache - Istituto Dermopatico dell'Immacolata, Roma (Italy)
10.55 - 11.20	<i>A new highly representative in-vitro model of human skin.</i> Dott. Tommaso Sbrana - IVTech Srl, Massarosa (Italy)
11.20 - 11.30	Coffe break
11.30 - 11.55	<i>EpiDerm Phototoxicity test - part of new OECD TG 498: Reconstructed Human EpiDermis Phototoxicity test method.</i> Dott.ssa Silvia Letasiova - MatTek IVLSL, Bratislava (Slovakia)
11.55 - 12.20	<i>Irritazione e corrosione cutanea: studi in vitro con tessuti ricostruiti.</i> Dott.ssa Alice Cattaneo - Chemservice Srl, Novate Milanese (Italy)
12.20 - 12.45	<i>A comparative study between Franz Diffusion Chamber and a novel microphysiological systems for more predictive skin permeation assays.</i> Dott.ssa Silvia Scaglione - React4Life, Genova (Italy)
12.45- 13.15	Discussion and conclusions

Scientific organising committee

Diego Baderna (Chemservice Srl), Susanna Alloisio (ETT Spa), Olimpia Vincentini (Istituto Superiore di Sanità),
Nathalie Steimberg (Università degli Studi di Brescia), Francesca Caloni (Università degli Studi di Milano)

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Day 2: February 25th - Modelling the pulmonary barrier

10.45 - 11.00	Access to platform
11.00 - 11.10	Welcome and Introduction (Chair :Francesca Caloni/ Susanna Alloisio)
11.10 - 11.45	<i>Modelli epiteliali respiratori per lo screening di sostanze chimiche</i> Dr.ssa Alessandra Ludovico (Istituto di Biofisica-CNR, Genova, Italy)
11.50 - 12.15	Modelli cellulari per lo studio della risposta all'esposizione di inquinanti ambientali Prof.ssa Annamaria Colacci (Università di Bologna; Arpae Emilia-Romagna, Italy)
12.20 - 12.30	Coffee break
12.30 - 12.25	<i>Inhalation toxicity assays using the EpiAirway in vitro airway model</i> Dott. Jan Markus (MatTek IVLSL, Bratislava, Slovakia)
13.00 - 13.25	<i>Microphysiological Systems-in vitro on steroids</i> Prof. Thomas Hartung (The Johns Hopkins University, Baltimore, USA)
13.25 - 13.45	<i>Discussion and conclusions</i>

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Day 3: March 4th - Modelling the gastro-intestinal barrier

9.45 - 10.00	Access to the platform
10.00 - 10.10	Welcome and introduction (Chair: Olimpia Vincentini/ Nathalie Steimberg)
10.15 - 10.40	<i>Intestinal barriers: from 3D epithelial models to intestinal spheroids</i> Prof.ssa Francesca Rescigno, VitroScreen Srl, Italy.
10.45-11.10	<i>2D/3D intestinal biomimetic tissue models combined to microphysiological systems for in vitro absorption studies</i> Dr Silvia Scaglione, React4life Srl, Italy
11.10-11.20	Coffe break
11.20-11.35	<i>A fluidic platform to implement advanced in-vitro models of pathophysiological intestinal barriers</i> Dr.ssa Simona Scorza, University of Bari, Italy
11.35-11.45	<i>IVTech: new tools for advanced in-vitro models</i> Dr Tommaso Sbrana, IVTech Srl, Italy
11.45-12.10	<i>In vitro model of human intestinal epithelium for studying drug toxicity and pharmacokinetics</i> Dr Jan Markus, MatTek IVLSL, Slovakia
12.15 – 12.45	Discussion and Conclusions

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Day 4: March 11th - Modelling the Multiorgan

- 9.45 - 10.00 Access to the platform
- 10.00 - 10.10 Welcome and introduction (Chair: Susanna Alloisio/ Nathalie Steimberg)
- 10.10 - 10.35 *A new immunocompetent OOC platform for modelling the 3D tumor microenvironment with capillary flow-driven immune cells.*
Dr Silvia Scaglione, React4life Srl, Italy
- 10.40 - 11.05 *Beating Organs-on-Chip: from single functional tissues to multiorgan models*
Dott.ssa Paola Occhetta, CEO at BiomimX Srl, Italy
- 11.05 - 11.15 Coffee break
- 11.15 - 11.40 *Establishment of a 3D multi-organ system in a milli-fluidic bioreactor to study Chronic Lymphocytic Leukemia (CLL) in vitro*
Dott.ssa Fiorella Scagnoli, I.R.C.C.S Ospedale San Raffaele - Italy
- 11.40 - 12.20 Discussion and conclusions



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