



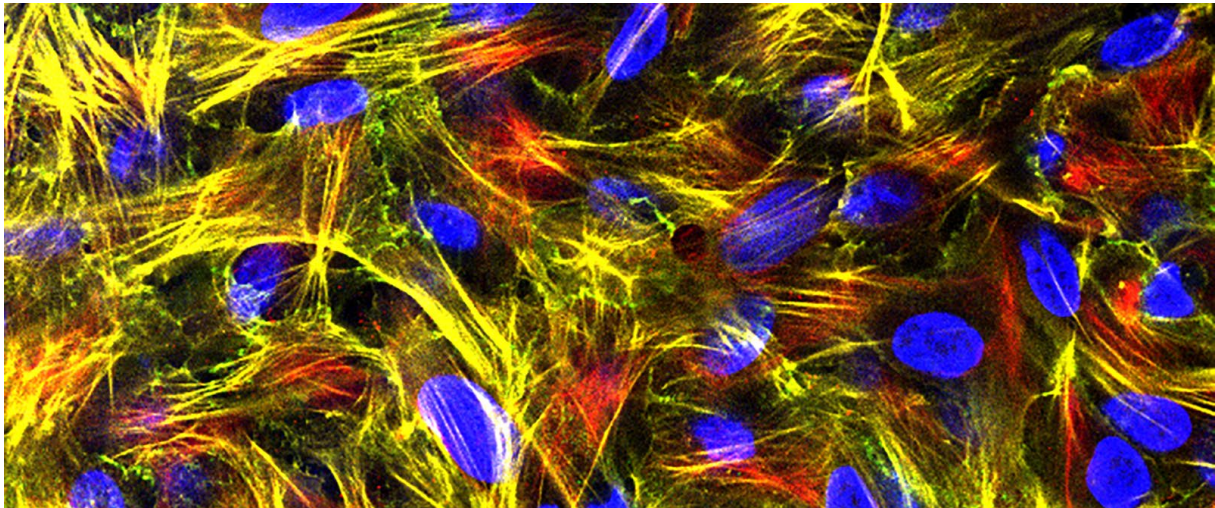
Workshop on 3D cell culture models:

Lung, intestine and skin tissues

Organized by the PATROLS and CITYCARE consortia

Adolphe Merkle Institute, Fribourg, Switzerland

8-9th July, 2019





Theoretical part

Introduction	
Application of advanced 3D co-culture models	Prof. Dr. B. Rothen-Rutishauser, Adolphe Merkle Institute, Switzerland
Lung models	
A dynamic in vitro model approach towards deducing the hazard of nanomaterial exposure to the alveolar epithelial barrier	Dr. K. Meldrum, Swansea University, United Kingdom
<i>In vitro</i> model for the prediction of respiratory sensitization	Dr. S. Cambier, LIST, ERIN, Belvaux, Luxembourg
Engineering of a dynamic model of the alveolar interface for the study of aerosol deposition	R. Nossa, University of Pisa, Italy
Skin models	
Construction of a Full Thickness Skin Model Using RAFT™ 3D Cell Culture System	Dr. D. Confalonieri, LonzaPharma and Biotech-Bioscience Solutions, Germany
Reconstructed human skin equivalents- past, present and future	Dr. H. Kandarova, Centre of Experimental Medicine SAS, Bratislava, Slovakia

Practical part

Module I	Skin	Harvesting, seeding and imaging of 3D skin model
Module II	Lung and intestine	Seeding of triple cell co-cultures and live cell staining and imaging
Module III	Realistic exposures	Model exposures using VITROCELL® Cloud and DALI Bioreactor
Module IV	Blood isolation	Isolation of primary monocytes



Day 1: Monday, 8th of July 2019

8.45 – 9.15	Arrival, registration and coffee
9.15-12.00	Theoretical part
9.15-9.45	Application of advanced 3D co-culture models , Prof. Dr. B. Rothen-Rutishauser, Adolphe Merkle Institute, Switzerland
9.45-10.00	A dynamic <i>in vitro</i> model approach towards deducing the hazard of nanomaterial exposure to the alveolar epithelial barrier , Dr. K. Meldrum, Swansea University, United Kingdom
10.00-10.15	<i>In vitro</i> model for the prediction of respiratory sensitization , Dr. S. Cambier, LIST, ERIN, Belvaux, Luxembourg
10.15-10.30	Engineering of a dynamic model of the alveolar interface for the study of aerosol deposition , R. Nossa, University of Pisa, Italy
10.30-10.45	Break
10.45-11.20	Construction of a Full Thickness Skin Model Using RAFT™ 3D Cell Culture System , Dr. D. Confalonieri, LonzaPharma and Biotech-Bioscience Solutions, Germany
11.20-12.00	Reconstructed human skin equivalents- past, present and future , Dr. H. Kandarova, Centre of Experimental Medicine SAS, Bratislava, Slovakia
12.00-13.00	Lunch
13.00-16.00	Practical part
13.00-16.00 Group A	Module I: Skin
13.00-16.00 Group B	Module II: Lung and intestine
16.30-17.30	Module III: Realistic exposures with VITROCELL® Cloud and DALI Bioreactor
16.30-17.00 Group A	
17.00-17.30 Group B	
19.00-21.00	Dinner in Fribourg

Day 2: Tuesday, 9th of July 2019

8.30-12.00 8.30-9.00 Group A and B	Preparation for blood isolation
9.00-12.00 Group A	Module IV: Blood isolation
9.00-12.00 Group B	Module I: Skin
12.00-13.00	Lunch
13.00-16.00	
13.00-16.00 Group B	Module IV: Blood isolation
13.00-16.00 Group A	Module II: Lung and intestine
16.00-16.30 Group A and B	Live cell imaging
16.30-17.00	Closing remarks



Safety

Please wear long trousers and closed shoes in the lab for safety purposes. Lab goggles will be provided.

Dinner

Lunch and dinner is not included in this workshop. Please bring cash (Swiss Franc – CHF) for lunch and dinner. If you have any dietary restriction, please let us know.

Contact information

For questions regarding the workshop please send an email to amieuworkshop@gmail.com.

Venue

Adolphe Merkle Institute
University of Fribourg
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Lonza

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