

Materials List for:

Impact Assessment of Repeated Exposure of Organotypic 3D Bronchial and Nasal Tissue Culture Models to Whole Cigarette Smoke

Diana Kuehn¹, Shoaib Majeed¹, Emmanuel Guedj¹, Remi Dulize¹, Karine Baumer¹, Anita Iskandar¹, Stephanie Boue¹, Florian Martin¹, Radina Kostadinova¹, Carole Mathis¹, Nikolai V. Ivanov¹, Stefan Frentzel¹, Julia Hoeng¹, Manuel C. Peitsch¹

¹Biological Systems Research, Philip Morris International R&D, Philip Morris Products S.A.

Correspondence to: Stephanie Boue at Stephanie.Boue@pmi.com

URL: <https://www.jove.com/video/52325>

DOI: [doi:10.3791/52325](https://doi.org/10.3791/52325)

Materials

Name	Company	Catalog Number	Comments
MucilAir-human fibroblasts-bronchia	Epithelix Sàrl, Geneva, Switzerland	http://www.epithelix.com/content/view/122/19/lang,en/	
MucilAir Culture Medium	Epithelix Sàrl, Geneva, Switzerland	http://www.epithelix.com/content/view/84/16/lang,en/	
VITROCELL	VITROCELL systems GmbH, Waldkirch, Germany	http://www.vitrocell.com/index.php?Nav_Nummer=2&R=	
3R4F reference cigarette	University of Kentucky	http://www2.ca.uky.edu/refcig/	
30-port carousel smoking machine SM2000	Philip Morris, Int.		
CiliaMetrix camera and software	La Haute École de Gestion (HESGE), Geneva, Switzerland		
Leica DMIL microscope	Leica, Heerbrugg, Switzerland		
LED light source	Titan Tool Supplies, Buffalo, NY		
Chopstick Electrode STX-2	World Precision Instruments	http://www.wpiinc.com/products/physiology/stx2-chopstick-electrode-set-for-evom2/	
EVOMXTM Epithelial Voltohmmeter	World Precision Instruments	http://www.wpiinc.com/products/physiology/evom2-evom2-epithelial-voltohmmeter-for-teer/	
Luciferin Detection Reagent			
MagNA Lyser Instrument	Roche	http://www.roche.com/products/product-details.htm?region=us&type=product&id=66	
chloroform	Sigma-Aldrich	http://www.sigmaaldrich.com/catalog/product/sial/288306?lang=en&region=	
QIAcube	Qiagen	9001882	
NanoDrop	Thermo Scientific	http://www.nanodrop.com/	
Agilent 2100 Bioanalyzer	Agilent	http://www.genomics.agilent.com/en/Bioanalyzer-System/2100-Bioanalyzer-Instruments/?cid=AG-PT-106	
Affymetrix GeneChip High throughput 3'IVT Express Kit	Affymetrix	http://www.affymetrix.com/catalog/prod370001/AFFY/High-Throughput-(HT)-Whole-Transcript-(WT)-Kit	
Scanner 3000 7G	Affymetrix	http://www.affymetrix.com/catalog/131503/AFFY/Scanner-3000-7G	