

Materials List for:

A Multimodal Imaging Approach Based on Micro-CT and Fluorescence Molecular Tomography for Longitudinal Assessment of Bleomycin-Induced Lung Fibrosis in Mice

Francesca Ruscitti¹, Francesca Ravanetti², Gaetano Donofrio², Yanto Ridwan³, Paula van Heijningen³, Jeroen Essers⁴, Gino Villetti¹, Antonio Cacchioli², Wim Vos⁵, Franco Fabio Stellari¹

¹Corporate Preclinical R&D, Chiesi Farmaceutici S.p.A.

²Department of Veterinary Science, University of Parma

³Department of Molecular Genetics, Erasmus MC

⁴Department of Molecular Genetics, Vascular Surgery, Radiation Oncology, Erasmus MC

⁵Fluida NV

Correspondence to: Franco Fabio Stellari at FB.Stellari@chiesi.com

URL: <https://www.jove.com/video/56443>

DOI: [doi:10.3791/56443](https://doi.org/10.3791/56443)

Materials

Name	Company	Catalog Number	Comments
FMT 2500 Fluorescence Tomography System	Perkin Elmer Inc.	Experimental Builder	
MMPsense 680	Perkin Elmer Inc.	NEV10126	Protect from light, store the probe at 4 °C
TrueQuant software	Perkin Elmer Inc.		
Female inbred C57BL/6	San Pietro NatisoneHorst, The Netherlands (UD),		Prior to use, animals were acclimatized for at least 5 days to the local vivarium conditions
Isoflurane	ESTEVE spa	571329.8	Do not inhale
Automated cell counter	Dasit XT 1800J	Experimental Builder	
Saline Solution, 0.9% Sodium Chloride (NaCl)	Eurospital	15A2807	
Quantum FX Micro-CT scanner	Perkin Elmer Inc.		
Bleomycin sulphate from Streptomyces Verticillus	Sigma	B2434	
Automatic tissue Processor	ATP700 Histo-Line Laboratories	ATP700	
Embedding system	EG 1160 Leica Biosystems	EG 1160	
Rotary microtome	Slee Cut 6062		
Digital slide scanner	NanoZoomer S60, Hamamatsu Photonics		
NIS-AR image analysis software	Nikon		
Masson's Trichrome Staining	Histo-Line Laboratories		
10% neutral-buffered formalin	Sigma	HT5012-1CS	
Penn-century model DP-4M Dry power insufflator	Penn-century	DPM-EXT	
PE190 micro medical tubing	2biological instruments snc	BB31695-PE/8	
Syringe without needle 5 mL	Terumo	SS*05SE1	Cut the boards of the piston by scissors
Hamilton 0.10 mL (model 1710)	Gastight	81022	
Discofix 3-way Stopcock	Braun	4095111	
Syringe with needle 1 mL	Pic solution	3,071,260,300,320	Use without needle

Plastic feeding tubes 18 ga x 50 mm	2biological instruments snc	FTP-18-50	Cut obliquely the tip
-------------------------------------	-----------------------------	-----------	-----------------------