

Materials List for

Intravital Two-Photon Microscopy of the Transplanted Mouse Lung

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Materials

Name	Company	Catalog Number	Comments
0.75% povidone-iodine	Aplicare	NDC 52380-0126-2	For disinfectant
1-inch 20G IV catheter	Terumo	SROX2025CA	For endotracheal tube (ETT)
1-inch silk tape	Durapore	3M ID 7100057168	To secure mouse in position
20x water immersion long objective lens	Olympus	N20X-PFH	
3M Vetbond glue	Medi-Vet.com	10872	To glue coverglass to lung
655 nm non-targeted quantum dots	ThermoFisher	Q21021MP	For labeling of blood vessels
70% ethanol	Sigma Aldrich	EX0281	For disinfectant
Argent High Temp Fine Tip Cautery Pen	McKesson	231	
Black O ring (2 cm)	Hardware store	N/A	For custom-built imaging chamber
Bolt (2)	Hardware store	N/A	For custom-built imaging chamber
Brass thumb nut (2)	Hardware store	N/A	For custom-built imaging chamber
Buprenorphine 1.3 mg/mL	Fidelis Animal Health	NDC 86084-100-30	For pain control
Chameleon titanium-sapphire femtosecond pulsed laser	Coherent	N/A	
Cover glass (24 mm x 50 mm)	Thomas Scientific	1202F63	For custom-built imaging chamber
Curved mosquito clamp (1)	Fine Science Tools	13009-12	
Dual channel heater controller	Warner Instruments	TC-344B	
Fine scissors (1)	Fine Science Tools	15040-11	
Fixed-stage upright microscope	Olympus	BX51WI	
Gauze (cut to 1 cm x 3 cm)	McKesson	476709	To place under left lung
High vacuum grease	Dow Corning	N/A	To adhere coverglass onto top plate
Isoflurane 1%	Sigma Aldrich	26675-46-7	For anesthesia
Ketamine hydrochloride 100 mg/mL	Vedco	NDC 50989-996-06	For anesthesia
Metal sheet (3 cm x 7 cm)	Hardware store	N/A	For custom-built imaging chamber

Pointed cotton-tipped applicators	Solon	56225	To manipulate lung and for blunt dissection
Power Pro Ultra clipper	Oster	078400-020-001	
Puralube Vet eye ointment	Medi-Vet.com	11897	To prevent eye dessiccation
Small animal ventilator	Harvard Apparatus	55-0000	
Straight forceps (1)	Fine Science Tools	91113-10	
Three channel shutter driver	Uniblitz	VMM-D3	Resonant scanner
x.y.z optical stepper motor	Prior Scientific	OptiScan II	
Xylazine 20 mg/mL	Akorn	NDC 59399-110-20	For pain control