

Materials List for:

Long-term High-Resolution Intravital Microscopy in the Lung with a Vacuum Stabilized Imaging Window

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Materials

Name	Company	Catalog Number	Comments
Nickel-Plated Brass Vacuum Regulator 1/8 NPT Female, w/ Gauge, 0 - 20" Hg Vacuum	McMaster Carr	4172K12	Vacuum Regulator
Brass Barbed Hose Fitting Adapter for 1/4" Hose ID X 1/8" NPTF Male Pipe	McMaster Carr	5346K13	Vacuum Regulator Hose Adapter
Pyrex Brand Filtering Flasks with Tubulation; Neck tooled for rubber stopper No. 4; Capacity: 50 ml	Corning Life Sciences Glass	5360-50	Vacuum Flask
Round Glass Coverslips Thickness #1.5, 0.16 - 0.19 mm 10 mm dia.	Ted Pella, Inc.	260368	Cover slips
Exel International Disposable Safelet I.V. Catheters; 22 g x 1 in.	Exel International	26746	Tracheal Catheter
PERMA-HAND Black Braided Silk Sutures, ETHICON LIGAPAK Dispensing Reel Size 2-0	VWR	95056-992	String
Liquid Super Glue, Clear, 0.14 oz	Hendel Corp.	LOC1647358	Cyano-acrylate Glue
Tetramethylrhodamine isothiocyanate-Dextran	Sigma-Aldrich	T1287-500MG	155 kD Dextran
Laboratory Clear Tygon PVC Tubing, 1/16" ID, 1/8" OD, 1/32" Wall Thickness, 25 ft. Length	McMaster Carr	5155T12	Thin Tubing & Tubing for Luer
Crack-Resistant Polyethylene Tubing, 1/8" ID, 1/4" OD, 1/16" Wall Thickness, White, 50 ft. Length	McMaster Carr	5181K24	Thick Tubing
Depilatory Lotion	Nair	-	
Micro Medical Tubing 95 Durometer LDPE	Scientific Commodities Inc.	BB31695-PE/1	Tubing for tail vein catheter
30 G x 1 in. BD PrecisionGlide Needle	BD	305128	Needles for tail vein catheter
Puritan Nonsterile Cotton-Tipped Swabs	Fisher Scientific	867WCNOGLUE	
Clear Polycarbonate Barbed Tube Fitting, Reducing Straight for 3/32" x 1/16" Tube ID	McMaster Carr	5117k51	Connectors between tubes
One-Hole Rubber Stoppers	Fisher Scientific	14-135F	Stopper for Vacuum Flask
SHARP Precision Barrier Tips, For P-100, 100 µl	Denville Scientific Inc.	P1125	Pipette Tip

Laboratory tape	Fisher Scientific	159015R	
Puralube	Henry Schein Animal Health	008897	Ophthalmic Ointment
Gemini Cautery Kit	Harvard Apparatus	726067	Cautery Pen
Graefe Micro Dissecting Forceps; Serrated; Slight Curve; 0.8 mm Tip Width; 4" Length	Roboz Surgical	RS-5135	Forceps
Extra Fine Micro Dissecting Scissors 4" Straight Sharp/Sharp 24 mm	Roboz Surgical	RS-5912	Sharp Scissors
Micro Dissecting Scissors 4" Straight Blunt/Blunt	Roboz Surgical	RS-5980	Blunt Scissors
Wipes	Fisher Scientific	06-666-A	Harness
PhysioSuite System	Kent Scientific	PhysioSuite	Vitals Monitor
1 ml Syringe, Tuberculin Slip Tip	BD	309659	Syringe
Cyano acrylate	Staples	LOC1647358	Cover Slip Adhesive
Petroleum Jelly	Fisher Scientific	19-086291	Water Barrier
Adapter Luer Cannula 1.5 - 2.2 mm	Harvard Apparatus	734118	Catheter Connector
PhysioSuite MouseSTAT pulse oximeter	Kent Scientific		Pulse Oximeter
Isoethesia (isoflurane)	Henry Schein Animal Health	50033	250 ml
Oxygen	TechAir	OX TM	
1x PBS	Life Technologies	10010-023	
PVC Ball Valve, Push to Connect, 1/4 In	Grainger	3CGJ7	Vacuum Valve
Small Animal Ventilator	Harvard Apparatus	683	Alternative is available from Kent Scientific: MouseVent
OptiMEM Reduced Serum Medium	ThermoFisher Scientific	31985062	
Lipofectamine 2000 Transfection Reagent	ThermoFisher Scientific	11668019	
MacBlue Tg(Csf1r*-GAL4/VP16,UAS-ECFP)1Hume/J Mice	Jackson Laboratory	026051	
Multiphoton Microscope	Olympus	Fluoview FV1000	Alternative to custom built scope
Environmental Enclosure	Precision Plastics	Chamber for FV1000	Alternative to custom built enclosure
Phosphate Buffered Saline	ThermoFisher Scientific	14190136	
Laser Power Meter	Coherent	FieldMaxII TOP	
Laser Power Meter Head	Coherent	PM10	
pcDNA3-Clover Fluorescent Protein Vector	Addgene	40259	
G418 Sulfate Selective Antibiotic	ThermoFisher Scientific	10131027	
MoFlo Fluorescent-Activate Cell Sorter	Beckman Coulter	XDP	
Trypsin EDTA 1x	Corning	25-052-CI	
40 µm Mesh	Falcon	352235	
96 Well Plate	Costar	3599	
60 mm Culture Dish	Corning	430196	
10 cm Culture Dish	Corning	353003	
Bovine Serum Albumin	Sigma-Aldrich	A4503	
Dulbecco's Phosphate Buffered Saline 1x	Corning	21-031-CV	

C57BL/6J Mouse	Jackson Laboratory	000664	
Kim Wipes	Fisher Scientific	06-666-A	