

Intravital Widefield Fluorescence Microscopy of Pulmonary Microcirculation in Experimental Acute Lung Injury Using a Vacuum-Stabilized Imaging System

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Materials

Name	Company	Catalog Number	Comments
1 mL BD Luer Slip Tip Syringe sterile, single use	Becton, Dickinson and Company	309659	1 mL syringe
ADSON Dressing Forceps, Tip width 0.6 mm, teeth length 11.5 mm, 12 cm	RWD Life Science Co.	F12002-12	Blunt forceps
Albumin-Fluorescein Isothiocyanate	Sigma-Aldrich	A9771-1G	FITC-albumin
Alcohol Swab Isopropyl Alcohol 70% v/v	Canadian Custom Packaging Company	80002455	Alcohol wipe
AVDC110 Advanced Digital Video Converter	Canopus	00631069602029	Digital video converter
B/W - CCD - Camera	Horn Imaging	BC-71	Camera
Bovie Deluxe High Temperature Cautery Kit	Fine Science Tools	18010-00	Cauterizer
C57BL/6 Mice	Charles River Laboratories International	C57BL/6NCrl	C57BL/6 Mice
Cotton Tipped Applicators	Puritan	806-WC	Cotton applicator
CS-8R 8mm Round Glass Coverslip	Warner Instruments	64-0701	Glass coverslip
Digital Pressure Gauge	ITM Instruments Inc.	DG2551L0NAM02L0IM&V	Digital Pressure Gauge
Dr Mom Slimline Stainless LED Otoscope	Dr. Mom Otoscopes	1001	Otoscope
Ethyl Alcohol 95% Vol	Commercial Alcohols	P016EA95	95% ethanol
Fine Scissors - Martensitic Stainless Steel	Fine Science Tools	14094-11	Scissors
Fisherbrand Colored Labeling Tape	Fisher Scientific	1590110	Labeling tape

Gast DOA-P704-AA High-Capacity Vacuum Pump	Cole-Parmer Canada Company	ZA-07061-40	Vacuum pump
Hartman Hemostats	Fine Science Tools	13003-10	Hemostatic forceps
High Vacuum Grease	Dow Corning	DC976VF	Vacuum grease
Isoflurane USP	Fresenius Kabi	CP0406V2	Isoflurane
LIDOcaine HCl Injection 1% 50 mg/5 mL	Teligent Canada	0121AD01	Lidocaine HCl 1%
Lung SurgiBoard	Luxidea, Inc.	IMCH-0001	Designed for intravital microscopy of the lung
Mineral Oil	Teva Canada	00485802	Mineral oil
Mouse Endotracheal Intubation Kit	Kent Scientific Corporation	ETI-MSE	Intubation stand, anesthesia mask, 20 G endotracheal cannula, fibre optic cable
MST49 Fluorescence Microscope	Leica Microsystems	10 450 022	Fluorescence Microscope
N Plan L 20x/0.40 Long Working Distance Microscope Objective	Leica Microsystems	566035	20x objective
Non-Woven Sponges 2" x 2"	AMD-Ritmed	A2101-CH	Gauze
Optixcare Eye Lube Plus	Aventix	5914322	Tear gel
Original Prusa i3 MK3S+ 3D Printer	Prusa Research	PRI-MK3S-KIT-ORG-PEI	3D printer
Oxygen, Compressed	Linde Canada Inc.		Oxygen
PrecisionGlide Needle 30 G x 1/2 (0.3 mm x 13 mm)	Becton, Dickinson and Company	305106	30 G needle
Pyrex 5340-2L 5340 Filtering Flasks, 2000 mL	Cole-Parmer Canada Company	5340-2L	Vacuum flask
Rhodamine 6 G	Sigma-Aldrich	252433	Rhodamine 6G
Secure Soft Cloth Medical Tape - 3"	Primed	PM5-630709	Cloth tape
Silastic Medical Grade Tubing .040 in. ID x .085 in. OD	Dow Corning	602-205	1.0 mm I.D. polyethylene tubing
Somnosuite Low-Flow Anesthesia System	Kent Scientific Corporation	SS-01, SS-04-module	Small rodent ventilator, Low-flow anesthesia system, Heating pad, Rectal temperature probe, Pulse oximeter
Tissue Forceps, 12.5cm long, Curved, 1 x 2 Teeth	World Precision Instruments	501216	Toothed forceps
Transpore Medical Tape, 1527-1, 1 in x 10 yd (2.5 cm x 9.1 m)	3M	7000002795	Medical tape
Tubing,Clear,3/8 in Inside Dia.	Grainger Canada	USSZUSA-HT3314	1.0 cm I.D. polyethylene tubing
Whatman 6720-5002 50 mm In-Line Filters, PTFE, 0.2 µm	Cole-Parmer Canada Company	6720-5002	Inline 0.2µm filter