

Materials List for

A Label-Free Segmentation Approach for Intravital Imaging of Mammary Tumor Microenvironment

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Materials

Name	Company	Catalog Number	Comments
#1.5 12mm round cover glass	Warner Instruments	# 64-0712	MIW construction
1.0 mL syringe for SQ injection	BD	309659	Syringe
20x objective	Zeiss	421452-988	Water immersion
27G needle for SQ injection	Covidien	1188827012	Needle
40x objective	Nikon	MRD77410	Water immersion
5-0 silk braided suture	Ethicon	K870	Suture for MIW implantation
Artificial tears gel	Akorn	NDC 59399-162-35	Eye gel
Betadine solution, 5%	Fisher Scientific	NC1558063	Surgery antiseptic
cotton-tipped applicator	Fisher Scientific	23-400-101	
Cyanoacrylate adhesive	Loctite	1365882	MIW construction
fluorescent dextran	Sigma	T1287-50mg	intravenous labelling of vasculature
forceps	Mckesson.com	Miltex #18-782	stainless, 4 inch, curved
GaAsP photomultiplier tube	Hamamatsu		
heating blanket	CARA 72 heating pad	038056000729	Temperature selectable
heating chamber	home built		
Fluorescent lifetime handbook	Becker and Hickl		https://www.becker-hickl.com/literature/handbooks
inverted microscope base	Nikon		
Isoflurane	Akorn	NDC 59399-106-01	Anesthesia
Liqui-Nox	Fisher Scientific	16-000-125	MIW cleaning
Meloxicam	Norbrook	NDC 55529-040-10	Analgesic
Micro Hose	Scientific Commodities INC.	BB31695-PE/1	
multiphoton scan head	Bruker Ultima II		Multiphoton scanhead and imaging platform
NADH FLIM filter	Chroma	284994	ET 440/80 m-2P
Nair	CVS	339826	Depilatory cream
objective heater	Tokai Hit	STRG-WELSX-SET	

SHG/FAD filter	Chroma	320740	ET450/40m-2P
Sparkle glass cleaner	Amazon.com	B00814ME24	Glass Cleaner for implanted MIW
SPC-150 photon counting board	Becker and Hickl		
surgical light	FAJ	B06XV1VQVZ	Magnetic LED gooseneck light
surgical micro-scissors	Excelta	366	stainless, 3 inch
Triple antibiotic ointment	Actavis Pharma	NDC 0472-0179-34	Antibiotic
TV catheter	Custom	BD 30G needle: 305106	Catheter for TV injection
Two photon filter	Chroma	320282	ET585/65m-2P
two-photon laser	Coherent charmeleon		Tunable multiphoton laser
ultrasound gel	Parker	PKR-03-02	Water immersion gel
Urea crystals	Sigma	U5128-5G	Optional: FLIM IRF