

Multiphoton Intravital Imaging for Monitoring Leukocyte Recruitment during Arteriogenesis in a Murine Hindlimb Model

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Materials

Name	Company	Catalog Number	Comments
1.0 mL Syringe	BD Biosciences, San Jose, CA, USA	309628	syringe for injection
3M Durapore Surgical Tape 1538-0	3M, St. Paul, MN, USA	1538-0	fixation tape
Atipamezole	Zoetis, Berlin, Germany		antagonize anesthesia
Buprenorphine	Reckitt Benckiser Healthcare, Slough, UK		antagonize anesthesia
C57/B6J mouse	Charles River, Sulzfeld, Germany		used animals for surgery/imaging
CD41-FITC ab	Biolegend	133904	Platelet labeling in vivo
CD45-PE ab	Biolegend	368510	Leukocytes labelling in vivo
Disinfectant Cutasept	Carl Roth GmbH, Karlsruhe, Deutschland	AK64.2	Disinfection
Eye cream (Bepanthen)	Bayer Vital GmbH	5g	
Fentanyl	CuraMED Pharma, Karlsruhe, Germany		anesthesia
Flumazenile	Inresa Arzneimittel GmbH, Freiburg, Deutschland		antagonize anesthesia
Fine bore polythene tubing	Smiths medical	Lot 278316	0.28 mm ID and 0.61 mm OD, tubing for the vein catheter
Histoacryl flexible	BRAUM	1050052	tissue glue
Imaris software	Oxford Instruments	version 9.2	Used for cell tracking, cell speed analysis, 3D projection
Laser Doppler Imaging instrument	Moor LDI 5061 and Moor Software Version 3.01, Moor Instruments, Remagen, Germany		
LEICA KL300 LED	Leica, Solms, Germany		light for microscope

Leica M60	Leica, Solms, Germany		microscope for surgery
LEICA MC120 HD	Leica, Solms, Germany		camera for microscope
Medetomidine	Pfizer Pharma, Berlin, Germany		anesthesia
Midazolam	Ratiopharm GmbH, Ulm, Germany		anesthesia
Multiphoton microscope	Lavision	TRIMScope II	WL 820 nm
NaCl 0.9%	Braun, Melsungen, Deutschland	3570310	saline for pocket
Naloxone	Inresa Arzneimittel GmbH, Freiburg, Deutschland		antagonize anesthesia
Needle 30 G	BD Biosciences, San Jose, CA, USA	305128	needle for i.v. catheter
Silk braided suture (7-0)	Pearsalls Ltd., Taunton, UK	SUT-S 103	suture for femoral artery ligation
Ultrason Gel	SONOSID-ASID BONZ 250 mL	782012	gel for imaging
Vicryl 6.0 suture	Vicryl, Johnson&Johnson, New Brunswick, NJ, USA	NW-2347	suture to build pocket
VivoFollow drift correction software	Developed by Mykhailo Vladymyrov		Reference 9