

Materials List for:

# Quantification of Cerebral Vascular Architecture using Two-photon Microscopy in a Mouse Model of HIV-induced Neuroinflammation

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URL: <https://www.jove.com/video/53582>

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## Materials

Name	Company	Catalog Number	Comments
Leica Microscope	Leica Inc.	MZ8	
High Intensity Illuminator	Dolan-Jenner	180	
Heating Pad	Stryker	TP3E	
T/PUMP	Gaymar Industries, Inc.	TP-500	
TEC-4 Isoflurane Vaporizer	Datex Ohmeda	447	
Artificial Tear Gel	Butler AHS	7312	
Povidone-Iodine solution	Aplicare	52380-1855-9	
Extra Fine Bonn Scissors	Fine Science Tools	14084-08	
Dumot #5 Forceps	Fine Science Tools	11295-10	
Dumont #5/45 Forceps	Fine Science Tools	11251-35	
Ferric Chloride Solution	Ricca Chemical Company	3120-16	
Loctite 454 Prism Instant Adhesive Gel	Henkel	45404	
Dental Cement	Stoelting	51459	
Microtorque II Handpiece Kit	Pearson Dental	R14-0002	
005 Burr for Micro Drill	Fine Science Tools	19007-05	
Norland Blade (Dental Microblade)	Salvin Dental	6900	
Urethane	Sigma-Aldrich	U2500	Group 2B Carcinogen
Braided Suture	Ethicon	735G	
Vannas Spring Scissors	Fine Science Tools	15000-03	
Arterial Catheter	SAI Infusion Technologies	MAC-01	The end of the catheter was manually stretched out in order to decrease its diameter.
Blood Pressure Monitor	World Precision Instruments	SYS-BP1	
Blood Pressure Transducer and Cable	World Precision Instruments	BLPR2	
RAPIDLab Blood Gas Analyzer	Siemens	248	
40 µl Capillary Tube	VWR	15401-413	
Texas Red-dextran (70,000 MW, 10 mg/kg dissolved in saline)	Invitrogen	D-1830	
Adult Mouse Brain Slicer Matrix	Zivic Instruments	BSMAS001-1	
Olympus Fluoview 1000 AOM-MPM Multiphoton Microscope	Olympus	FV-1000 MPE	
MaiTai HP DeepSee Ti:Sa laser	Spectra-Physics		

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ImageJ Software	National Institutes of Health (NIH)		Available at <a href="http://rsb.info.nih.gov/ij/download.html">http://rsb.info.nih.gov/ij/download.html</a>
Amira Software	Visage Imaging		