

Materials List for

Brain Pericyte Calcium and Hemodynamic Imaging in Transgenic Mice *In Vivo*

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jove.com/video/62725

Materials

Name	Company	Catalog Number	Comments
Acta2-RCaMP1.07	The Jackson Laboratory	28345	In the video protocol the animal model used is a female mouse of 10 months, 1 day old.
Applicators (Regular)	Bisco	X-80250P	
BioFormats package for MATLAB	NA	NA	Denominated in this protocol as "image processing packages". Available in: https://docs.openmicroscopy.org/bio-formats/
CHIPS MATLAB toolbox	NA	NA	Denominated in this protocol as "image processing algorithms". Barrett MJP, Ferrari KD, Stobart JL, Holub M, Weber B. CHIPS: an Extensible Toolbox for Cellular and Hemodynamic Two-Photon Image Analysis. <i>Neuroinformatics</i> . 2018;16(1):145-147. doi:10.1007/s12021-017-9344-y. Available in: https://github.com/EIN-lab/CHIPS
Clear Ultrasound Gel, Medium viscosity	HealthCare Plus	UGC250	
Dextran, fluorescein, 70,000 MW, anionic	Thermo Fisher Scientific	D1823	
Dextran, Texas Red, 70,000 MW, neutral	Thermo Fisher Scientific	D1830	
Eye Lube Plus	Optixcare	NA	
FIJI	Image J	NA	Denominated in this protocol as "image processor software". Available in: https://imagej.net/Fiji/Downloads
GCaMP6sfl/fl	The Jackson Laboratory		
Head Post fixing platform	University of Zurich	NA	
Ketamine (Narketan 100 mg/mL)	Vetoquinol	440893	

MATLAB R2020b		NA	Denominated in this protocol as "programming platform ". Available in: https://www.mathworks.com/downloads/
Needle 0.3mmx25mm	BD PrecisionGlide	305128	
Objective XLUMPLFLN20XW	Olympus	NA	https://www.olympus-lifescience.com/en/objectives/lumplfln-w/
PDGFR β -CreERT2	The Jackson Laboratory	30201	
Polyethylene Tubing, PE10 I.D. 28mm (0.11") O.D. 61mm (.024")	BD Intramedic	427401	
Prairie View	Bruker Fluorescence Microscopy	NA	https://www.bruker.com/en/products-and-solutions/fluorescence-microscopy/multiphoton-microscopes/ultima-in-vitro.html
Ultima In Vitro Multiphoton Microscope	Bruker Fluorescence Microscopy	NA	https://www.bruker.com/en/products-and-solutions/fluorescence-microscopy/multiphoton-microscopes/ultima-in-vitro.html
Under Tank Heater	Reptitherm U.T.H	E169064	
Xylazine (Rompun 20 mg/mL)	Bayer HealthCare	2169592	