

Materials List for

A Visual Approach for Inducing Dolichoectasia in Mice to Model Large Vessel-Mediated Cerebrovascular Dysfunction

Dominic Simpson^{1,2}, Christopher D. Morrone¹, Darcy Wear^{1,2}, Jose Gutierrez³, Wai Haung Yu²

¹Brain Health Imaging Centre, Centre for Addiction and Mental Health ²Department of Pharmacology and Toxicology, University of Toronto ³Department of Neurology, Columbia University

Corresponding Author

Dominic Simpson
Dominic.Simpson@camh.ca

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URL

jove.com/video/66792

Materials

Name	Company	Catalog Number	Comments
23 G catheter	University Medstore	2546-CABD305145	Needed for perfusion (https://www.uoftmedstore.com/index.sz)
Absolute ethanol	University Medstore	https://www.uoftmedstore.com/index.sz	For removing the microfil
Betadine scrub	#	https://www.pittsborofeed.com/products/betadine-surgical-scrub	Sterilization
Betadine solution	Amazon	https://www.amazon.ca/Povidone-Iodine-10-Topical-Solution-100ml/dp/B09DTKJGHW	Sterilization
Bupivacaine	Provided by animal facility	N/A	Analgesic
Clippers	BrainTree Scientific Inc	CLP-41590	Shave fur
Cotton Q-tip	University Medstore	1962	For surgery (https://www.uoftmedstore.com/index.sz)
Elastase	Sigma-aldrich	E7885	Used for the dilatation of blood vessel
Ethanol	University Medstore	39752-P016-EAAN	Sterilization (https://www.uoftmedstore.com/index.sz)
Goat anti-mouse 568	Invitrogen	A11004	For staining mature neurons
Graphpad prism 10	Graphpad prism 10	https://www.graphpad.com/	Statistical analysis software
Hamilton syringe	Sigma-aldrich	28614-U	Injection elastase
Heat pad	Amazon	https://www.amazon.ca/iPower-Temperature-Controller-Terrarium-Amphibians/dp/B08L4DBFFZ	Maintain body temperature
ImageJ software	Fiji Imagej software	imagej.net (USA)	Image analysis software
Induction chamber	Provided by animal facility	N/A	Anesthesia induction
Metacam	Provided by animal facility	N/A	Analgesic
Methyl salicylate	Sigma-aldrich	M6752	For removing the microfil
Microfil	Flow Tech, Carver, Massachusetts	https://www.flowtech-inc.com/order/	Dye (yellow)

Mouse monoclonal anti-NeuN	Millipore Sigma	MAB377	For staining mature neurons
Olympus VS200 slide scanner and VSI software.	Olympus Life Science	https://www.olympus-lifescience.com/en/downloads/detail-iframe/?0[downloads][id]=847254104	Imaging software
Paraformaldehyde	University Medstore	PAR070.1	For protein fixation (https://www.uoftmedstore.com/index.sz)
Perfusion pump	VWR International	https://pr.vwr.com/store/product/4787969/vwr-variable-speed-peristaltic-pumps	Needed for perfusion
Scalpel	University Medstore	2580-M90-10	For surgery (https://www.uoftmedstore.com/index.sz)
Stereotaxic	Provided by animal facility	N/A	So secure the animal for surgery
Surgical scissor	University Medstore	22751-A9-240	For surgery (https://www.uoftmedstore.com/index.sz)
Surgical tape	University Medstore	https://www.amazon.ca/3M-Micropore-Tape-1530-2-Rolls/dp/B0082A9GS2	Secure the animal on the diaper
Sutures	University Medstore	2297-VS881	For surgery (https://www.uoftmedstore.com/index.sz)
X2 tweezers	University Medstore	7731-A10-612	For surgery (https://www.uoftmedstore.com/index.sz)