

Materials List for:

# In Vivo Dynamics of Retinal Microglial Activation During Neurodegeneration: Confocal Ophthalmoscopic Imaging and Cell Morphometry in Mouse Glaucoma

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URL: <https://www.jove.com/video/52731>

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## Materials

Name	Company	Catalog Number	Comments
DBA/2J and CX3CR1-GFP/+ mice	The Jackson Laboratory, Bar Harbor, ME	000671 and 00582	Mice are bred in house, introducing new breeders every 3 - 4 generations to prevent genetic drift.
30½ G needle and 1 ml tuberculin slip-tip syringe	BD, East Rutherford, NJ	305106 and 309659	
2,2,2-tribromoethanol, tert-Amyl alcohol 99% and phosphate buffer saline tablets	Sigma-Aldrich, St. Louis, MO	T48402, 152463 and P4417	Avertin solution (pH 7.3, sterile filtered) must be freshly made solution or stored at 4 °C for up to 1 week.
Heat therapy T/Pump	Gaymar Industries, Orchard Park, NY	TP-650	
Cotton-tipped applicators	Fisher Scientific, Pittsburgh, PA	23-400-100	
Tropicamide 1%	Bausch & Lomb, Rochester, NY	NDC 24208-585-64	
PMMA contact lenses, 1.70 base curve, 3.2 mm total diameter, 0.40 mm thick center	Cantor & Nissel Ltd., Northamptonshire, UK	G003709	Lenses are rinsed with sterile PBS and stored in polypropylene boxes.
HRA/Spectralis confocal scanning laser ophthalmoscope and Eye Explorer software	Heidelberg Engineering GmbH, Carlsbad, CA	Version 1.7.1.0	
PowerPoint	Microsoft, Redmond, WA	Version 14.4.3	
Adobe Photoshop	Adobe, San Jose, CA	Version CS3	
FluoRender	Scientific Computing and Imaging Institute, University of Utah	Version 2.13	Freeware. <a href="http://www.sci.utah.edu/software/13-software/127-fluorender.html">http://www.sci.utah.edu/software/13-software/127-fluorender.html</a>
NIS-Elements C	Nikon, Melville, NY	Version 4.30.01	