

Materials List for:

# Intravital Video Microscopy Measurements of Retinal Blood Flow in Mice

Norman R. Harris<sup>1</sup>, Megan N. Watts<sup>1</sup>, Wendy Leskova<sup>1</sup>

<sup>1</sup>Department of Molecular & Cellular Physiology, Louisiana State University Health Sciences Center

Correspondence to: Norman R. Harris at [nharr6@lsuhsc.edu](mailto:nharr6@lsuhsc.edu)

URL: <https://www.jove.com/video/51110>

DOI: [doi:10.3791/51110](https://doi.org/10.3791/51110)

## Materials

Name	Company	Catalog Number	Comments
Fluorescent microspheres	Bangs Laboratories	FS04F/10584 (green)	
High molecular weight fluorescent dextran	Molecular Probes	D-7137 (green); D-7139 (red)	
Microscope system	Nikon	Eclipse E600FN + attachments	
4X objective	Nikon	Plan Fluor 4X	numerical aperture 0.13; working distance 17.2 mm
10X objective	Nikon	Plan 10X	numerical aperture 0.25; working distance 10.5 mm
Tropicamide ophthalmic solution	Bausch Lomb	1% Tropicamide	
Hypromellose ophthalmic solution	HUB Pharmaceuticals	2.5% Goniovisc	
Image processing software	University of California San Francisco Vale Lab	Micro-Manager	
Digital video camera for microscopy	Photometrics	CoolSnap ES	1392 x 1040 pixel resolution; pixel size 6.45 x 6.45 µm