

Materials List for

# Live-Cell Imaging of *Drosophila melanogaster* Third Instar Larval Brains

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jove.com/video/65538

## Materials

Name	Company	Catalog Number	Comments
0.22 µm polyethersulfone (PES) Membrane	Genesee	25-231	Vacuum-driven filters
Agar	Genesee	20-248	granulated agar
Analytical Computer	Dell	NA	Intel Xeon Gold 5222 CPU with two 3.80 GHz processors running Windows 10 on a 64-bit operating system
Bovine Growth Serum	HyClone	SH30541.02	
Chambered Imaging Slides	Ibidi	80826	
Confocal Microscope	Nikon	NA	
Custom-machined metal slide	NA	NA	See Cabernard and Doe 2013 (Ref. 34) for specifications
Dissection Dishes	Fisher Scientific	5024343	3-well porcelain micro spot plate
Dissection Forceps	World Precision Instruments	Dumont #5	
Dissection Microscope	Leica	NA	
Dissection Scissors	Fine Science Tools (FST)	15003-08	
Embryo collection cage	Genesee	59-100	
Flypad with access to CO2 to anesthetize adult flies	Genesee	59-172	
Gas-permeable membrane	YSI	98095	Gas-permeable membrane
Glass Cover Slides	Electron Microscopy Sciences	72204-03	# 1.5; 22 mm x 40 mm glass coverslips
Imaris	Oxford Instruments	NA	Alternatives: Fiji, Volocity, Aivia
Imaris File Converter	Oxford Instruments	NA	
Instant Yeast	Saf-Instant	NA	
Molasses	Genesee	62-117	
Petri dish	Greiner Bio-One	628161	60 mm x 15 mm Petri dish
Petroleum Jelly	Vaseline	NA	
Schneider's Insect Medium with L-glutamine and sodium bicarbonate liquid	Millipore Sigma	S0146	

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SlideBook acquisition software	3i	NA	
Vacuum-Driven Filtration Unit with a 0.22 $\mu\text{m}$ PES membrane filter	Genesee Scientific, GenClone	25-231	