

Materials List for:

Upright Imaging of *Drosophila* Egg Chambers

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Materials

Name	Company	Catalog Number	Comments
0.1 M Potassium phosphate Buffer (KPO ₄ Buffer)			Add 3.1 g of NaH ₂ PO ₄ ·H ₂ O and 10.9 g of Na ₂ HPO ₄ (anhydrous) to distilled H ₂ O to make a volume of 1 L. The pH of the final solution will be 7.4. This buffer can be stored for up to 1 month at 4°C.
16% Paraformaldehyde aqueous solution, EM grade	Electron Microscopy Sciences	15710	methanol-free to preserve GFP fluorescence
30G x 1/2 inch needle	VWR	BD305106	Regular bevel
Active Dry Yeast	Genesee Scientific	62-103	To fatten female flies
Bovine Serum Albumin	PAA-cell culture company	A15-701	Used in NP40 Wash Buffer
Dumont #5 Forceps	Fine Science Tools	11295-10	Dumostar alloy, biologie tip; sharp tips are essential for ovariole dissection
DAPI (4',6-Diamidino-2-phenylindole dihydrochloride)	Sigma Aldrich	D9542	5 mg/ml stock solution
Fetal Bovine Serum (FBS)	Life Technologies	16140-071	Added to supplement dissection medium (10%)
Glass culture tube	VWR	47729-576	14 ml
Glass Depression Slides	VWR	470019-020	1.2 mm Thick, Double Cavity
Glycerin Jelly	Electron Microscopy Sciences	17998-10	Mounting media
Glycerol	IBI Scientific	IB15760	70% in PBS
IGEPAL CA-630	Sigma Aldrich	I3021-500ML	(interchangeable for Nonidet P-40) Used in NP40 Wash Buffer
Leica Fluorescent Stereoscope	Leica Microsystems		
Leica SP5 Confocal Microscope	Leica Microsystems		40x/0.55NA dry objective
Micro spatula	VWR	82027-518	Stainless steel
Microscope Slide	VWR	16004-368	75x25x1 mm
NP40 Wash Buffer			50 mM TRIS-HCl, 150 mM NaCl, 0.5% Ipegal, 1 mg/ml BSA, and 0.02% sodium azide
Penicillin-Streptomycin-Glutamine	Life Technologies	10378-016	Added to supplement dissection medium (0.6X)
Petridish- Polysterine, sterile	VWR	82050-548	60 W x 15 H mm
Phosphate Buffer Saline	Sigma Aldrich	P3813-10PAK	10 packs of Powder
Potassium phosphate dibasic	Sigma Aldrich	P3786-500G	Used in 0.1 M KPO ₄ Buffer
Potassium phosphate monobasic	Sigma Aldrich	P9791-500G	Used in 0.1 M KPO ₄ Buffer
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Schneider's Insect Medium	Life Technologies	11720018	With L-glutamine and sodium bicarbonate

Sodium azide	Sigma Aldrich	S2002-25G	Used in fluorescent antibody staining
Sodium chloride	Sigma Aldrich	S3014-500G	Used in NP40 Wash Buffer
TRIS-HCl	IBI Scientific	IB70144	1 M TRIS-HCl, pH 7.4
Volocity 3D Image Analysis Software	PerkinElmer		For processing confocal Z-stacks