

Materials List for:

# Methods for Imaging Intracellular pH of the Follicle Stem Cell Lineage in Live *Drosophila* Ovarian Tissue

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## Materials

Name	Company	Catalog Number	Comments
<b>Fly Stocks</b>			
UAS-mCherry::pHluorin[1]			
y1 w <sup>*</sup> ;P{GawB}10930/CyO	Bloomington Stock Center	7023	
Act-Gal4 flipout stock	Bloomington Stock Center	4409	
<b>Chemicals for Buffer preparation</b>			
NaCl	Sigma Aldrich	S5886	
KCl	Sigma Aldrich	P-3911	
glucose	Mallinckrodt	4912	
HEPES	Thermo Fisher Scientific	BP310	
MgSO4	Thermo Fisher Scientific	M63	
CaCl2	Sigma Aldrich	C-5080	
HCO3	Sigma Aldrich	S-5761	
MgCl2	Sigma Aldrich	M-9272	
NMDG+	Sigma Aldrich	M-2004	
K2HPO4	Mallinckrodt	7088	Use to Make KHPO4 pH 7.4
KH2PO4	Thermo Fisher Scientific	BP362	Use to Make KHPO4 pH 7.4
Concanavalin A, Alexa Fluor 647 Conjugate	Thermo Fisher Scientific	C21421	0.25 mg/ml dilution
Nigericin	Thermo Fisher Scientific	N1495	
<b>Dissection and mounting tools</b>			
2 Dumont Inox forceps (Size 5)	Thermo Fisher Scientific	NC9473431	
2 23-gauge syringe needles	Sigma Aldrich	Z192457	
9-well glass dissecting dish	Thermo Fisher Scientific	13-748B	
Vacuum Grease	Dow Corning	1018817	
22 X 40 mM glass coverslips	Thermo Fisher Scientific	12545C	
Round Glass Coverslips, 12mm diameter, 0.13-0.16mm thickness	Ted Pella, Inc.	26023	
3-D mounting chamber	custom manufactured		.stl and .ipt files for 3-D printer included as supplemental files
<b>Other equipment</b>			
pH meter	Thermo Fisher Scientific	13-620-183A	Model: Accumet AB15
Dissection microscope	Olympus Corporation	0H11436	Model: SZ2-ST

Confocal Microscope	Leica Biosystems		SP5 or SP8 laser-scanning confocal microscope with a 40× objective with a numerical aperture of 1.3
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