

Materials List for:

A *Drosophila* Model to Study Wound-induced Polyploidization

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URL: <https://www.jove.com/video/61252>

DOI: [doi:10.3791/61252](https://doi.org/10.3791/61252)

Materials

Name	Company	Catalog Number	Comments
35 mm Petri dishes	Fisher Scientific	FB0875713	For creating plates to dissect in
50 mL Conical Centrifuge Tubes	Fisher Scientific	14-432-22	For preparing staining reagents in
Axiolmager M2 with Apotome	Zeiss	NA	For imaging samples
Blowgun mini	Genesee Scientific	54-104M	For anesthetizing <i>D. melanogaster</i> strains
Bovine Serum Albumin, 30%	Sigma	A7284-500ML	For immuostaining
Carbon dioxide tank	various distributors	N/A	For anesthetizing <i>D. melanogaster</i> strains
Click-iT EdU 594 Kit	ThermoFisher	C10339	For EdU assay
Coverslips	ThermoFisher	3406	For mounting
DAPI	Sigma	D9542-10MG	For immuostaining
Dissecting Plates (use Sylgard 184 Sil Elastic Kit)	Ellsworth Adhesives	184SIL	For creating plates to dissect in. Mix epoxy as directed, let dry overnight
Donkey anti-Rabbit IgG (H+L) Secondary Antibody, Alexa Fluor 488 conjugate	ThermoFisher	A21206	For secondary immuostaining
Donkey anti-Rabbit IgG (H+L) Secondary Antibody, Alexa Fluor 568 conjugate	ThermoFisher	A10042	For secondary immuostaining
<i>Drosophila</i> tubing and fittings	Genesee Scientific	59-124C, 59-123, 59-140	For anesthetizing <i>D. melanogaster</i> strains
Dumont #5 Forceps	Fine Science Tools	11252-20	For dissecting
epi-Gal4	Bloomington <i>Drosophila</i> Stock Center (b)	b38793	Losick et al. Current Biology, 2013
epi-Gal4, UAS-mCD8.RFP	Bloomington <i>Drosophila</i> Stock Center (b)	b38793, b27392	Losick et al. Current Biology, 2013
Excel	Microsoft		For performing ploidy calculations
Fiji/ImageJ (image analysis software)	NIH	https://imagej.nih.gov/ij	For image analysis
Fly food	Archon Scientific	N/A	Corn Syrup/Soy food
Flystuff Flypad	Genesee Scientific	59-114	For anesthetizing <i>D. melanogaster</i> strains
Glass dissecting dish	Fisher Scientific	13-748B	For performing dissections in
Glass slides	Fisher Scientific	12-518-104C	For mounting
Goat anti-Mouse IgG (H+L) Secondary Antibody, Alexa Fluor 488 conjugate	ThermoFisher	A11001	For secondary immuostaining

Goat anti-Mouse IgG (H+L) Secondary Antibody, Alexa Fluor 568 conjugate	ThermoFisher	A11031	For secondary immunostaining
Grace's Insect Medium, unsupplemented	ThermoFisher	11595030	For dissecting in
Insect pins	Fine Science Tools	26002-10	For wounding and pinning fly abdomens flat
Mouse anti-Fasciclin III (Drosophila) Primary Antibody	Developmental Studies Hybridoma Bank	7G10	For immunostaining epithelial cell-cell junctions
Mounting media	Vector Laboratories	H-1000	Anti-fade mounting media to prevent photo bleaching during imaging
Nail polish	Electron Microscopy Sciences	72180	For sealing slides
Ortibal shaker	Fisher Scientific	02-217-988	For immunostaining
Phosphate Buffered Saline, PH 7.4	Sigma	P3813-10PAK	For staining
Pin holders	Fine Science Tools	91606-07	For wounding
Rabbit anti-Grainyhead Primary Antibody	N/A	N/A	For immunostaining epithelial nuclei. Protocol to make antibody can be found (Ref. #4 and 8)
Rabbit anti-RFP Primary Antibody	MBL	PM005	For immunostaining mCD8-RFP fly epithelium
Stereomicroscope	Olympus	SZ51	For dissecting and mounting fly tissue
Triton X-100	Sigma	10789704001	For immunostaining
UAS-E2F RNAi, UAS-RacDN	VDRRC (v) and Bloomington Drosophila Stock Center (b)	v108837, b6292	Losick et al. Current Biology, 2013
UAS-fzr RNAi, UAS-Stg	VDRRC (v) and Bloomington Drosophila Stock Center (b)	v25550, b56562	Grendler et al. Development, 2019
UAS-Myc	Bloomington Drosophila Stock Center (b)	b9674	Grendler et al. Development, 2019
UAS-myc RNAi	Bloomington Drosophila Stock Center (b)	b36123	Grendler et al. Development, 2019
Vannas Spring Scissors	Fine Science Tools	15000-00	For dissecting