

# Confocal and Super-Resolution Imaging of Polarized Intracellular Trafficking and Secretion of Basement Membrane Proteins During *Drosophila* Oogenesis

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jove.com/video/63778

## Materials

Name	Company	Catalog Number	Comments
Alexa Fluor 546 phalloidin	Invitrogen	A22283	F-Actin Stain (1/500 of 66µM)
Alexa Fluor 647 phalloidin	Invitrogen	A22287	F-Actin Stain (1/100 of 66µM))
Anti-GM130 Antibody	abcam	ab30637	For Golgi Stain (colocalization); use as concentration of 7µg/uL
Aqua-Polymount	Polysciences, Inc.	1860620	Mounting Medium
Bakers Yeast (Active Dry Yeast)	Genesee Scientific	62-103	To fatten the ovaries for dissection
Bovine Serum Albumin (30% solution)	Sigma-Aldrich	A7284	For blocking solution
Depression wells	Electron Microscopy Sciences	7156101	For dissection (glass concavity slide can be used instead)
Dissecting needle	Fisher scientific	13-820-024	
Drosophila Incubator	Genesee Scientific/Invictus		
Fly Stock: Perlecan-GFP <i>Drosophila</i> line (ZCL1700)			Morin et al., 2001
Fly Stock: UAS-Crag RNAi line (TRIP line HMS00241)	Bloomington Drosophila Stock Center	33594	RNAi against Crag
Fly Stock: Viking-GFP <i>Drosophila</i> line (CC00791)			Buszczak et al., 2007
Fly Stock: Vkg-GFP, tj-Gal4			Devergne et al., 2017. Drive the expression of Crag RNAi in the FE
Forceps (Dumont 5)	Fine Science Tools	11251-30	For dissection
Glass Concavity Slide	Electron Microscopy Sciences	7187804	For dissection (depression wells can be used instead)
Goat anti-Rabbit IgG, Alexa Fluor 568	Invitrogen	A11036	Secondary antibody (GM130 antibody) (5 µg/mL)
Hoechst (Hoechst 33342)	Invitrogen	H3570	DNA Stain (1 ug/mL)
Kimwipes	Kimtech	Fisher Scientific: 06-666	Delicate task wipers
Leica Fluorescent Stereo Microscope M165 FC	Leica		For ovary imaging

Microscope Slides	Corning	294875X25	Microscope Slides
Nutating platform rocker	Corning Life Sciences	6720	For ovary fixation and staining
Nutri-Fly BF	Genesee Scientific	66-121	Fly Food
Paraformaldehyde 20% Solution	Electron Microscopy Sciences	Fisher Scientific: 15713	For PFA 4%
Phosphate Buffered Saline Tablets	Fisher scientific	BP2944100	For PBS solution
ProLong Glass Antifade Mountant	Invitrogen	P36980	Mounting Medium
Square Cover Glass	Corning	285022	Cover glass for microscope slides
Triton x-100	Sigma-Aldrich	9036-19-5	For PBST
Zeiss LSM 900 with Airyscan 2	Zeiss		Confocal and super-resolution Microscope
Zeiss Stemi 305 Stereo Microscope	Zeiss		Dissecting microscope
Zeiss Zen Software version 3.3 (Blue Edition)	Zeiss		Image acquisition and processing