

Materials List for:

Live Confocal Imaging of Developing Arabidopsis Flowers

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Materials

Name	Company	Catalog Number	Comments
Forceps	Electron Microscopy Sciences	72701-D	Dumont Style 5 Inox, for apex dissection
Pin Vise	Ted Pella, Inc.	13560	80 cm long, for sepal ablation
Straight Stainless Steel Needles	Ted Pella, Inc.	13561-50	0.1 mm Diameter, 1.2 cm long, for sepal ablation
Round plastic boxes	Electron Microscopy Sciences	64332	transparent, 6 cm diameter, 2 cm deep, to use as dissecting dishes
Rectangular hinged boxes	Durphy Packaging Co.	DG-0730	transparent, 2-7/8" long, 2" wide, 1-1/4" deep, to use as imaging dishes with an upright microscope
Tissue Culture Dishes, Polystyrene, Sterile	VWR	25382-064	transparent, 3.5 cm diameter, 1 cm deep, to use as imaging dishes with an inverted microscope
P10 and P1000 pipettes			with corresponding filter tips
Stereomicroscope			with an 80-90X maximum magnification
Laser ablation system			for sepal ablation
Laser scanning confocal microscope system			
20 or 40X water-dipping lens			with a NA of 1 and a working distance of 1.7-2.5 mm
Agarose			
Sucrose			
Murashige and Skoog basic salt mixture	Sigma-Aldrich	M5524	without vitamins
Myo-inositol	Sigma-Aldrich	I7508	vitamin
Nicotinic acid	Sigma-Aldrich	N0761	vitamin
Pyridoxine hydrochloride	Sigma-Aldrich	P6280	vitamin
Thiamine hydrochloride	Sigma-Aldrich	T1270	vitamin
Glycine	Sigma-Aldrich	G8790	vitamin
N6-Benzyladenine	Sigma-Aldrich	B3408	BAP, a cytokinin
Propidium iodide solution	Sigma-Aldrich	P4864	1 mg/mL solution in water, to stain the cell walls
FM4-64	Invitrogen	F34653	dilute in water to 80 µg/mL, to stain the plasma membranes