

Materials List for:

Real-time *In Vivo* Recording of *Arabidopsis* Calcium Signals During Insect Feeding Using a Fluorescent Biosensor

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Materials

Name	Company	Catalog Number	Comments
35S::GCaMP3 <i>Arabidopsis</i>	John Innes Centre/University of Wisconsin	-	Step 1.1
100 mm ² square plastic plates	R & L Slaughter Ltd, Upminster, UK		For growing GCaMP plants (Step 1.1)
¼ strength Murashige and Skoog (MS) medium	homemade: 1.1 g Murashige and Skoog medium, 7.5 g sucrose, 10 g Formedium agar, 1 L de-ionised water	-	For growing GCaMP plants (Step 1.1)
Col-0 <i>Arabidopsis</i>	-	-	For growing aged aphid colony (Step 2.1)
<i>Myzus persicae</i> (Sulzer)	clone US1L, Mark Stevens, Brooms Barn	-	Originally from Rothamsted Research, UK (Step 2.1)
Artist's paintbrush size 2	Hobbycraft	610101	To transfer aphids (Steps 2.1, 2.4 and 4.6)
96-well Microtitre™ plate	ThermoFisher Scientific	2101	To contain the detached GCaMP3 leaves (Step 3.2)
Aluminium foil	Wrap Film Systems, Telford, UK	26B06	To cover plates with floating leaves overnight (Step 3.3)
Clear plastic wrap	SC Johnson & Son, Racine, WI, USA		To cover plates with floating leaves overnight, and to cover leaves during microscopy (Steps 3.3 and 4.7)
M205FA stereo microscope	Leica Microsystems	-	For GFP imaging (Step 4.1)
Leica Application Suite v3.2.0	Leica Microsystems		Microscope software (Step 4.1)
Fiji (Image J) v1.48a	National Institutes of Health, USA	-	For image analysis (Step 6.1)