

Materials List for:

***In vivo* Neuronal Calcium Imaging in *C. elegans***

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**Materials**

Name	Company	Catalog Number	Comments
Eclipse Ti-U inverted microscope	Nikon		
Intensilight HG Illuminator	Nikon	C-HGFI	Fluorescent light source
CFI Plan Apo VC 60X Oil	Nikon		
Optical table or 3'X3' optical grade breadboard	Thor Labs		If an optical table is not used an optical grade breadboard on a solid laboratory bench should suffice.
Clara Interline Camera	Andor Technology		High-sensitivity CCD camera
wtGFP Longpass Emission	Chroma Technology Corp.	41015	GFP filter set for imaging GCaMP
Filter 440 +/- 10 nm	Chroma	D440/20x EX	excitation filter for cameleon
Dichroic mirror > 455 nm longpass	Chroma	455DCLP BS	microscope dichroic for cameleon imaging
Dichroic mirror > 515 nm longpass	Chroma	515DCLP BS	dichroic mirror for cameleon imaging
Filter 535 +/- 15 nm	Chroma	D535/30m EM	YFP emission filter
Filter 480 +/- 20 nm	Chroma	D485/40m EM	CFP emission filter
Lens, 200 mm, Achromat	Thor Labs	AC508-200-A1	Relay lens for FRET optics (3)
Silver broadband mirror	Thor Labs	ME2S-P01	FRET optics (2)
NGM buffer			
Levamisole	Sigma		
Polybead Microspheres	Polysciences, Inc.	08691-10, 2.5% by volume, 50 nm diameter	polystyrene nanoparticles for <i>C. elegans</i> immobilization
Transgenic strain, Strain <i>gpa-9::GCaMP3(in pha-1; him-5 bkg)</i>	Sternberg Lab	Strain PS6388	
Transgenic strain, <i>mec-4::YC3.60</i>	Gabel Lab	Strain CG1B	