

Materials List for:

Imaging Membrane Potential with Two Types of Genetically Encoded Fluorescent Voltage Sensors

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Materials

Name	Company	Catalog Number	Comments
Inverted Microscope	Olympus	IX71	
60X objective lens (numerical aperture = 1.35)	Olympus	UPLSAPO 60XO	
Excitation filter	Semrock	FF02-472/30	For voltage imaging of super ecliptic pHLuorin in Bongwoori
Dichroic mirror	Semrock	FF495-Di03-25x36	
Emission filter	Semrock	FF01-497/LP	
75W Xenon arc lamp	CAIRN	OptoSource Illuminator	LEDs and lasers are also effective light sources
Slow speed CCD camera	Hitachi	KP-D20BU	
Dual port camera adaptor	Olympus	U-DPCAD	
High speed CCD camera	RedShirtImaging, LLC	NeuroCCD-SM	
Image splitter	CAIRN	Optosplit 2	
Excitation filter	Semrock	FF01-475/23-25	For voltage imaging of FRET pair based GEVI consisting of Clover and mRuby2)
Dichroic mirror	Semrock	FF495-Di03-25x36	
Emission filter	Chroma	ET520/40	
Dichroic mirror	Semrock	FF560-FDi01-25X36	
Emission filter	Chroma	ET645/75	
Vibration isolation system	Kinetic systems	250BM-IC, 5702E-3036-31	
Patching chamber	Warner instruments	RC-26G, 64-0235	
#0 Micro Coverglass (22 x 40 mm)	Electron Microscopy Sciences	72198-20	
Temperature controller	Warner instruments	TC-344B	
#0 (0.08 ~ 0.13 mm) - 10 mm diameter glass coverslip	Ted Pella	260366	
Lipofection agent	Life Technologies	11668-027	
Calcium phosphate reagent	Clontech - Takara	631312	
Patch clamp amplifier	HEKA	EPC 10 USB amplifier	
Multi-channel data acquisition software	HEKA	Patchmaster	
Image acquisition and analysis software	RedShirtImaging	Neuroplex	
Spreadsheet application software	Microsoft	Microsoft Excel 2010	

Data analysis software	OriginLab	OriginPro 8.6.0	
Demagnifier	Qioptiq LINOS	Optem standard camera coupler 0.38x SC38 J clamp	
Confocal microscope	Nikon	Nikon A1R confocal microscope	
Anti-fade reagent	Life Technologies	P36930	