

Materials List for:

Optical Imaging of Neurons in the Crab Stomatogastric Ganglion with Voltage-sensitive Dyes

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Materials

Name	Company	Catalog Number	Comments
MiCAM02	SciMedia		Imaging system
BVAna v.10.08	SciMedia		Data analysis software for the MiCAM 02 imaging system
HL-151	Moritex, Tokyo, Japan		Ultra-low ripple halogen light source
BX51 WI	Olympus Corporation		Upright microscope for epifluorescence imaging
20x imaging objective	Olympus Corporation	XLUMPLFL20XW/0.95	NA 0.95, WD 2.0mm
10x imaging objective	Olympus Corporation	UMPLFL10XW	NA 0.30, WD 3.3mm
Filter cube with 480-550 nm excitation filter and 590nm emission filter	Olympus Corporation	MSWG2	
Antivibration table	Scientifica Ltd	63-534	
PatchStar electrode manipulator	Scientifica Ltd	PS-7000C	Micro-electrode manipulator
CED Power 1401	Cambridge Electronic Design		Data acquisition board
DL708E Oscilloscope	Yokogawa		Intracellular amplifier
AC differential amplifier	University of Kaiserslautern, Germany		Extracellular amplifier
P-97 Flaming – Brown type electrode puller	Sutter Instrument Co.		Electrode puller
Sigma Microcentrifuge 1-14	Sigma-Aldrich		Centrifuge
Genex Pipettors Mline	Scientific Laboratory Supplies LTD	PIP7774	PIP7774
Glass micropipette with filament	Science Products	GB100TF 8P	Glass for micr–lectrodes
MicroFil – 34G	World Precision Instruments, Inc.		Microfil needle
Spike 2 v6.10	Cambridge Electronic Design		Electrophysiology software
Di-8-ANEPPQ	Cambridge BioScience	BT61014	Fluorescent voltage sensitive dye
F-127 Pluronic Acid, DMSO	Invitrogen	P-3000MP	Solvent
NaCl	Sigma-Aldrich	S9888	Crab saline component
CaCl ₂ · 2H ₂ O	Sigma-Aldrich	C3881	Crab saline component
KCl	Sigma-Aldrich	P3911	Crab saline component, electrolyte solution
MgCl ₂ · 6H ₂ O	Sigma-Aldrich	M9272	Crab saline component
Trizma base	Sigma-Aldrich	T1503	Crab saline component
Maleic acid	Sigma-Aldrich	M0375	Crab saline component
Elastosil RT-601	Wacker, Munich, Germany		Lining of Petri dishes