

Materials List for:

Flash Photolysis of Caged Compounds in the Cilia of Olfactory Sensory Neurons

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Materials

Name	Company	Catalog Number	Comments
Adapter module flash lamp to microscope	Rapp OptoElectronic	FlashCube 70	
Air table	TMC	MICRO-g 63-534	
Digitizer	Axon Instruments	Digidata 1322A	
Data Acquisition Software	Axon Instruments	pClamp 8	
Data Analysis Software	WaveMetrics	Igor	
Mirror for adapter module	Rapp OptoElectronic	M70/100	
Electrode holder	Axon Instruments	1-HL-U	
Faraday's cage	Custom Made		
Filter cube	Olympus Corporation	U-MWU	Excitation filter removed
Flash lamp	Rapp OptoElectronic	JML-C2	
Forceps Dumont #55	World Precision Instruments, Inc.	14099	
Glass capillaries	World Precision Instruments, Inc.	PG10165-4	
Glass bottom dish	World Precision Instruments, Inc.	FD35-100	
Illuminator	Olympus Corporation	Highlight 3100	
Inverted microscope	Olympus Corporation	IX70	
Micromanipulators	Luigs & Neumann	SM I	
Micropipette Puller	Narishige International	PP-830	
Monitor	HesaVision	MTB-01	
Neutral density filters	Omega Optical	varies	
Objective 100X	Carl Zeiss, Inc.	Fluar 440285	Either Zeiss or Olympus
Objective 100X	Olympus Corporation	UPLFLN 100XO12	Either Zeiss or Olympus
Optical UV shortpass filter	Rapp OptoElectronic	SP400	
Patch-clamp amplifier	Axon Instruments	Axopatch 200B	
Photo Diode Assembly	Rapp OptoElectronic	PDA	
Quartz light guide	Rapp OptoElectronic	varies	We use 600 µm diameter
Silver wire	World Precision Instruments, Inc.	AGT1025	
Silver ground pellet	Warner Instruments	64-1309	
Xenon arc lamp	Rapp OptoElectronic	XBL-JML	
Reagent	Company	Catalogue number	
BCMCM-caged cAMP	BioLog	B016	
Bovine serum albumin (BSA)	Sigma-Aldrich	A8806	
CaCl ₂ standard solution 0.1 M	Fluka	21059	
Caged Ca: DMNP-EDTA	Invitrogen	D6814	

Cysteine	Sigma-Aldrich	C9768	
Concanavalin A type V (ConA)	Sigma-Aldrich	C7275	
CsCl	Sigma-Aldrich	C4036	
DMSO	Sigma-Aldrich	D8418	
DNAse I	Sigma-Aldrich	D4527	
EDTA	Sigma-Aldrich	E9884	
EGTA	Sigma-Aldrich	E4378	
Glucose	Sigma-Aldrich	G5767	
HEPES	Sigma-Aldrich	H3375	
KCl	Sigma-Aldrich	P3911	
KOH	Sigma-Aldrich	P1767	
Leupeptin	Sigma-Aldrich	L0649	
MgCl ₂	Fluka	63020	
Papain	Sigma-Aldrich	P3125	
Poly-L-lysine	Sigma-Aldrich	P1274	
NaCl	Sigma-Aldrich	S9888	
NaOH	Sigma-Aldrich	S5881	
NaPyruvate	Sigma-Aldrich	P2256	