

Materials List for:

# Recording Electrical Activity from Identified Neurons in the Intact Brain of Transgenic Fish

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URL: <https://www.jove.com/video/50312>

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## Materials

Name	Company	Catalog Number	Comments
Microscope	Olympus		BX50W (Upright)
Amplifier	Axon Instruments		Axoclamp 200B
A-D converter	Computer Interference Corp.		Digidata ITC-18
Cooled CCD camera	PCO Computer Optics		Sensicam
Xenon lamp	Sutter Instruments Co.		
GFP filter set	Chroma Technologies		
Imaging Software	Intelligent Imaging Innovations		Slidebook software
Electrophysiology Data Acquisition Software	Axon Instruments		Axograph software
Electrophysiology Data Acquisition Software	AD Instruments Inc.		PowerLab
Headstage for electrophysiology	Axon Instruments		CV 203BU
Micromanipulator	Sutter Instrument Co	MP-285	
Recording Chamber Platform	Warner Instrument Corp.		P1
Recording Chamber	Warner Instrument Corp.		RC-26G
Electrode Puller	Sutter instruments		P87
Filament for electrode puller	Sutter Instruments	FB330B	3.0 mm wide trough filament
1.5 mm glass capillaries	World Precision Instruments	1B150-4	Micr-lectrode for recording
Syringe	Becton Dickinson	309586	3 ml
MS-222	Sigma	E10521-10G	Ethyl 3-aminobenzoate methanesulfonate salt
Fish saline			mM: 134 NaCl; 2.9 KCl; 2.1 CaCl <sub>2</sub> ; 1.2 MgCl <sub>2</sub> ; 10 HEPES
Electrode solution (loose-patch)			mM: 150 NaCl; 3.5 KCl; 2.5 CaCl <sub>2</sub> ; 1.3 MgCl <sub>2</sub> ; 10 HEPES; 10 glucose
Electrode solution (whole-cell patch)			mM: 112.5 K-gluconate; NaCl; 17.5 KCl; 0.5 CaCl <sub>2</sub> ; 1 MgCl <sub>2</sub> ; 5 MgATP; 1 EGTA; 10 HEPES; 1 GTP; 0.1 leupeptin; 10 phospho-creatine