

Materials List for:

# Long-range Channelrhodopsin-assisted Circuit Mapping of Inferior Colliculus Neurons with Blue and Red-shifted Channelrhodopsins

David Goyer<sup>1</sup>, Michael T. Roberts<sup>1</sup>

<sup>1</sup>Kresge Hearing Research Institute, Department of Otolaryngology - Head and Neck Surgery, University of Michigan

Correspondence to: Michael T. Roberts at [microb@med.umich.edu](mailto:microb@med.umich.edu)

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## Materials

Name	Company	Catalog Number	Comments
AAV1.Syn.ChrimsonR-tdTomato.WPRE.bGH	Addgene	59171-AAV1	
AAV1.Syn.Chronos-GFP.WPRE.bGH	Addgene	59170-AAV1	
Ai14 reporter mice (B6.Cg-Gt(ROSA)26Sortm14(CAG-tdTomato)Hze/J)	Jackson Laboratory	stock #007914	
Amber (590nm) LUXEON Rebel LED	Luxeon Star LEDs	SP-01-A8	
Blue (470nm) LUXEON Rebel LED	Luxeon Star LEDs	SP-01-B4	
Carproject (carprofen)	Henry Schein Animal Health	59149	
Drummond glas capillaries	Drummond Scientific Company	3-000-203-G/X	
Drummond Nanoject 3	Drummond Scientific Company	3-300-207	
Electrode beveler	Sutter Instrument	FG-BV10-D	
Ethilon 6-0 (0.8 metric) nylon sutures	Ethicon	local pharmacy	
Fixed stage microscope	any	n/a	
Gas anesthesia head holder	David Kopf Instruments	933-B	
General surgery tools	Fine Science Tools	N/A	
Golden A5 pet clipper	Oster	078005-010-003	
Heating pad	Custom build	N/A	
Hooded induction chamber w/ vacuum system	Patterson Scientific	78917760	
Hot bead sterilizer Steri 250	Inotech	IS-250	
Iodine solution 10%	MedChoice	local pharmacy	
Isoflurane vaporizer	Patterson Scientific	07-8703592	
Lidocain topical jelly 2%	Akorn	local pharmacy	
Micro motor drill 1050	Henry Schein Animal Health	7094351	
Micro motor drill bits 0.5 mm	Fine Science Tools	19007-05	
Motorized Micromanipulator	Sutter Instrument	MP-285/R	
Ophthalmic ointment Artificial Tears	Akorn	local pharmacy	
P-1000 electrode puller	Sutter Instrument	P-1000	
Patch clamp amplifier incl data acquisition software	any	n/a	
Portable anethesia machine	Patterson Scientific	07-8914724	
Small animal stereoetaxic frame	David Kopf Instruments	930-B	
Standard chemicals	local vendors	N/A	

standard imaging solutions			
Sterile towel drapes	Dynarex	4410	
Surgical marker	Fine Science Tools	18000-30	
Temperature controller	Custom build	N/A	
Vibratome	any	n/a	
VIP-IRES-Cre mice (Viptm1(cre)Zjh/J)	Jackson Laboratory	stock #010908	
Water bath	any	n/a	