

Materials List for:

Optogenetic Functional MRI

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Materials

Name	Company	Catalog Number	Comments
7 Tesla scanner	Agilent Technologies	Discovery MR901 System	
Sprague Dawley rats	Charles River	Crl:SD	11 weeks old
fiber cleaver	Fujikura	CT-05	
multimode optical fiber	Thor Labs	AFS105/125Y	
fiber stripper	Thor Labs	T08S13	
ceramic split sleeve	Precision Fiber Products	SM-CS1140S	
epoxy glue	Thor Labs	G14250	
cotton-tipped applicators	Stoelting Co.	50975	
multimode ceramic zirconia ferrules	Precision Fiber Products	MM-FER2002	
FC/PC multimode connector	Thor Labs	30128C3	
fiber optic polishing disk	Precision Fiber Products	M1-80754	
aluminum oxide lapping sheet, 0.3 µm	Thor Labs	LFG03P	
aluminum oxide lapping sheet, 1 µm	Thor Labs	LFG1P	
aluminum oxide lapping sheet, 3 µm	Thor Labs	LFG3P	
binocular biological microscope 40X-1,000X	Amscope	B100	
laser safety glasses	Kentek	KXL-62W01	
473 nm DPSS laser	Laserglow	LRS-0473	
594 nm DPSS laser	Laserglow	LRS-0594	
Allen hex wrench set			2.0 mm (5/64") for alignment of fiber tip to focal point of coupler in the laser
power meter, Si Sensor, 400-1,100 nm	Thor Labs	PM121D	
Isoflurane (Isothesia)	Henry Schein	50033	
isoflurane vaporizer with induction chamber	VetEquip	901806	
NanoFil 100 µl syringe	World Precision Instruments	NANOFIL-100	
UltraMicroPump with SYS-Micro4 Controller	World Precision Instruments	UMP3-1	
function generator	A.M.P.I.	Master-8	
small animal stereotax	David Kopf Instruments	Model 940	
Model 683 small animal ventilator	Harvard Apparatus	550000	
Type 340 capnograph	Harvard Apparatus	733809	

dental drill (rotary micromotor kit)	Foredom Electric Co.	K.1070	
ophthalmic ointment (Artificial Tears)	Rugby	00536-6550-91	
instrument sterilizer	CellPoint Scientific	Germinator 500	glass bead sterilizer
antibiotic powder	Pfizer	NEO-PREDEF	neomycin sulfate, isoflupredone acetate and tetracaine hydrochloride
buprenorphine painkiller	Hospira	NDC:0409-2012	schedule III controlled substance, 0.3 mg/ml stock