

Materials List for:

Simultaneous Two-photon *In Vivo* Imaging of Synaptic Inputs and Postsynaptic Targets in the Mouse Retrosplenial Cortex

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Materials

Name	Company	Catalog Number	Comments
Drug			
Isoflurane	Baxter	AErrane 8DG9623	5-2% pre-operative
Isoflurane	Baxter	AErrane 8DG9623	1.5-2% during surgery
Dexametasone	Scan Vet	Dexasone 2mg/ml	0.2 mg/kg intramuscular
Baytril	Bayer	2.50%	5 mg/kg subcutaneously
Tolfedine	Vetoquinol	4%	4 mg/kg subcutaneously
Butomidor	Richter Pharma	10 mg/ml	2 mg/kg subcutaneously
Carprofen	KRKA-Polska	Rycarfa 50mg/ml	10 mg/kg subcutaneously
Lidocaine	Jelfa	Lignocainum	topically
Lidocaine	Jelfa	20 mg/g	topically
Surgery			
Gelfoam	Ethicon	Spongostan dental; REF MS0005	
Eye ointment	Dedra	Lubrihal	topically
CA glue	Pelikan Daniel	20G Huste	
Dental acrylic	SpofaDental	Duracryl Plus	
Stereotaxic frame	Stoelting	51500D	
Tool			
Coverglass	Harvard Apparatus	HSE-64-0720	3 mm diameter
Dental drill	Sigmed	Keystone KVet	
Fixation bar	Custom made	N/A	M2 or M3 screw nuts could be used
Forceps	Renex	PN-7B-SA	
Micro scissors	Falcon	BM.183.180	
Dissection microscope	KOZO	XTL6445T	
Imaging			
Holder frame	Custom made	N/A	
Two-photon microscope	Zeiss	Upright Axio Examiner Z1	Laser unit: Coherent Chameleon 690-1040nm with Optical Parametric Oscillator 1050-1300nm. Objectives: EC-PLAN-NEUFLUAR 10x/0.1 and LD Plan-APOCHROMAT 20x/1.0. Detection: Zeiss bandpass filters BP 500-550 (GFP) and BP

			570-610 (mCherry) separated by beam splitter at 560nm and coupled to two GaAsP photodetectors.
Reagent			
Virus	gift from K. Deisseroth		Recombinant adeno-associated virus (rAAV) expressing fluorescent protein mCherry under the control of CaMK promoter