Materials List for:

Mapping Inhibitory Neuronal Circuits by Laser Scanning Photostimulation

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Materials

Name	Company	Catalog Number	Comments
transgenic mouse lines	Jackson lab or other sources		Please refer to Xu and Callaway (2009)
GFP goggles	BLS Ltd., Hungary		
vibratome	Leica Systems	VT1200S	
MNI caged glutamate (4-methoxy-7-nitroindolinyl-caged l-glutamate)	Tocris Bioscience, Ellisville, MO	Cat No. 1490	
biocytin		B4261	
electrode puller	Sutter Instrument, Novato, CA	P-97	
glass tubes for making electrodes		BF150-86-10	
Multiclamp 700B amplifier	Molecular Devices, Sunnyvale, CA	Multiclamp 700B	
digital CCD camera	Q-imaging, Austin, TX	Retiga 2000	
Research microscope	Olympus, Tokyo, Japan	BW51X	
UV laser unit	DPSS Lasers, Santa Clara, CA	model 3501	
Other equipment for Laser scanning phostimulation			Please refer to Xu *et al.* (2010)

Solutions:

- Sucrose-containing artificial cerebrospinal fluid (ACSF) for slice cutting (in mM: 85 NaCl, 75 sucrose, 2.5 KCl, 25 glucose, 1.25 NaH_2PO_4, 4 $MgCl_2$, 0.5 $CaCl_2$, and 24 $NaHCO_3$).
- Recording ACSF (in mM: 126 NaCl, 2.5 KCl, 26 $NaHCO_3$, 2 $CaCl_2$, 2 $MgCl_2$, 1.25 NaH_2PO_4, and 10 glucose)
- Electrode internal solution (in mM: 126 K-gluconate, 4 KCl, 10 HEPES, 4 ATP-Mg, 0.3 GTP-Na, and 10 phosphocreatine; pH 7.2, 300 mOsm).

