

Materials List for:

Large-scale Three-dimensional Imaging of Cellular Organization in the Mouse Neocortex

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Materials

Name	Company	Catalog Number	Comments
Crym-egfp transgenic mice	MMRRC	012003-UCD	
Tlx3-cre transgenic mice	MMRRC	36547-UCD	
ROSA-CAG-flox-tdTomato mice	Jackson Laboratory	JAX #7909	
Silicone rubber sheet	AS ONE	6-611-01	0.5 mm thickness
Silicone rubber sheet	AS ONE	6-611-02	1.0 mm thickness
Silicone rubber sheet	AS ONE	6-611-05	3.0 mm thickness
Petri dishes	Falcon	351008	
Cover glass	Matsunami	C022241	
Cholera toxin subunit B (recombinant), Alexa Fluor 488 conjugate	Invitrogen	C22841	
Cholera toxin subunit B (recombinant), Alexa Fluor 555 conjugate	Invitrogen	C22843	
Cholera toxin subunit B (recombinant), Alexa Fluor 594 conjugate	Invitrogen	C22842	
Cholera toxin subunit B (recombinant), Alexa Fluor 647 conjugate	Invitrogen	C34778	
26 G Hamilton syringe	Hamilton	701N	
Injector pump	KD Scientific	KDS 310	Pons injection
Injector pump	KD Scientific	KDS 100	Superior colliculus injection
Manipulator	Narishige	SM-15	
Sodium pentobarbital	Kyoritsu Seiyaku	Somnopentyl	
Isoflurane	Pfizer		
Lidocaine	AstraZeneca	Xylocaine injection 1% with epinephrine	
Drill	Toyo Associates	HP-200	
Avitene microfibrillar hemostat	Davol Inc	1010090	
Alonalfa	Daiichi-Sankyo	Alonalpha A	
Surgical silk	Ethicon	K881H	
Incubator	UVP	HB-1000 Hybridizer	
Glass pipette	Drummond Scientific Company	2-000-075	
Electrode puller	Sutter Instrument Company	P-97	
Paraffin Liquid, light	Nacalai tesque	26132-35	

Saline	Otsuka	1326	
Paraformaldehyde	Nacalai tesque	26126-54	
Tungsten needle	Inter medical	Φ0.1 *L200 mm	
Vibratome	Leica	VT1000S	
50 mL plastic tube	Falcon	352070	
α-thioglycerol	Nacalai tesque	33709-62	
D(-) Fructose	Nacalai tesque	16315-55	
BluTack	Bostik	CKBT-450000	
Two-photon microscope	Nikon	A1RMP	
Water-immersion long working distance objectives	Nikon	CFI Apo LWD 25XW, NA 1.1, WD 2 mm	
Water-immersion long working distance objectives	Nikon	CFI LWD 16XW, NA 0.8, WD 3 mm	
Motorized stage	COMS	PT100C-50XY	
Filter	Semrock	FF01-492/SP-25	
Filter	Semrock	FF03-525/50-25	
Filter	Semrock	FF03-575/25-25	
Filter	Semrock	FF01-629/56	
Filter	Chroma	D605/55m	
5 mL plastic tube	AS ONE	VIO-5B	
2 mL plastic tube	Eppendorf	0030120094	
Urea	Nacalai tesque	35905-35	
Triton X-100	Nacalai tesque	35501-15	
Glycerol	Sigma-aldrich	191612	
D(-)-sorbitol	Wako	191-14735	
Methyl-β-cyclodextrin	Tokyo chemical industry	M1356	
γ-Cyclodextrin	Wako	037-10643	
N-acetyl-L-hydroxyproline	Skin Essential Actives	33996-33-7	
DMSO	Nacalai tesque	13445-45	
Bovine Serum Albumin	Sigma-aldrich	A7906	
Tween-20 (1.1 g/mL)	Nacalai tesque	35624-15	
Goat anti-Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 555	Invitrogen	A21422	
Goat anti-Rabbit IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 555	Invitrogen	A21428	
Goat anti-Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 647	Invitrogen	A21235	
Goat anti-Mouse IgG (H+L) Highly CrossAdsorbed Secondary Antibody, Alexa Fluor 488	Invitrogen	A11029	
Donkey anti-Rabbit IgG (H+L) Highly CrossAdsorbed Secondary Antibody, Alexa Fluor 488	Invitrogen	A21206	
Confocal microscope	Olympus	FV1000	
Water-immersion long working distance objectives	Olympus	XLUMPLFLN 20XW, NA 1.0, WD 2 mm	
Anti-NeuN	Millipore	MAB377	

Anti-NeuN	Millipore	ABN78	
Anti-CTIP2	Abcam	ab18465	
Anti-Statb2	Abcam	ab51502	
Anti-GAD67	Millipore	MAB5406	
Anti-GABA	Sigma	A2052	
Anti-Parvalbumin	Swant	235	
Anti-Parvalbumin	Frontier Institute	PV-Go-Af460	
Anti-Parvalbumin	Sigma	P3088	
Anti-Parvalbumin	Abcam	ab11427	
Anti-Somatostatin	Peninsula Laboratories	T-4103	
Anti-c-Fos	CalbioChem	PC38	