Materials List for:

Combined Optogenetic and Freeze-fracture Replica Immunolabeling to Examine Input-specific Arrangement of Glutamate Receptors in the Mouse Amygdala

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Materials

Name	Company	Catalog Number	Comments
Surgery			
Stereotactic frame	Stoelting, USA	51670	can be replaced by other stereotactic frame for mice
Stereotactic frame mouse adaptor	Stoelting, USA	51625	
Gas anesthesia mask for mice	Stoelting, USA	50264	no longer available, replaced by item no. 51609M
Pressure injection device, Toohey Spritzer	Toohey Company, USA	T25-2-900	other pressure injection devices (e.g. Picospritzer) can be used
Kwik Fill glass capillaries	World Precision Instruments, Germany	1B150F-4	
Anesthesia machine, IsoFlo	Eickemeyer, Germany	213261	
DC Temperature Controler and heating pad	FHC, USA	40-90-8D	
Horizontal Micropipette Puller Model P-1000	Sutter Instruments, USA	P-1000	
Surgical tool sterilizer, Sterilizator 75	Melag, Germany	08754200	
rAAV-hSyn-ChR2(H134R)-eYFP (serotype 2/9)	Penn Vector Core, USA	AV-9-26973P	
fast green	Roth, Germany	0301.1	
Isoflurane Anesthetic, Isofuran CP (1 ml/ml)	CP Pharma, Germany		
Antiseptic, Betadine (providone-iodine)	Purdure Products, USA	BSOL32	can be replaced by other disinfectants
Analgesic, Metacam Solution (5 mg/ml meloxicam)	Boehringer Ingelheim, Germany		can be replaced by other analgesics
Bepanthen eye ointment	Bayer, Germany	0191	can be replaced by other eye ointments
Drill NM3000 (SNKG1341 and SNIH1681)	Nouvag, Switzerland		
Sutranox Suture Needle	Fine Science Tools, Germany	12050-01	
Braided Silk Suture	Fine Science Tools, Germany	18020-60	
Name	**Company**	**Catalog Number**	**Comments**
Tissue preparation			
Paraformaldehyde EM grade	Agar Scientific Ltd., United Kingdom	AGR1018	
Saturated picric acid solution	Sigma-Aldrich, USA	P6744-1GA	

Na$_2$HPO$_4$-2H$_2$0	Merck Millipore, Germany	1065860500	
NaH$_2$PO$_4$-2H$_2$O	Merck Millipore, Germany	1063451000	
NaCl	Merck Millipore, Germany	1064041000	
4N NaOH	Carl Roth, Germany	T198.1	
Thiopental	Sandoz, Austria	5,133	
Glycerol	Sigma-Aldrich, USA	G5516-500ML	
GenPure ultrapure water system	Thermo Fisher Scientific, USA	50131235	
Peristaltic pump	ISMATEC, Germany	ISM 930C	
Filter Paper	MACHEREY-NAGEL, Germany	MN 615 1/4	
Vibroslicer, VT1000S	Leica Microsystems, Austria		
Ophthalmic scalpel	Alcon Laboratories, USA		can be replaced by other ophthalmic scalpels
Perfusion cannula	Vieweg, Germany	F560088-1	can be replaced by similar items from other companies
Name	**Company**	**Catalog Number**	**Comments**
High-pressure Freezing			
Copper carriers	Engineering Office M. Wohlwend, CH	528	
Sidol Polish	Henkel, Germany		can be replaced by same item from other companies
Chamois skin	Household supply store		
Hole punch, 1,5mm	Stubai, Austria		can be replaced by same item from other companies
Denatured ethanol	Donauchem, Austria		can be replaced by same item from other companies
Acetone	Roth, Germany	9372.5	CAUTION!
High Pressure Freezing Machine HPM 010	BalTec, CH; now Leica Microsystems	HPM010	not produced any more, substituted by LeicaEM HPM100
Stereo-microscope	Olympus, Japan	SZX10	
Liquid nitrogen			CAUTION!
Cryo-vials	Roth, Germany	E309.1	can be replaced by same item from other companies
CryoCane	Nalge Nunc International,USA	5015-0001	can be replaced by same item from other companies
CryoSleeve	Nalge Nunc International,USA	5016-0001	can be replaced by same item from other companies
Liquid nitrogen storage vessel	Cryopal, France	GT38	can be replaced by same item from other companies
Non-ionic detergent (Lavocid)	Werner & Mertz Professional, Germany		
Name	**Company**	**Catalog Number**	**Comments**
Freeze-fracture and Replication			
Sandblaster, Mikromat 200-1	JOKE Joisten & Kettenbaum, Germany	SANDURET 2-K	can be replaced by same item from other companies
Siliciumcarbid SIC 360, grain size 25 - 21µ	JOKE Joisten & Kettenbaum, Germany	955932	
Freeze Fracture System BAF 060	BalTec, CH; now Leica Microsystems	BAF060	
Ceramic 12 well plate	Gröpel, Austria	14511	can be replaced by same item from other companies

Trizma base	SIGMA, USA	T1503	can be replaced by same item from other companies
Trizma hydrochloride	SIGMA, USA	T3253	can be replaced by same item from other companies
Sodium chloride	Merck, Germany	1,064,041,000	can be replaced by same item from other companies
SDS, Sodium lauryl sulfate	Roth, Germany	5136.1	CAUTION! ; can be replaced by same item from other companies
Sucrose	Merck, Germany	1,076,871,000	can be replaced by same item from other companies
TRIS	Roth, Germany	5429.3	can be replaced by same item from other companies
Universal Hybridization Oven	Binder, Germany	7001-0050	can be replaced by same item from other companies
Name	**Company**	**Catalog Number**	**Comments**
Immunolabelling			
BSA	SIGMA, USA	A9647	can be replaced by same item from other companies
Anti-GFP Antibody	Molecular Probes, USA	A11122	
Anti-pan-AMPAR Antibody	Frontier Institute, Japan	pan AMPAR-GP-Af580-1	
Anti-NMDAR1 Antibody, clone 54.1	Merck Millipore, Germany	MAB363	
Opioid Receptor-Mu (MOR) Antibody	ImmunoStar, USA	24216	
EM goat anti-guinea pig, 5 nm; secondary antibody	BBInternational, UK	EM.GAG5	
EM goat anti-rabbit, 15 nm; secondary antibody	BBInternational, UK	EM.GAR15	
Donkey anti-rabbit, 10nm, secondary antibody	AURION, Netherlands	DAR 10nm	
Copper grids, 100 Parallel Bar	Agar scientific, UK	G2012C	
Incubator	Major Science, USA	MO-RC	can be replaced by same item from other companies
Pioloform Powder	Agar scientific, UK	R1275	
Chloroform	Roth, Germany	3313.1	CAUTION! ; can be replaced by same item from other companies
Name	**Company**	**Catalog Number**	**Comments**
EM analysis			
Philips CM120 TEM	Philips/FEI		
Morada CCD camera	Soft Imaging Systems, Germany		
iTEM Ver. 5.2, imaging software	Soft Imaging Systems, Germany		