

Materials List for:

Assessment of Ultrastructural Neuroplasticity Parameters After In Utero Transduction of the Developing Mouse Brain and Spinal Cord

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Materials

Name	Company	Catalog Number	Comments
2,4,6-Tris(dimethyl-aminomethyl)phenol	Serva	36975	
26Gx 1" needle	Henke-Sass, Wolf GmbH		
410 Anaesthesia Unit for air pump	Biomedical Instruments (Univentor)	8323102	
Adeno-associated virus serotype 1 (AAV1)	UKE (Viral Core Facility)	-	For references and target areas of AAV1 see: https://www.addgene.org/viral-vectors/aav/aav-guide/ and also: Designer gene delivery vectors: molecular engineering and evolution of adeno-associated viral vectors for enhanced gene transfer. Kwon I, Schaffer DV. Pharm Res. 2008 Mar;25(3):489-99. Recombinant AAV viral vectors pseudotyped with viral capsids from serotypes 1, 2, and 5 display differential efficiency and cell tropism after delivery to different regions of the central nervous system. Burger C, Gorbatyuk OS, Velardo MJ, Peden CS, Williams P, Zolotukhin S, Reier PJ, Mandel RJ, Muzyczka N. Mol. Ther. 2004 Aug;10(2):302-17. Self-complementary recombinant adeno-associated virus (scAAV) vectors promote efficient transduction independently of DNA synthesis. McCarty DM, Monahan PE, Samulski RJ. Gene Ther. 2001 Aug;8(16):1248-54.
Agarose	Sigma-Aldrich	A9414	low gelling agarose
Air Pump	Biomedical Instruments (Univentor)	Eheim 100	
Araldite	CIBA-GEIGY	23857.9	resin for embedding of tissue
aspirator tube assemblies	Sigma-Aldrich	A5177-5EA	
Breathing Mask Mouse Anodized Aluminium	Biomedical Instruments (Univentor)	-	
buprenorphine	Temgesic	ampules	painkiller
capillaries	Science-Products	GB100TF-10	with filament
Dodeceny succinic anhydride	Fluka	44160	
Dumont tweezers (#3, 12 cm, straight, 0.2 x 0.12 mm)	FST	11203-23	

electric shaver	Phillips	-	
Ethicon sutures (Ethilon, 6-0 and 3-0)	Ethicon	-	polyamide
eye lubricant	Bepanthen	-	
Fast Green	Sigma-Aldrich	F7252	for visualization of injected liquids
Gas Routing Switch 4/2 connectors	Biomedical Instruments (Univentor)	8433020	
halsted Mosquito hemostatic forceps (12.5 cm, straight)	FST	13011-12	
Heparin-Natrium	Ratiopharm		25 000 I.E./5 ml
Induction box for mice with horizontally moving lid. Inner dimensions: LxBxH: 155x115x130 mm. Wall thickness: 6 mm	Biomedical Instruments (Univentor)	-	
iris forceps (10cm, curved, serrated)	FST	14007-14	
iris scissors (11cm, straight, tungsten carbide)	FST	14501-14	
Isofluran OP Tisch, electrically heated, sm Outer dimensions: 257x110x18 mm. Heating area: 190x90 mm The removal of the isoflurane escaping the breathing mask is downwards in compliance with the regulations	Biomedical Instruments (Univentor)	-	
isoflurane (Attane)	JD medical		inhalation anesthesia
LED RGB lights	Cameo	CLQS15RGBW	LEDs 2 x 15 W
Light microscope Basic DM E	Leica	-	4x (N.A. 0.1 ∞ -), 10x (N.A. 0.22 ∞ /0.17), 40x (N.A. 0.65 ∞ /0.17), 100x (N.A. 1.25 ∞ /0.17) objectives
micropipette puller	Science-Products	P-97	
Mosquito hemostatic forceps (12.5cm, curved)	FST	13010-12	
Nickel grids, 200 mesh	Ted Pella	1GC200	
Osmium (VIII)-oxid	Degussa	73219	
Propylene oxide	Fluka	82320	
razor blades	Schick	87-10489	
Sodium pentobarbital (Narcoren)	Merial GmbH	-	
TC01mR 1-Channal temperature controller with feedback	Biomedical Instruments (Univentor)	-	
Technovit 4004 two components glue	Kulzer		
Telemacrodevice	Canon	-	Canon Spiegelreflex Kamera EOS2000D, EF-S 18-55 mm f/3.5-5.6 IS STM Objective, Extension below 150 mm, Manual Extension Tube 7 mm ring, 14 mm ring, 28 mm ring, Macro reverse ring (58 mm), Canon copy stand.
Thermopuller P-97	Sutter Instruments	-	
thin vibrating razor blade device	Krup	-	with Szabo thin blades
toluidine blue	Sigma-Aldrich	89640	

Transmission electron microscope C20	Phillips	-	up to 200 kV
Tygon 6/4 Tubing material for connection of all parts Outer diameter: 6mm Inner diameter: 4mm Wa ll thickness: 1mm	Biomedical Instruments (Univention)	-	
Ultracut E	Reichert-Jung	-	ultramicrotome
Univention Scavenger	Biomedical Instruments (Univention)	8338001	
Vannas scissors (8 cm, straight)	FST	15009-08	