

Materials List for

In Situ Visualization of Axon Growth and Growth Cone Dynamics in Acute *Ex Vivo* Embryonic Brain Slice Cultures

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jove.com/video/63068

Materials

Name	Company	Catalog Number	Comments
Adson Forceps	Fine Science Tools	11006-12	
Alexa Fluor 488	Invitrogen	A21202	Goat Anti-Mouse
Alexa Fluor 647	Invitrogen	A21236	Goat Anti-Mouse
Anti-Vimentin antibody	sigma-Aldrich	V2258-.2ML	Monoclonal mouse, clone LN-6, ascites fluid
B27 supplement	ThermoFisher Scientific	17504044	
Betadine	B. Braun	3864154	
Biozym Sieve GP Agarose	Biozyme	850080	
Braunol, Sprühflasche	B. Braun	3864073	
Buprenorphine (Temgesic)	GEHE Pharma	345928	
DAPI	sigma-Aldrich	D9542	
DMZ unevirsal electrode puller	Zeitz	NA	
Electric razor	Andes	NA	ProClip UltraEdge Super 2-Speed model
Enrofloxacin (Baytril)	Bayer	3543238	2,5% (wt/vol)
Eppendorf microloader pipette tips	FischerScientific	10289651	
Fast Green FCF	Sigma-Aldrich	F7252-5G	Dye content ≥ 85 %
Fetal Bovine Serum	ThermoFisher Scientific	10500064	
Fiji 2.1.0	NIH	NA	https://imagej.net/software/fiji/downloads
Fine Scissors	Fine Science Tools	14058-09	ToughCut/Straight/9cm
FluoroDish Cell Culture Dish	World Precision Instruments	FD5040-100	
Fluoromount Aqueous Mounting Medium	sigma-Aldrich	F4680-25ML	
Glucose	MedPex	3705391	5%
GlutaMAX Supplement	ThermoFisher Scientific	35050061	
Glycine	Sigma-Aldrich	G8898	

HBSS	Life Technologies	14025092	calcium, magnesium, no phenol red
Horse serum	Pan-Biotech	P30-0711	
Imaris 9.7.2	Bitplane	NA	https://imaris.oxinst.com/products/imaris-for-neuroscientists
Isoflurane	Virbac	NA	
Isotonic saline solution	B. Braun	8609261	0.90%
Leica VT1200 S vibratome	Leica	14048142066	
LSM 880 with Airyscan	Zeiss	NA	
Metacam	Venusberg Apotheke	8890217	5 mg/ml
Mice	Janvier Labs	NA	C57BL/6JRj
Micro-Adson Forceps	Fine Science Tools	11018-12	
Micropipette Storage Jar	World Precision Instruments	E210	16.16.27
Microsoft Excel	Microsoft	NA	https://www.microsoft.com/en-us/microsoft-365/p/excel/cfq7ttc0k7dx?activetab=pivot:overviewtab
Millicell Cell Culture Insert	EMD Millipore	PICM0RG50	30 mm, hydrophilic PTFE, 0.4 µm
Moria Perforated Spoons	Fine Science Tools	10370-18	
Moria Spoon	Fine Science Tools	10321-08	
Neurobasal Medium, minus phenol red	ThermoFisher Scientific	12348017	
Neuropan-2 supplement	Pan-Biotech	P07-11010	
Normal goat serum	Abcam	ab138478	
Olsen-Hegar Needle Holder with Scissors	Fine Science Tools	12002-12	
p-Tub-alpha-1-Dre	Addgene	133925	
p-Tub-alpha-1-iCre	Addgene	133924	
p-Tub-alpha-1-LifeAct-GFP	Addgene	175437	
Parafilm	VWR	52858-000	
Paraformaldehyde	sigma-Aldrich	P6148	
PBS	Sigma-Aldrich	P3813-10PAK	
pCAG-lox-rox-STOP-rox-tRFP-lox-Lyn-ZsGreen	Addgene	175438	
pCAG-lox-STOP-lox-Lyn-mNeonGreen	Addgene	175257	
Penicillin-Streptomycin	ThermoFisher Scientific	15140122	
PicoNozzle Kit v2	World Precision Instruments	5430-ALL	
Platinum Tweezerrodes	Harvard Apparatus	45-0487	1 mm / 3 mm
QIAGEN Maxi kit	QIAGEN	12162	
Reflex wound closure Clip	World Precision Instruments	500344-10	7 mm
Sekundenkleber Pattex Mini Trio	Lyreco	4722659	
Square wave electroporation system ECM830	Harvard Apparatus	W3 45-0052	
Sterile gauze	Braun Askina	9031216	
Sterile lubricant eye ointment	Bayer Vital	PZN1578675	
Sterile surgical gloves	Sempermed	14C0451	
Sucrose	Roth	4621.2	
Supramid 5-0 surgical silk sutures	B. Braun	NA	
Thin-wall glass capillaries	World Precision Instruments	TW100-4	
Triton X-100	Sigma-Aldrich	X100	
Vannas spring scissors	Fine Science Tools	15000-03	

μ-Slide 8 Well Glass Bottom	Ibidi	80827	
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