

Materials List for

The "Brain Milking" Method for the Isolation of Neural Stem Cells and Oligodendrocyte Progenitor Cells from Live Rats

Dimitrios Dimitrakopoulos¹, Chrisitna Dimitriou¹, Freyja McClenahan², Robin J. M. Franklin^{2,3}, Ilias Kazanis¹

¹Laboratory of Developmental Biology, Department of Biology, University of Patras ²Wellcome Trust-MRC Cambridge Stem Cell Institute, University of Cambridge ³Altos Labs, Cambridge Institute of Science

Corresponding Author

Ilias Kazanis

ikazanis@upatras.gr

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Materials

Name	Company	Catalog Number	Comments
Release cocktail			
β1-integrin-blocking antibody	BD Biosciences	#555002	purified NA/LE Hamster Anti-Rat CD29 Clone Ha2/5, 1 mg/mL. Any antibody with blocking activity should be appropriate.
Neuraminidase from <i>Clostridium perfringens</i> (<i>Clostridium welchii</i>)	Sigma-Aldrich	#N2876	Neuraminidases from other sources (e.g., from <i>Vibrio cholerae</i>) have not been tested.
Recombinant Human FGF-basic (154 a.a.)	Peprotech	#100-18B	kept as a 1 μg/μL stock, diluted in sterile water at -20 °C
Surgical procedures			
10 μL Syringe	Hamilton	#80330	Model 701 RN, Small Removable Needle, 26s gauge, 2 in., point style 2
BD Micro-fine 1 mL insulin syringes	BD biosciences	04085-00	29 G x 12.7 mm
BETADINE CUT.SOL 10% FLX30ML	LAVIPHARM-CASTALIA	SKU: 5201048131168	
Bupaq	RICHTERPHARMA	1021854AF	10 mL (buprenorphine 0.3 mg/mL)
Digital New Standard Stereotaxic, Rat and Mouse	Stoelting	51500D	
Homeothermic Monitoring System	Harvard Apparatus	55-7020	
ISOFLURIN 1,000 mg/g inhalation vapour, liquid	Vetpharma Animal Health	32509/4031	
Ketamidol	RICHTER PHARMA	SKU: 9004114002531	Ketamine 100 mg/mL
Nylon suture, Ethilon	Ethicon	D9635	Clear , size 5-0
Rechargeable Cordless Surgical Trimmers	Stoelting	Item:51472	
Scalpel blades, sterile	Swann Morton	AW050	
Scopettes Jr. 8-inch Swabs	Birchwood Laboratories	34-7021-12P	
Stereotaxic High Speed Drill	Foredom	1474w/o1464	

Stoelting's Stereotaxic Instrument Kit	Stoelting	Item: 52189	
Xylan 2%	Chanelle Pharmaceuticals	13764/03/19-5-2004	Xylazine, 25 mL
Tissue and cells handling and immunostainings			
96-well plates appropriate for microscopy	Greiner	#655866	Screen star microplate
B27 supplement	ThermoFisher Scientific	A1486701	
Bovine Serum Albumin (BSA)	Merck	P06-1391100	Fraction V, heat shock
Citrate	Merck	71497	Sodium citrate monobasic
Cryostat	Leica	CM1510S	
DAPI	Merck, Calbiochem	28718-90-3	Nuclear staining, Dilution: 1/1,000
DMEM	ThermoFisher Scientific	11995065	High glucose, pyruvate
donkey anti-goat	Biotium	20016 or 20106 or 20048	Dilution: 1/1,000
donkey anti-mouse	Biotium	20014 or 20105 or 20046	Dilution: 1/1,000
donkey anti-rabbit	Biotium	20015 or 20098 or 20047	Dilution: 1/1,000
EGF	Peprtech	315-09	
FGF-2 (or bFGF)	Peprtech	100-18B	
goat anti-GFAP	Abcam	ab53554	Dilution: 1/500
goat anti-SOX2	Santa Cruz Biotechnology	sc-17320	Dilution: 1/200
mouse anti-ID3	Santa Cruz Biotechnology	sc-56712	Dilution: 1/200
mouse anti-S100 β	Sigma	S2532	Dilution: 1/200
Mowiol	Merck, Calbiochem	475904	Mounting medium
N2 supplement	ThermoFisher Scientific	17502048	
Paraformaldehyde	Merck	158127	
Poly-D-Lysine	Merck, Millipore	A-003-E	Solution, 1.0 mg/mL
rabbit anti-Doublecortin (DCX)	Abcam	ab18723	Dilution: 1/500
rabbit anti-PDGFR α	Abcam	ab51875	Dilution: 1/200
rabbit anti- β -catenin	Abcam	ab16051	Dilution: 1/500
Triton X-100	Merck	X100	
Microscopy and image analysis			
Confocal microscope	Leica	SP6 and SP8	
Image analysis	NIH, USA	ImageJ	
Image analysis	Leica	LasX	