

A Human Cerebral Organoid Model of Neural Cell Transplantation

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Materials

Name	Company	Catalog Number	Comments
Accutase	StemCell Technologies	7920	proteolytic-collagenolytic enzyme mix
Alexa Fluor 488 anti-GFP Antibody	BioLegend	338008	
Alexa Fluor 488 anti-MAP2 (clone SMI 52)	BioLegend	801804	
Alexa Fluor 594 anti-GFAP Antibody (clone SMI 25)	BioLegend	837510	
Alexa Fluor 594 anti-Nestin (clone 10C2)	BioLegend	656804	
Alexa Fluor 647 anti-Tubulin β 3 (TUBB3) (clone TUJ1)	BioLegend	801209	
Citric Acid Monohydrate	Fisher Chemical	A104-500	
Cytation 5 Cell Imaging Multimode Reader	Biotek	-	
Denaturated Ethyl Alcohol (Anhydrous)	ChapTec	-	
DMEM F12/Glutamax	Thermo	10565018	
Dymethyl Sulfoxide (DMSO), Sterile	BioShop	DMS666.100	
FIJI 1.53c	-	-	
Formalin solution, neutral buffered, 10%	Sigma	HT501128-4L	
Gen5	-	-	
HistoCore Arcadia H	Leica Biosystems	-	
Matrigel Growth Factor Reduced (GFR)	Corning	356231	Phenol Red-free, LDEV-free
MX35 microtome blade	Epredia	3053835	
NaOH	Sigma	655104	
PBS (-Ca -Mg)	Sigma	D8537	
Puromycin Dihydrochloride	Thermo	A1113803	
ROCK inhibitor Y-27632	Abcam	ab120129	

Simport Scientific Stainless-Steel Base Molds	Fisher Scientific	22-038-209	
Simport Scientific UNISSETTE Biopsy Processing/Embedding Cassette	Fisher Scientific	36-101-9255	
STEMdiff Forebrain Neuron Differentiation Kit	StemCell Technologies	8600	
STEMdiff Neural Progenitor Medium	StemCell Technologies	5833	
STEMdiff SMADi Neural Induction Kit	StemCell Technologies	8581	
Thermo Scientific Shandon Finesse ME Microtome	Thermo Scientific	-	
Tissue Prep	Fisher Scientific	T555	
Tissue-Tek VIP 6 AI Tissue Processor	Sakura Finetek	-	
Toluene (histological)	ChapTec	-	
Trypan blue; 0.4% (wt/vol)	Thermo	15250061	
Tween 20	BioShop	TWN510.100	