

Materials List for

An *Ex Vivo* Brain Slice Model to Study and Target Breast Cancer Brain Metastatic Tumor Growth

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jove.com/video/62617

Materials

Name	Company	Catalog Number	Comments
1 mL syringe, slip tip	BD	309659	
30 G1/2 Needles	BD	305106	
6-well plates	Genessee	25-105	
Automated microscope and LUMAVIEW software	Etaluma	LS720	
B27 (GEM21)	Gemini Bio-Products	400-160	
Beaker 50 mL	Fisher	10-210-685	
Blunt sable paintbrush, Size #5/0	Electron Microscopy Sciences	66100-50	
Bone Wax	ModoMed	DYNJBW25	
Brain injection Syringe	Hamilton Company	80430	
CaCl ₂	Fisher Scientific	BP510-250	
Cleaved caspase 3 Antibody	Cell Signaling	14220S	
DAPI	Invitrogen	P36935	
D-Luciferin Potassium Salt	Perkin Elmer	122799	
Double edge razor blade	VWR	55411-060(95-0043)	
Filter Paper (#1), quantitative circles, 4.25 cm	Fisher	09-805a (1001-042)	
Fine sable paintbrush #2/0	Electron Microscopy Sciences	66100-20	
Forceps	Fine Science Tools	11251-20	
Gamma-H2AX antibody	Millipore	05-636	
GFAP antibody	Thermo Fisher	13-0300	
GFP antibody	Santa Cruz	SC-9996	
Glucose	Sigma Aldrich	G8270	
Glutamine (200 mM)	Corning cellgrow	25-005-CI	

H&E and KI-67	Jefferson Core Facility Pathology staining		
Hand Drill Set with Micro Mini Twist Drill Bits	Amazon	YCQ2851920086082DJ	
HEPES, free acid	Fisher Scientific	BP299-1	
Just for mice Stereotaxic Frame	Harvard Apparatus (Holliston, MA, USA).	72-6049, 72-6044	
KCl	Fisher Scientific	S271-10	
Large surgical scissors	Fine Science Tools	14001-18	
MDA-MB-231BR cells	Kindly provided by Dr. Patricia Steeg	Ref ¹⁴	
MgCl ₂ ·6H ₂ O	Fisher Scientific	M33-500	
Mice imaging device	Perkin Elmer	IVIS 200 system	
Mice imaging software	Caliper Life Sciences (Waltham, MA, USA).	Living Image Software	
Microplate Reader	Tecan Spark		
Mounting solution	Invitrogen	P36935	
MTS reagent	Promega CellTiter 96 Aqueous One Solution	(Cat:G3582)	
N2 supplement	Life Technologies	17502-048	
Neurobasal medium	Life Technologies	21103049	
Nu/Nu athymic mice	Charles Rivers Labs (Wilmington, MA, USA)		
Paraformaldehyde	Affymetrix	19943	
Pen/Strep	Life Technologies	145140-122	
Polypropylene Suture	Medex supply	ETH-8556H	
Povidone Iodine Swab sticks	DME Supply USA	Cat: 689286X	
Scalpel blade #11 (pk of 100)	Fine Science Tools	10011-00	
Scalpel handle #3	Fine Science Tools	10003-12	
Sodium Pyruvate	Sigma Aldrich	S8636	
Spatula/probe	Fine Science Tools	10090-13	
SS Double edge uncoated razor blades (American safety razor co (95-0043))	VWR	55411-060	
Sucrose	Amresco	57-50-1	
Surgical Scalpel	Exelint International	D29702	
Tissue Chopper	Brinkman	(McIlwain type)	
Tissue culture inserts	Millipore	PICMORG50 or PICM03050	
X-ray machine	Precision 250 kVp		