

Materials List for:

# A Human Glioblastoma Organotypic Slice Culture Model for Study of Tumor Cell Migration and Patient-specific Effects of Anti-Invasive Drugs

Jonathon J. Parker<sup>1</sup>, Marcela Lizarraga<sup>2</sup>, Allen Waziri<sup>2</sup>, Kara M. Foshay<sup>2</sup>

<sup>1</sup>Department of Neurosurgery, Stanford University Hospital, Stanford University School of Medicine

<sup>2</sup>Inova Neuroscience Institute

Correspondence to: Allen Waziri at [Allen.Waziri@inova.org](mailto:Allen.Waziri@inova.org)

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## Materials

Name	Company	Catalog Number	Comments
DMEM High Glucose	Invitrogen (Gibco)	11960-044	
Neurobasal-A Medium, minus phenol red	Invitrogen (Gibco)	12349-015	
B-27 Supplement (50x), serum free	Invitrogen (Gibco)	17504-044	
Penicillin-Streptomycin (10,000 U/mL)	Invitrogen (Gibco)	15140-122	
GlutaMAX Supplement	Invitrogen (Gibco)	35050-061	
L-Glutamine (200 mM)	Invitrogen (Gibco)	25030-081	
HEPES (1 M)	Invitrogen (Gibco)	15630-080	
Nystatin Suspension	Sigma-Aldrich	N1638-20ML	10,000 unit/mL in DPBS, aseptically processed, BioReagent, suitable for cell culture
UltraPure Low Melting Point Agarose	Invitrogen (Gibco)	16520-050	Melts at 65.5 °C, Remains fluid at 37 °C, and sets rapidly below 25 °C.
Isolectin GS-IB4 from <i>Griffonia simplicifolia</i> , Alexa Fluor 647 Conjugate	Thermo Fisher (Molecular Probes)	I32450	Used in media to label Microglia/Macrophages
pRetroX-IRES-ZsGreen1 Vector	Clontech	632520	
Retro-X Concentrator	Clontech	31455	Binding resin for non-ultracentrifugation concentration of viral supernatants
pVSG-G Vector	Clontech	631530	part of the Retro-X Universal Retroviral Expression System
GP2-293 Viral packaging cells	Clontech	631530	part of the Retro-X Universal Retroviral Expression System
Cyanoacrylate Glue (Super Glue)	Sigma-Aldrich	Z105899	Medium-viscosity
<b>Equipment</b>			
Peel-A-Way Embedding Mold (Square - S22)	Polysciences, Inc.	18646A-1	Molds for tumor sample embedding
Stainless Steel Micro Spatulas	Fisher Scientific	S50823	Bend instrument 45 degrees at the neck of the spoon blade
Curved Fisherbrand Dissecting Fine-Pointed Forceps	Fisher Scientific	08-875	
Single Edge Razor Blade (American Safety Razors)	Fisher Scientific	17-989-001	Blade edge is 0.009" thick. Crimped blunt-edge cover is removed before loading onto vibratome.
Leica VT1000 S Vibratome	Leica Biosystems	VT1000 S	

Hydrophilic PTFE cell culture insert	EMD Millipore	PICM0RG50	30 mm, hydrophilic PTFE, 0.4 $\mu$ m pore size
35 mm Glass Bottom Dishes	MatTek	P35G-1.5-20-C Sleeve	20 mm glass diameter. Coverslip glass thickness 1.5 mm
LSM 510 Confocal Micoscope	Zeiss	LSM 510	10x Air Objective (c-Apochromat NA 0.45)
PECON Stagetop Incubator	PeCON Germany	(Discontinued)	Incubator PM 2000 RBT is a comprable product designed for use with Zeiss Microscopes.