

Materials List for:

Intact Histological Characterization of Brain-implanted Microdevices and Surrounding Tissue

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Materials

Name	Company	Catalog Number	Comments
Reagents			
H-chst 33342	Invitrogen	14533	DNA marker
Rabbit anti-Iba1	Wako (Japan)	019-19741	Monocyte antibody
Dental acrylic	Lang Dental (various distributors)	Jet Denture Repair Powder & Liquid	Headcap construction
Kwik-Sil	World Precision Instruments	KWIK-SIL	Covering exposed cranial implants
Normal goat serum	Jackson ImmunoResearch	005-000-121	Tissue processing
Triton X-100	Sigma-Aldrich	X100-500ml	Tissue processing
Urea	Sigma-Aldrich	U4883	Clearing solution
Glycerol	Sigma-Aldrich	G20225	Clearing solution
Equipment			
Curved micro-scissors	World Precision Instruments	14208	Cutting implant before removing brain
Razor blades	Ted Pella	(various sizes)	For use with Brain Block
Acrylic Brain Matrice	Ted Pella	15054	Brain Block to create initial plane in tissue
Plastic slides	Ted Pella	260225	Mounting tissue
Cover glass	Ted Pella	(various sizes)	Mounting tissue
Electrode arrays	NeuroNexus Technologies	(various designs)	Example MEAs
Vibratome	Leica	VT1000 S	Specific system used in presented method
Vibratome blades	(various suppliers)		Collecting slices
24-well plates	(various suppliers)		Storing and processing tissue slices
Confocal microscope with motorized XY-scanning stage	Carl Zeiss Microscopy	Zeiss LSM 710 and 'Zen 2010' software	Specific system used in presented method
Soldering iron	(various suppliers)		Excavating headcap