

Materials List for

Investigation of Spatial Interaction Between Astrocytes and Neurons in Cleared Brains

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URL

jove.com/video/63679

Materials

Name	Company	Catalog Number	Comments
AAV1-GFAP::TdTomato	ELSC Vector Core Facility (EVCF)		viral vector used to detect astrocytes
AAV5-CaMKII::eGFP	ELSC Vector Core Facility (EVCF)		viral vector used to detect neurons
AAV5-CaMKII::H2B-eGFP	ELSC Vector Core Facility (EVCF)		viral vector used to detect neuronal nuclei
AAV5-CaMKII::TdTomato	ELSC Vector Core Facility (EVCF)		viral vector used to detect neurons
Acrylamide (40%)	Bio-rad	#161-0140	
Bisacrylamide (2%)	Bio-rad	#161-0142	
Boric acid	Sigma	#B7901	Molecular weight - 61.83 g/mol
Confocal microscope, scanning, FV1000	Olympus		4x objective (UPlanSApo, 0.16 NA)
Imaris software	Bitplane, UK		A software that allows 3D analysis of images
NaOH	Sigma	#S5881	
PBS			
PFA 4%	EMS	#15710	
RapiClear	SunJin lab	#RC147002	
RapiClear CS	SunJin lab	#RCCS002	
SDS	Sigma	#L3771	
SyGlass software			A software that allows 3D analysis of images using virtual reality
Tris base 1 M	Bio-rad	#002009239100	Molecular weight - 121.14 g/mol
Triton X-100	ChemCruz	#sc-29112A	
Two photon microscope	Neurolabware		Ti:sapphire laser (Chameleon Discovery TPC, Coherent), GaAsP photo-multiplier tubes (Hamamatsu, H10770-40), bandpass filter (Semrock), water immersion 16x objective (Nikon, 0.8 NA)
VA-044 Initiator	Wako	#011-19365	