

Materials List for:

Imaging Plasma Membrane Deformations With pTIRFM

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Materials

Name	Company	Catalog Number	Comments
iXon3 EMMCD Camera	Andor	897	
IX81 Inverted Microscope	Olympus		Side-mounted Filtercube Assembly
43 Series Ar-Ion Laser	CVI Milles Griot Laser Optics	543-AP-A01	Tunable to 488nm
Sapphire 561 LP Diode Laser	Coherent		561nm
Scanning Galvo Mirror System	Thorlabs	GVS102	
VC ³ Channel Focal Perfusion System	ALA Scientific Instruments	ALA VC3X4PP	
QMM Quartz MicroManifold	ALA Scientific Instruments	ALA QMM-4	
10 PSI Pressure Regulator	ALA Scientific Instruments	ALA PR10	
Manipulator	Burleigh	TS 5000-150	
Mounted Achromatic Quarter-Wave Plate	Thorlabs	AQWP05M-600	
420-680nm Polarizing Beamsplitter Cube	Thorlabs	PBS201	
Six Station Neutral Density Wheel	Thorlabs	FW1AND	
Stepper-motor Driven SmartShutter	Sutter Instruments	IQ25-1219	
HQ412lp Dichroic Filter	Chroma	NC255583	Joins 488nm and 561nm beams
Coated Plano-Concave Lens	Edmund Optics	PCV 100mm VIS 0	Diverges 488nm beam
Coated Plano-Concave Lens	Edmund Optics	PCV 250mm VIS 0	Diverges 561nm beam
Coated Plano-Convex Lens	Edmund Optics	PCX 125mm VIS 0	Focuses both beams
Coated Plano-Convex Lens	Edmund Optics	PCX 50mm VIS 0	Cemented to filter cube assembly
z488/561rpc Dichroic	Chroma	z488/561rpc	Filtercube dichroic
z488/561_TIRF Emission Filter	Chroma	z488/561m_TIRF	Filtercube emission
UIS2 60x Objective	Olympus	UPLSAPO 60XO	NA 1.37
Neon Transfection System	Invitrogen	MPK 5000	
MetaMorph Imaging Software	Molecular Devices		
Dil Membrane Dye	Invitrogen	V-22885	For Alignment Purposes
TH Liberase	Roche	5401135001	
TL Liberse	Roche	5401020001	
DNase I Type IV from bovine	Sigma	D5025	
Hemocytometer	Fisher	0267110	
DiD Membrane Dye	Invitrogen	D-7757	
Rhodamine	Invitrogen	R634	
.22 µm Membrane Syringe Filter Unit	Millipore	SLGS033SS	

Fluoresbrite Polychromatic Red Microspheres	Polysciences	19507	0.5 microns
Immersion Oil	Sigma	56822	
LabVIEW	National Instruments		Controls galvo mirrors
Spinner Flask	Bellco	1965-00250	