

Materials List for:

Correlative Microscopy for 3D Structural Analysis of Dynamic Interactions

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Materials

Name	Company	Catalog Number	Comments
Reagents			
DMEM 4.5 g/L Glucose w/ L-Glutamine	Atlanta Biologicals, Inc. Lawrenceville, GA	12-604F	
Fibronectin	Sigma, St. Louis, MO	F1141-1MG	HeLa cell culture on EM grids
Cell tracker	Invitrogen Corporation, Carlsbad, CA	C34552	Red CMTPX
Protein A gold conjugates	Ted Pella, Inc., Redding, CA	15822-1	15 nm diameter
0.2 µm fluorescent microspheres	Invitrogen Corporation, Carlsbad, CA	F8811	Yellow-green fluorescent
Heat-inactivated fetal calf bovine serum	Invitrogen Corporation, Carlsbad, CA	10082-139	
Penicillin-Streptomycin	Invitrogen Corporation, Carlsbad, CA	15140-122	
Glass-bottom culture dish	MatTek Corporation	P35G-1.5-14-C	
Gold quantifoil finder EM grids	Quantifoil Micro Tools, Jena, Germany	R2/2 Au NH2 200 mesh	
PBS	Invitrogen Corporation, Carlsbad, CA	70011-044	
Equipment			
Glow-discharge device 100X	EMS, Hatfield, PA		
Tecnai Polara G2 electron microscope with a Field Emission Gun	FEI, Hillsboro, OR		300 keV
Vitrobot Mark III	FEI, Hillsboro, OR		
Olympus IX 71 microscope	Olympus America Inc., Center Valley, PA		LUCPlanFLN 40X/0.6 NA (2.7-4 mm working distance) objective lens
Nikon TiE microscope	Nikon Instruments, Melville, NY		using a 60X/1.35 NA oil immersion objective lens
Sweptfield confocal microscope	Prairie Technologies, Middleton, WI		
Tokai Hit live cell chamber	Tokyo, Japan		
Cryo-fluorescence sample stage	Home-made		Homebuilt by machine shop, see reference 15 for the design.