

Materials List for:

Visualizing Adhesion Formation in Cells by Means of Advanced Spinning Disk-Total Internal Reflection Fluorescence Microscopy

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Materials

Name	Company	Catalog Number	Comments
Microscope and accessories			
SD-TIRF microscope	Visitron Systems		
Ti with perfect focus system	Nikon		Inverted microscope stand
CSU-W1 T2	Yokogawa		Spinning disk unit in dual-camera configuration
iLAS2	Roper Scientific		TIRF/FRAP scanner
Evolve	Photometrix		EM-CCD cameras
PiezoZ stage	Ludl Electronic Products		Motorized Z stage
Bioprecision2 XY stage	Ludl Electronic Products		Motorized XY stage
Stage top incubation chamber	Okolab	Bold Line	Temperature, CO ₂ and humidity supply
Name	Company	Catalog Number	Comments
Cell culture			
HeLa cervical cancer cells	DSMZ	ACC-57	
NIH3T3 fibroblasts	DSMZ	ACC-59	
Dulbecco's phosphate buffered saline (PBS)	Gibco	14190144	
Trypsin-EDTA 0.05%	Gibco	25300054	
Dulbecco's Modified Eagle Medium + GlutaMAX-I (DMEM)	Gibco	31966-021	
OptiMEM	Gibco	31985070	Reduced serum medium
Fetal calf serum (FCS)	Gibco	10500064	
Penicillin/Streptomycin (PenStrep)	Gibco	15140148	
Full growth medium (DMEM supplemented with 10% FCS and 1% PenStrep)			
TurboFect	ThermoFisher Scientific	R0531	Transfection reagent
Ascorbic acid (AA)	Sigma	A544-25G	
6-well cell culture plate	Sarstedt	83.392	
Glass bottom dishes	MatTek	P35G-1.5-10-C	35mm, 0.17mm glass coverslip
Fibronectin, bovine plasma	ThermoFisher Scientific	33010018	
Neubauer improved chamber	VWR	631-0696	
TetraSpeck beads	ThermoFisher Scientific	T7279	
Name	Company	Catalog Number	Comments
Plasmids			

RFP-Lifeact			Maren Rudolph, Institute of Medical Microbiology, University Medical Center Hamburg Eppendorf, Germany
YFP-Vinculin			Andrea Mordhorst, Institute of Medical Microbiology, University Medical Center Hamburg Eppendorf, Germany
Name	Company	Catalog Number	Comments
Software and plugins			
VisiView	Visitron Systems		Version 3
ImageJ			Version 1.52c
Turboreg plugin			http://bigwww.epfl.ch/thevenaz/turboreg/
Volocity	PerkinElmer		Version 6.2.2