

Materials List for:

FRET Microscopy for Real-time Monitoring of Signaling Events in Live Cells Using Unimolecular Biosensors

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URL: <https://www.jove.com/video/4081>

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Materials

Name	Company	Catalog Number	Comments
BES Buffer Grade	AppliChem	A1062	
CaCl ₂ dihydrate	Sigma-Aldrich	C5010	
Glass coverslides	Thermo Scientific	004710781	Diameter 24 mm
Glass-bottomed cell-culture dishes	World Precision Instruments	FD3510-100	
D-MEM medium	Biochrom AG	F0445	
Fetal calf serum (FCS)	Thermo Scientific	SH30073.02	
L-Glutamine	Biochrom AG	K0283	
HEPES	Sigma	H4034	
KCl	Sigma	P5405	
MgCl ₂ hexahydrate	AppliChem	A4425	
NaCl	AppliChem	A1149	
Na ₂ HPO ₄	Sigma-Aldrich	S9707	
Penicillin/Streptomycin	Biochrom AG	A2213	
Inverted fluorescent microscope	e.g. Nikon	Request at Nikon	
CoolLED	CoolLED	pE-100	440 nm
DualView	Photometrics	DV2-SYS	
DualView filter slider	Photometrics	05-EM	
CFP/YFP filter set	Chroma Technology	49052	without the emission filter
ORCA-03G camera	Hamamatsu Photonics	C8484-03G02	
Arduino I/O board	Sparkfun Electronics	DEV-00666	
Attofluor cell chamber	Invitrogen	A-7816	
Personal computer with WindowsXP or Windows7 system	Any supplier		Include hard-drive with high capacity