

Materials List for:

From Fast Fluorescence Imaging to Molecular Diffusion Law on Live Cell Membranes in a Commercial Microscope

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URL: <https://www.jove.com/video/51994>

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Materials

Name	Company	Catalog Number	Comments
iXon Ultra 897	Andor	DU-897U-CS0	
Solis	Andor		
CHO-K1	ATCC	CCL-61	
ATTO 488 labeled PPE	ATTO-TEC GmbH	AD 488-151	
DOPE	Avanti Polar Lipids, Inc.	850725	
DOTAP	Avanti Polar Lipids, Inc.	890890	
100x Penicillin-Streptomycin-Glutamine	Gibco	10378-016	
DMEM/F-12	Gibco	21331	
FBS	Gibco	10082147	
HEPES	Gibco	15630-106	
PBS	Gibco	10010-023	
SimFCS 3.0	Globals Software		the software can be downloaded here: http://www.lfd.uci.edu/globals/
DMI6000 with TIRF modulus	Leica		
LAS AF	Leica		
Lipofectamine 2000	Lipofectamine	11668019	
Matlab	MathWork		
ImageJ	NIH		

Name	Company	Catalog Number	Comments
C-terminal GFP tagged Tranferrin Receptor	OriGene	RG200980	
Agar	Sigma Aldrich	A5306	
Chloroform	Sigma Aldrich	528730	
Latex beads, fluorescent yellow-green, 30 nm	Sigma Aldrich	L5155	
SONICA Ultrasonic Cleaners	SOLTEC	ETH S3	
Petri Dishes	Willco	GWSt-3522	
Bio-Format importer for Matlab			http://www.openmicroscopy.org/site/support/bio-formats5/users/matlab/
ICS-MatLab Tools			https://www.cellmigration.org/resource/imaging/software/ICSMATLAB_28-02-06.zip

Simulation by Matlab Tutorial			https://www.cellmigration.org/resource/imaging/icsmatlab/ICSTutorial.html
Simulation by SimFCS Tutorial			https://www.cellmigration.org/resource/imaging/ppt-pdf/RICS%20Simulations.ppt