

Materials List for

Dynamic Light-Induced Protein Patterns at Model Membranes

Daniele Di Iorio¹, Seraphine V. Wegner¹

¹Institute of Physiological Chemistry and Pathobiochemistry, University of Münster

Corresponding Author

Seraphine V. Wegner
wegnerse@uni-muenster.de

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jove.com/video/66531

Materials

Name	Company	Catalog Number	Comments
μ-Slide 18 Well	Ibidi	81817	For SLB preparation
25 μL Microliter Syringe	Hamilton	Model 702 N	For the preparation of lipid mixture and spreading the lipid solution on the PVA layer
Biotinyl Cap PE (1,2-dioleoyl-sn-glycero-3-phosphoethanolamine-N-(cap biotiny)) (sodium salt)	Avanti Polar Lipids	870273C	For SUVs preparation
CaCl ₂ (Calcium chloride)	Sigma-Aldrich	C5670	For SLB formation
Cover Slips 24 mm x 60 mm	Engelbrecht	K12460	For GUVs formation
DiD (1,1'-Dioctadecyl-3,3,3',3'-Tetramethylindodicarbocyanine)	Thermo Fisher Scientific	D7757	Membrane dye
disiLID			Sequence: MGGSGGLNDIFEAQKIEWHEGGSH HHHHHGSMATELRGVVGP GPAA IAALGGGGAGPPVGGGGGRGDA GPGSGAASGTVVAAAAGGPGPG AGGVAAAGPPAPPTGGSGGSGA GGSGSAGEFLATTLERIEKNFVIT DPRLPDNPIIFASDSFLQLTEYSR EEILGRNCRFLQGPETDRATVRK IRDAIDNQTEVTVQLINYTKSGKK FWNVFLQPMRDYKGDVQYFIG VQLDGTERRLHGAAREAVMLIKK TAFQIAEAANDENYF
DOPC (1,2-di-(9Z-octadecenoyl)-sn-glycero-3-phosphocholine)	Avanti Polar Lipids	850375P	For SUVs lipid composition
Eppendorf Protein LoBind microcentrifuge tubes	Merk	EP0030108116-100EA	For collecting freshly made GUVs
mOrange-Nano			Sequence: MRGSHHHHHHGSKIEEGKLV WINGDKGYNGLAEVGKKFEKDT GIKVTVEHPDKLEEFQVAATG DGPDIIFWAHDRFGGYAQSGLLA EITPKAFQDKLYPFTWDAVRYN GKLIAYPIAVEALSLIYNKDLLPNP PKTWEEIPALDKELKAKGKSALM FNLQEPYFTWPLIAADGGYAFKY ENGYDIKDVGVNAGAKAGLTF

			<p> LVDLIKNKHMNADTDYSIAEAAFN KGETAMTINGPWAWSNIDTSKVN YGVTVLPFTFKGQPSKPFVGVLSA GINAASPNKELAKEFLENYLLTDE GLEAVNKDKPLGAVALKSYEEELA KDPRIAATMENAQKGEIMPNIQPM SAFWYAVRTAVINAASGRQTVDEA LKDAQTNSSSNNNNNNNNNLGI EGTTENLYFQGSVSKGEENNMAI IKEFMRFKVRMEGVSNGHEFEIE GEGEGRPYEGFQTAKLKVTKGG PLPFAWDILSPQFTYGSKAYVKH PADIPDYFKLSFPEGFKWERVMN FEDGGVVTVTQDSSLQDGEFIYK VKLRGTNFPDGPVMQKKTMG WEASSERMPEDGALKGEIKMR LKLDGGHYTSEVKTTYKAKKPV QLPGAYIVGIKLDITSHNEDYTIVE QYERAEGRHSTGGMDELYKGG SGTSSPKRPKLLREYYDWLVDN SFTPYLVVDATYLGVNVPEYVK DGQIVLNLASATGNLQLTNDFIQ FNARFKGVSRELYIPMGAALAIYA RENGDMVFPEEIIYDELNIG </p>
NaCl (Sodium chloride)	Sigma-Aldrich	S9888	For buffer
NaOH (Sodium hydroxide)	Sigma-Aldrich	1064980500	For surface activation in SLB formation
POPC (1-Palmitoyl-2-oleoylphosphatidylcholine)	Avanti Polar Lipids	850457C	For GUVs lipid composition
PVA (Polyvinyl alcohol) fully hydrolyzed	Sigma-Aldrich	8148940101	For GUVs formation
SP8 confocal laser scanning microscope	Leica		
Streptavidin	TermoFisher	434301	
Sucrose	Sigma-Aldrich	84097	For GUVs formation
Tris hydrochloride	Sigma-Aldrich	10812846001	For buffer