

Materials List for

# Generation of Multicue Cellular Microenvironments by UV-Photopatterning of Three-Dimensional Cell Culture Substrates

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jove.com/video/63988

## Materials

Name	Company	Catalog Number	Comments
Anti-vinculin antibody, mouse monoclonal IgG1	Sigma	V9131	Dilution: 1/600
Bovine Serum albumin, Fraction V	Roche	10735086001	
DMEM, high glucose, pyruvate	Gibco	41966029	
DMEM/F-12 + GlutaMAX (1x)	Gibco	10565018	
DMi8 epifluorescent microscope	Leica Microsystems		
Ethanol	Biosolve	0005250210BS	
Fetal Bovine Serum	Serana	758093	
Fiji/ImageJ, version v1.53k	www.imagej.nih.gov		
Fluorescent highlighter	Stabilo	4006381333627	
Fluorescein-labeled gelatin	Invitrogen	G13187	Concentration: 0.01%
Formaldehyde solution	Merck	F8775	
Glass coverslips 24 x 60 mm, #1	VWR	631-1575	
Glass coverslips, ø = 32 mm, #1	Menzel-Gläser		
HCX PL fluotar L 20X/0.40na microscope objective	Leica	11506242	
HEPES	Gibco	15630080	
Human dermal fibroblasts	Lonza	CC-2511	
Human primary keratocytes	MERLN Institute for Technology-Inspired Regenerative Medicine		
Illustrator, Version 26.0.1	Adobe		
Laboratory oven	Carbolite		
L-Ascorbic acid 2-phosphate sesquimagnesium salt hydrate	Sigma-Aldrich	A8960	
Leica Application Suite X software, version 3.5.7.23225	Leica Microsystems		

Leonardo software, version 4.16	Alvéole		
Micro-manager, version 1.4.23	Open imaging		
Mowiol 4-88	Sigma-Aldrich	81381	mounting medium
mPEG-succinimidyl valerate MW 5,000 Da	Laysan Bio	MPEG-SVA-5000	Concentration: 50 mg/mL
Negative glass mold	FEMTOprint		
NucBlue Live Readyprobes Reagent (Hoechst 33342)	Invitrogen	R37605	2 drops/mL
Penicillin-Streptomycin (10,000 U/mL)	Gibco	15140163	
Petri dish (ø=100 mm)	Greiner Bio-one	664160	
Phalloidin Atto 647N	Sigma	65906	Dilution: 1/250
Phosphate Buffered Saline	Sigma	P4417	
Plasma asher	Emitech	K1050X	
PLPP (photoinitiator)	Alvéole		
Poly-L-lysine, sterile-filtered	Sigma-Aldrich	P4707	Concentration: 0.01%
PRIMO	Alvéole		
Rhodamine-labeled fibronectin	Cytoskeleton, Inc.	FNR01	Concentration: 10 µg/mL
Secondary antibody with Alexa 488, Goat anti-mouse IgG1 (H)	Molecular Probes	A21121	Dilution: 1/300
Secondary antibody with Alexa 555, Goat anti-mouse IgG1 (H)	Molecular Probes	A21127	Dilution: 1/300
Spin coater	Leurell Technologies Corporation	model WS-650MZ-23NPPB	
SYLGARD 184 Silicone Elastomer Kit	DOW	1673921	
TCS SP8X confocal microscope	Leica Microsystems		
tridecafluoro(1,1,2,2-tetrahydrooctyl)trichlorosilane	ABCR	AB111444	
TrypLE Express Enzyme (1x), no phenol red	Gibco	12604013	
Trypsin-EDTA (0.05%), phenol red	Gibco	25300054	