

Materials List for:

# Creating Two-Dimensional Patterned Substrates for Protein and Cell Confinement

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## Materials

Name	Company	Catalog Number	Comments
Silicon wafer	Wafer Reclaim Services		2 inch
Spin coater/hot plate	Brewer Science, Inc.	Cee 200CB Spin-Bake System	
AZ9245 Photoresist	Mays Chemical Company	105880034-1160	
Direct-write photolithography system	Microtech s.r.l.	LW325 LaserWriter System	
Mask Aligner	HTG	3HR	
AZ 400K Developer	Mays Chemical Company	105880018-1160	
Sylgard 182 Silicone Elastomer Kit	Dow Corning		
25 mm no. 1 round glass coverslips	VWR international	16004-310	
Plasma Oxidizer	Diener	Femto	
Titanium pieces	Kamis Incorporated		99.95% pure
Gold pellets	Kamis Incorporated		99.999% pure
Electron-beam evaporator	Kurt J. Lesker	PVD 75 Thin Film Deposition System	with electron-beam accessory
Hexadecanethiol	Alfa Aesar	A11362	
1-mercaptoundec-11-yl)tetra(ethyleneglycol)	Sigma-Aldrich	674508	
Ethanol	Pharmco-AAPER	111000200	200 proof, absolute
Parafilm	VWR international	52858-000	
DPBS	VWR international	4500-434	Without calcium and magnesium
Mouse Laminin I	VWR international	95036-762	
Human Plasma Fibronectin	Invitrogen	33016-015	
AlexaFluor® 647 carboxylic acid, succinimidyl ester	Invitrogen	A-20006	
MitoTracker Red 580	Invitrogen	M22425	
AlexaFluor® 350 carboxylic acid, succinimidyl ester	Invitrogen	A-10168	
Anti-laminin antibody	Fisher Scientific	AB2034MI	