

Materials List for:

Microfabrication of Nanoporous Gold Patterns for Cell-material Interaction Studies

Pallavi Daggumati¹, Ozge Kurtulus², Christopher Abbott Reece Chapman³, Damla Dimlioglu¹, Erkin Seker¹

¹Department of Electrical and Computer Engineering, University of California, Davis

²Department of Chemical Engineering and Materials Science, University of California, Davis

³Department of Biomedical Engineering, University of California, Davis

Correspondence to: Erkin Seker at eseker@ucdavis.edu

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Materials

Name	Company	Catalog Number	Comments
Gold target	Lesker	EJTAUXX403A2	Precursor to alloy for producing np-Au
Chrome target	Lesker	EJTCRXX353A2	Adhesive layer
Silver target	Lesker	EJTAGXX403A2	Precursor to alloy for producing np-Au
Porcelain boat	Thomas Scientific	8542E40	Used for processing small samples
Nitric acid	Sigma-Aldrich	43873	Used at 70% for dealloying
Sulfuric acid	J.T Baker	7664-93-9	Used at 96% for piranha cleaning
Hydrogen peroxide	J.T Baker	7722-84-1	Used at 30% for piranha cleaning
Biopsy punches	Ted Pella	150xx	Available in several sizes
Silicone elastomer sheets	Rogers Corporation	HT 6240	Available in several thicknesses
Hexamethyldisilazane	Sigma-Aldrich	440191-100ML	Used as adhesion promoter for positive resist
Microposit MF CD26	Shipley	38490	Positive photoresist developer
PRS 3000	J.T Baker	JT6403-5	Positive photoresist stripper
Circular glass coverslips (12 mm)	Ted Pella	26023	Used as substrate for metal patterns and cell culture
Glass slides (1 x 3 inch)	Ted Pella	26007	Used as substrate for metal patterns
Kapton polyimide tape	VWR	82030-950	Used for securing elastomer
Transparency masks	Output City		Used in photolithography http://www.outputcity.com/
Plasma cleaner	Harrick Plasma	PDC-32G	Used for activating glass surfaces
Sputtering machine	Kurt J. Lesker	LAB18	Used for depositing metals