

Materials List for:

A Microfluidic Device with Groove Patterns for Studying Cellular Behavior

Bong Geun Chung¹, Amir Manbachi¹, Ali Khademhosseini¹

¹Harvard Medical School

Correspondence to: Ali Khademhosseini at alik@mit.edu

URL: <http://www.jove.com/video/584>

DOI: [doi:10.3791/584](https://doi.org/10.3791/584)

Materials

Name	Type	Company	Catalog Number	Comments
PDMS	Reagent	K.R. Anderson Co.	2065622	Poly(dimethylsiloxane), Dow Corning Sylgard 184 (8.6 lb)
DMEM	medium	Invitrogen	11965	Dulbecco's Modified Eagle's Media
FBS	serum	Invitrogen	10082-147	Fetal Bovine Serum
Hydrogen peroxide	Reagent	Sigma-Aldrich	H1009	
Apoptosis assay		Invitrogen	V13242	Annexin A, propidium iodide
Negative photoresist		MicroChem Corp.	SU-8 2015	
Si wafer	Tool			4 inch silicone wafer
Reactive oxygen plasma	Reagent	Harrick Scientific Products, Inc.		treat wafer 5 min at 30W
inverted microscope	Tool	Nikon Instruments	TE 2000	