

Mechanostimulation of Multicellular Organisms Through a High-Throughput Microfluidic Compression System

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Materials

Name	Company	Catalog Number	Comments
100 mL tri-cornered perforated plastic beakers with 60 mm Petri dishes	Fisher	14-955-111B	Perferate with air holes
100 mm P B <100> 0-100 500um SSP Test Grade Si Wafer	University Wafer	452	
Biopsy punches	Ted Pella	15110	
Bleach			Not brand specific
Blunt needle set	CML Supply	901	
Contact Mask Aligner	Quintel	Q4000 MA	
Cutting mat	Dahle	Vantage 10670	size: 24" x 36"
Developer	Kayaku Advance Materials	SU-8 2000	
Direct Write Lithographer	Heidelberg	MLA100	
Dissecting microscope			Any commercially available dissecting microscope with transmitted light
Glass petri dish	Fisher	FB0875713A	
Glass slide	Warner Instruments	64-0710 (CS-24/60)	
HMDS Vapor Prime Oven	Yes Engineering	YES-3TA	
NaCl			Not brand specific
Oven	Labnet	I5110A	
Paintbrush			Not brand specific
PDMS	Dow Corning	Sylgard 184	
Photoresist	MicroChem	SU-8 2100	
Plasma cleaner	Harrick Plasma	PDC-32G	
Portable pressure source	hygger Quietest	HGD946	
Pressure gauge	Cole-Parmer	EW-68950-25	
Spin Coater	Laurell	WS-650-8B	
Trichloro(1H,1H,2H,2H-perfluorooctyl)silane (PFOCTS)	Sigma-Aldrich	448931-10G	
Triton-X 100	Fisher	AAA16046AP	

Tubing	Saint-Gobain	02-587-1A	
Ultrasonic Cleaner	Cole-Parmer	UX-08895-05	
Vacuum Pump	Cole-Parmer	EW-07164-87	