

Materials List for:

Simple Microfluidic Devices for *in vivo* Imaging of *C. elegans*, *Drosophila* and Zebrafish

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URL: <https://www.jove.com/video/3780>

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Materials

Name	Company	Catalog Number	Comments
Silicon wafers	University wafer	150 mm (100) Mech Grade SSP Si	
Clewin Software	WieWeb software	Version 2.90	
Laser plotter	Fine Line Imaging	65,024 DPI	
HMDS	Sigma-Aldrich	440191-100ML	
SU8	Microchem	SU8-2025, SU8-2050	
Developer	Microchem	SU8 Developer	
Silane	Sigma-Aldrich	448931-10G	
PDMS	Dow corning	Sylgard 184	
UV lamp	Oriel	66943	200W Hg Oriel Light
Hot air oven	Ultra Instruments	Custom made	Set at 50 °C
Hot plate	IKA Laboratory Equipment	3810000	http://www.ika.com
Plasma cleaner	Harrick Plasma	PDC-32G	
Spinner	Semiconductor Production Systems	SPIN150-NPP	www.SPS-Europe.com
Glass cover slip	Gold Seal	22 X 22 mm, No. 1 thickness	
<i>C. elegans</i>	<i>Caenorhabditis</i> Genetics Center (CGC)	<i>e1265, ayls4</i>	
<i>Drosophila</i>	Bloomington	P{chaGAL4}/cyo, UAS-syt.eGFP	
Zebrafish	Indian wild type	Wild type	
Tygon tube	Sigma	Z279803	
Micro needle	Sigma	Z118044	Cut into 1 cm pieces
3-way stopcock	Sigma	S7521	
Harris puncher	Sigma	Z708631	
Compressed nitrogen gas	Local Gas supplier		Use a regulator to control the pressure
Stereo microscope	Nikon	SMZ645	
Confocal microscope	Andor Olympus	Yokogawa spinning disc confocal microscope	
ImageJ	National Institutes of Health	www.rsbweb.nih.gov/ij	Java based image processing program