

Materials List for:

# Non-plasma Bonding of PDMS for Inexpensive Fabrication of Microfluidic Devices

Joseph Harris<sup>1</sup>, Hyuna Lee<sup>1</sup>, Behrad Vahidi<sup>1</sup>, Cristina Tu<sup>2</sup>, David Cribbs<sup>3</sup>, Carl Cotman<sup>3</sup>, Noo Li Jeon<sup>1</sup>

<sup>1</sup>Department of Biomedical Engineering, University of California, Irvine (UCI)

<sup>2</sup>Stem Cell Research Center, University of California, Irvine (UCI)

<sup>3</sup>Institute for Brain Aging and Dementia, University of California, Irvine (UCI)

Correspondence to: Joseph Harris at [jwharris7@gmail.com](mailto:jwharris7@gmail.com), Noo Li Jeon at [njeon@uci.edu](mailto:njeon@uci.edu)

URL: <https://www.jove.com/video/410>

DOI: [doi:10.3791/410](https://doi.org/10.3791/410)

## Materials

Name	Type	Company	Catalog Number	Comments
PDMS	Reagent	Dow Corning		Sylgard 184 with curing agent Please consult Dow Corning to find a vendor near you
Corning No. 1 Cover Glass	Cover Glass	Corning	Corning No. X2935 244	Available through Fisher Scientific, Fish Catalog number 12-531D
B27	Reagent	Invitrogen	17504-044	B27 is a proprietary supplement available through Invitrogen under their Gibco line of cell culture reagents.
Glutamax	Reagent	Invitrogen	35050-061	Glutamax is available through Invitrogen under their Gibco line of cell culture reagents.
60 mm Petri Dish	Tool	Fisher Scientific	08-757-13A	60 mm polystyrene sterile petri dishes are used to house the device bound to glass.
Poly-L-Lysine	Reagent	Sigma-Aldrich	P-1274	
BD Falcon 50 ml Tube	Tool	BD Biosciences	Falcon No. 352098	Available through Fisher Scientific catalog number 14-959-49A
BD Falcon 15 ml tube	Tool	BD Biosciences	Falcon No. 352097	Available through Fisher Scientific catalog number 14-959-70C