

Materials List for:

An Objective and Reproducible Test of Olfactory Learning and Discrimination in Mice

Gary Liu^{*1,2}, Jay M. Patel^{*2,3}, Burak Tepe¹, Cynthia K. McClard^{2,4}, Jessica Swanson⁴, Kathleen B. Quast⁴, Benjamin R. Arenkiel^{1,3,4,5}

¹Program in Developmental Biology, Baylor College of Medicine

²Medical Scientist Training Program, Baylor College of Medicine

³Department of Neuroscience, Baylor College of Medicine

⁴Department of Molecular and Human Genetics, Baylor College of Medicine

⁵Jan and Dan Duncan Neurological Research Institute at Texas Children's Hospital

*These authors contributed equally

Correspondence to: Gary Liu at garyliu87@gmail.com

URL: <https://www.jove.com/video/57142>

DOI: [doi:10.3791/57142](https://doi.org/10.3791/57142)

Materials

Name	Company	Catalog Number	Comments
Glass vial	Qorpak	GLC-01016	
Silicon Tubing	Thermo Scientific	86000030	
18 gauge needles	BD	305196	
1-Butanol	Sigma Aldrich	437603	
Propionic Acid	Sigma Aldrich	402907	
Mouse Chamber	Med Associates	ENV-307W	
Chamber Floor	Med Associates	ENV-307W-GFW	
Water Port	Med Associates	ENV-313W	Need two
Odor stimulus	Med Associates	ENV-275	Contain 2 valves to gate odor delivery
Odor Port	Med Associates	ENV-375W-NPP	
USB Interface	Med Associates	DIG-703A-USB	
Desktop Computer with Windows 2000, XP, Vista, or 7			
Flow meter	VWR	97004-952	
Behavioral software	Med Associates	SOF-735	This software, which runs each training stage, has now been replaced with Med-PC V
Data Transfer software	Med Associates	SOF-731	This software formats the data to Excel
Training Software	Med Associates	DIG-703A-USB	This software is used to program each training stage
Water Valve	Neptune Research	225P012-11	This valve is used to gate the water delivery. Need Two
Odor Valve	Neptune Research	360P012-42	This valve is used to gate the odor delivery. Need Two