

Materials List for:

Flypub To Study Ethanol Induced Behavioral Disinhibition and Sensitization

Nataly M. Delgado^{*1}, Carmen Mariana Sierra^{*1}, Abraham Arzola¹, Erick Benjamin Saldes¹, Kyung-An Han¹, Paul Rafael Sabandal¹

¹Department of Biological Sciences, University of Texas at El Paso

*These authors contributed equally

Correspondence to: Kyung-An Han at khan@utep.edu, Paul Rafael Sabandal at pbsabandal@utep.edu

URL: <https://www.jove.com/video/61123>

DOI: [doi:10.3791/61123](https://doi.org/10.3791/61123)

Materials

Name	Company	Catalog Number	Comments
95 % Ethanol	VWR Chemicals	BDH1158-4LP	
<i>Canton-S</i>	-	-	wild-type strain used as a control
Copy stand with arms	Kaiser	205411	model RS 2-XA, with one central arm and two lateral arms; to set up a flypub station
Cotton rounds	Swisspers	COT-027	to deliver ethanol
Excel	Microsoft	-	to analyze data; any worksheet or spreadsheet software can be used
Fluorescent light bulb	Lights of America	7108N	maximum (120 V-70 W Max.); to illuminate the flypub station
Microsoft LifeCam software	Microsoft	-	version 3.60; to videotape flypubs
Microsoft LifeCam Studio	Microsoft	Q2F-00013	1080P HD sensor; to videotape flypubs
Minitab 17	Minitab	-	version 17; to conduct statistical analysis; any statistical analysis software can be used
Nylon mesh sheet	Sefar Nitex	-	model B0043D1TVY, opaque white, 200 microns mesh; to make a flypub
Petri dishes	Falcon	08-757-100A	35 x 10 mm; to deliver ethanol
Plastic funnel - mid size	Fisher scientific	10-348A	65 mm diameter and 67 mm height; to transfer sedated flies from a flypub into a food vial
Plastic funnel - small	Fisher scientific	07-202-121	4 mm diameter and 46 mm height; to transfer flies from a vial into a flypub
Polycarbonate sheet	Lexan	-	0.762 mm thickness, clear, 610 x 1220 mm Nominal; to make a flypub
Round-bottom bottle	Fisher scientific	AS115	polypropylene, 103 mm height, 60 mm diameter and 177 ml capacity; to make a flypub
Soldering iron	Weller	WES51	to make a hole in a flypub
Time code	-	-	.smi file, a subtitle ticking timecode created in Han lab; to monitor time during courtship scoring; any time subtitles may be used
<i>Tyramine β hydroxylase (tβh)</i>	-	-	mutant fly strain (<i>nM18</i> null allele)deficient in <i>tβh</i> in the wild-type <i>Canton-S</i> background ; obtained from Dr. Andreas Thum (University of Leipzig, Leipzig, Germany)

VLC media player	VideoLAN	-	version 3.0.8; any media player can be used to score courtship
------------------	----------	---	--