

Materials List for:

# A Method to Test the Effect of Environmental Cues on Mating Behavior in *Drosophila melanogaster*

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## Materials

Name	Company	Catalog Number	Comments
<b>Cabinet</b>			
Stainless steel kitchen cabinet	Horecaworld	7412.0105	
White LEDs	Lucky Light	ll-583wc2c-001	Cold white, 20 mA and 2 V
Red LEDs	Lucky Light	ll-583vc2c-v1-4da	Wavelength between 625 nm, 20 mA and 6 V
Resistor	Royal Ohm	CFR0W4J0561A50	560 ohm, 0.25 W, 250 V and 5 % tolerance
Smartphone light meter app	Patrick Giudicelli		Light/Lux Meter FREE, version 1.1.1
Power timer	Alecto	TS-121	
Metal brackets			Sharp angle 5 by 5 mm, 2 x 5450 and 1 x 1100 mm long
Frosted glass plate			1190 x 545 x 5 mm
Filter paper sheets	LEE filters	220	White frost
Small fan	Nanoxia Deep silence	4260285292828	80 mm Ultra-Quiet PC Fan, 1200 RPM
Big fan	Nanoxia Deep silence	4260285292910	120 mm Ultra-Quiet PC Fan, 650-1500 RPM
Webcam camera	Logitech	950270	B910 HD WEBCAM OEM, Angle: 78-degree, resolution: 5-million-pixel
Camera software	DeskShare		Security monitor pro
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<b>Fly rearing</b>			
Fly rearing bottles	Flystuff	32-130	6oz <i>Drosophila</i> stock bottle
Flypad	Flystuff	59-114	
Wild-type flies			Canton-S
Fly rearing vials	Dominique Dutscher	789008	<i>Drosophila</i> tubes narrow 25x95 mm
Incubator	Sanyo	MIR-154	
Magnetic hot plate	Heidolph	505-20000-00	MR Hei-Standard
Agar	Caldic Ingredients B.V.	010001.26.0	
Glucose	Gezond&wel	1019155	Dextrose/Druivensuiker
Sucrose	Van Gilse		Granulated sugar
Cornmeal	Flystuff	62-100	
Wheat germ	Gezond&wel	1017683	
Soy flour	Flystuff	62-115	

Molasses	Flystuff	62-117	
Active dry yeast	Red Star		
Tegosept	Flystuff	20-258	100%
Peptone (bacto)	BD	211677	
Acetic Acid	Merck	1000631000	Glacial, 100%
Small petridish	Greiner bio-one	627102	35 x 10 mm with vents
Paraffin film	Bemis NA		Parafilm
<b>Name</b>	<b>Company</b>	<b>Catalog Number</b>	<b>Comments</b>
<b>Yeast and pressurised air set-up</b>			
Big petridish	Gosselin	BP140-01	140 x 20.6 mm
Ultrapure water	Millipore corporation		MiliQ
Yeast extract	BD	212750	
Agar (pure)	BD	214530	bacto
Glucose (0(+)-glucose monohydrate)	Merck	18270000004	
Open caps	Schott	29 240 28	GL45
Silicone septum	VWR	548-0662	
Barbed bulkhead fittings	Nalgene	6149-0002	
Large PVC tubing			diameter: outer 1.2 cm and inner 0.9 cm
Small PVC tubing			diameters: outer 0.8 cm and inner 0.5 cm
15 ml tube	Falcon		
Aquarium pump	Sera precision		Sera air 110 plus, AC 220-240 V, 50/60 Hz, 3 W and pressure>100 mbar
Activated charcoal	Superfish	A8040400	Norit activated carbon
Disposable filter unit	Whatman	10462100	
Serological pipettes	VWR	612-1600	
Syringe	BD Plastipak	300013	
Hot glue	Pattex		
Syringe filter	Whatman		FP 30/pore size 0.45 mm CA-S
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<b>Analysis</b>			
Statistics software	R		lme4 package