

Materials List for:

# Experimental Protocol for Using *Drosophila* As an Invertebrate Model System for Toxicity Testing in the Laboratory

Elizabeth K. Peterson<sup>1,2</sup>, Hugh E. Long<sup>1,2</sup>

<sup>1</sup>Communities for Building Active STEM Engagement, Colorado State University-Pueblo

<sup>2</sup>Department of Biology, Colorado State University-Pueblo

Correspondence to: Elizabeth K. Peterson at [elizabeth.peterson@csupueblo.edu](mailto:elizabeth.peterson@csupueblo.edu)

URL: <https://www.jove.com/video/57450>

DOI: [doi:10.3791/57450](https://doi.org/10.3791/57450)

## Materials

| Name  | Company  | Catalog Number | Comments  |
|---|--|----------------|---|
| Carolina Biological Instant <i>Drosophila</i> Medium Formula 4-24                 | Carolina Biological  | 173204         |   |
| <i>Drosophila</i> vials, Narrow (PS), Polystyrene, Superbulk, 1000 vials/unit     | Genessee Scientific  | 32-116SB       | Used to store flies   |
| Flugs Closures for vials and bottles, Narrow plastic vials                        | Genessee Scientific  | 49-102         | Used to store flies   |
| Cardboard trays, trays only, narrow   | Genessee Scientific  | 32-124         | Used to organize populations of flies   |
| Cardboard trays, dividers only, narrow  | Genessee Scientific  | 32-126         | Used to organize populations of flies   |
| Thermo Scientific Nalgene Square Wide-Mouth HDPE Bottles with Closure             | Fischer Scientific   | 03-312D        | Useful for storage of contaminants  |
| Thermo Scientific Nalgene Color-Coded LDPE Wash Bottles                           | Fischer Scientific   | 03-409-17C     | Useful for storage of contaminants  |
| Eppendorf Repeater M4 Manual Handheld Pipette Dispenser                           | Fischer Scientific   | 14-287-150     | Used to prepare medium  |
| Combitips Advanced Pipetter Tips - Standard, Eppendorf Quality Tips               | Fischer Scientific   | 13-683-708     | Used to prepare medium  |
| Flypad, Standard Size (8.1 X 11.6cm)  | Genessee Scientific  | 59-114         | Used to anesthetize flies   |
| Flystuff foot valve   | Genessee Scientific  | 59-121         | Used to anesthetize flies   |
| Tubing, green (1 contiguous foot/unit)  | Genessee Scientific  | 59-124G        | Used to anesthetize flies   |
| Mineral Oil, Light, White, High Purity Grade, 500 mL HDPE Bottle                  | VWR  | 97064-130      | Used to make a morgue   |
| Glass Erlenmeyer Flask Set - 3 Sizes - 50, 150 and 250ml, Karter Scientific 214U2 | Walmart  | Not applicable | Used to make a morgue   |
| BGSET5 Glass Beaker Set Of 5  | Walmart  |                |   |
| Inbred or wildtype line of <i>Drosophila</i>                                      | Bloomington <i>Drosophila</i> Stock Center at Indiana University |                | <a href="https://bdsc.indiana.edu">https://bdsc.indiana.edu</a>   |
| Wild populutions of <i>Drosophila</i>   | UC San Diego <i>Drosophila</i> Stock Center                      |                | <a href="https://stockcenter.ucsd.edu/info/welcome.php">https://stockcenter.ucsd.edu/info/welcome.php</a> |