**Materials List for:**

# Assaying Blood Cell Populations of the *Drosophila melanogaster* Larva

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## Materials

| Name | Company | Catalog Number | Comments |
|---|---|---|---|
| 6 cm/9 cm Petri dishes | | | One for each genotype to be evaluated |
| Water squirt bottle | | | |
| Metal spoon/spatula | | | |
| Thin paintbrush | | | *e.g.,* a "liner" |
| Glass cavity dish | | | |
| PAP pen: Super PAP PEN IM3580 | Beckman Coulter | | |
| Glass slides | | | Each slide will have 5 or more PAP PEN squares drawn on them. Size of squares depends on the imaging objective and magnification of the microscope camera; *e.g.,* 2 mm squares. |
| Moist chamber | | | This will be used to prevent slides and wells from drying out: sealed container with wet paper towels lining the sides/bottom |
| Schneider's *Drosophila* cell culture media | Invitrogen | | |
| Cold block | | | This is a metal block (a.k.a. heating block) chilled in bucket containing ice; preferably black-colored or other dark, non-reflective color |
| 2 x 1 ml syringes with needles (27 G ½") | Becton Dickinson | | For dissections. |
| Optional: Surgical spring scissors (cutting edge 2 mm) | Fine Science Tools | | |
| Glass beads, 212 - 600 µm | Sigma | | |
| 2 ml Eppendorf tubes | Eppendorf | | One per genotype evaluating |
| Vortex mixer | Fisher Scientific | | |
| Transgenic Drosophila larvae with fluorescently marked hemocytes. | | | Suitable transgenes include: HmlΔ-DsRed (Makhijani *et al.,* 2011), MSNF9mo-mCherry (Tokusumi *et al.,* 2009), BcF6-CFP and -GFP (Gajewski *et al.,* 2007), or HmlΔ-GAL4 (Sinenko and Mathey-Prevot, 2004), Pxn-GAL4 (Stramer *et al.,* 2005), He-GAL4 (Zettervall *et al.,* 2004), Crq-GAL4 (by H. Agaisse (Stramer *et al.,* 2005)), or eater-GAL4 (Tokusumi *et al.,* 2009) combined with UAS-GFP or other fluorescent protein transgenes. |

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|---|---|---|---|
| Fluorescence dissecting microscope | Leica | | Here: Leica M205, optional with camera, imaging software and measuring module |
| Inverted fluorescence microscope with camera attachment | Leica or Keyence | | With or without tile scanning function (*e.g.*, Leica DMI series, Keyence BIOREVO BZ-9000 series) |