

Drosophila melanogaster- Cross breeding flies



This is a great activity to do in class where students can individually select two different parent groups and cross them to observe the phenotype of the offspring.

1. Select at least 5 females of one type of phenotype and 5 male of another phenotype. You may also want to cross the reverse to see what happens e.g. sex linked genes.

e.g. wild type females and white eyed males and reverses; scarlet eyed females and white eyed males; vestigial wing females and wild type males....

2. Be sure to collect your female as virgins, just after they emerge from the pupa stage so they will not be impregnated prior to the cross.

3. After about a week you will see the first cross.

4. When you have enough offspring anaesthetise them and sort them into their different sex groups. Record their phenotypes.

5. Record your results in a table and graph.

Reference

<http://www.drosophila.moonfruit.com/>

http://tolweb.org/treehouses/?treehouse_id=4164#intro