

Fruit Fly Exercise 1- Level 1

Description of StarGenetics

In this exercise you will use StarGenetics, a software tool that simulates mating experiments, to analyze the nature and mode of inheritance of specific genetic traits.

Getting started with StarGenetics

- To get to StarGenetics, please navigate to: <http://web.mit.edu/star/genetics/>.
- Click on the **Start** button to launch the application.
- Click **Trust** when a prompt appears asking if you trust the certificate.
- Click on **File → New** in the drop-down menu in the upper left hand corner.
- Click on the **Fruit Fly Exercise 1-Level 1** file.

You have begun a research project in a genetics laboratory that studies the fruit fly *Drosophila melanogaster*. Your research advisor decides to give you an interesting mutant fly called *grounded* that has just been discovered in one of the fly vials in the lab. In addition, you are also given two true-breeding wild-type flies (male and female). All 3 flies can be found within the **Strains box**.

1 First, describe the sex and phenotype of the mutant fly. Describe the phenotype as it compares to wild type.

- The sex and phenotype of each fly should be visually obvious. You can also obtain this information by clicking on the fly and looking at the **Properties** window.

Answer

2 You want to determine the genotype of *grounded*. You are unsure whether its phenotype is caused by a dominant or recessive allele. You are also not sure if *grounded* is true-breeding or not. To determine its genotype, cross *grounded* with one of the wild-type flies.

- Set up a cross between *grounded* and a wild-type fly by dragging each to the **Mating Site** and by clicking on the **Mate** button.
- Each resulting offspring can be viewed within the **Individual** tab or a summary of the results is available on the **Summary** tab.

Answer

Number of F1 flies that look like the wild-type parent: _____

Number of F1 flies that look like the *grounded* mutant parent: _____

Total number of progeny generated: _____

% of progeny that is wild type: _____

% of progeny that is mutant: _____

Circle the ratio that best fits the progeny that you observe.

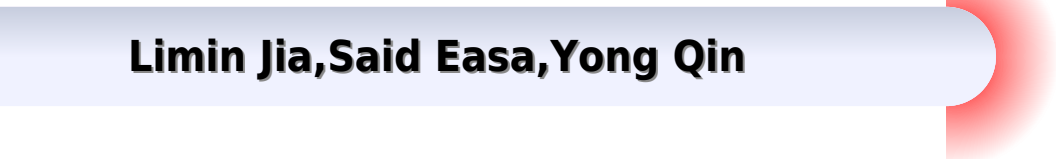
3 WT : 1 mutant

1 WT : 1 mutant

1 WT : 3 mutant

Star Genetics Answers To Exercise 1

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