

Fruit Fly Exercise 1- Level 1

Description of StarGenetics

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

Getting started with StarGenetics

- To get to StarGenetics, please navigate to: <http://hlab.mh.hawaii.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 + Open** 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 adviser 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 *non-mating* 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 *autosomal* 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

Hhmi Star Genetics Fruit Fly Exercise Answers

David Kirk



Hhmi Star Genetics Fruit Fly Exercise Answers:

The Enigmatic Realm of **Hhmi Star Genetics Fruit Fly Exercise Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Hhmi Star Genetics Fruit Fly Exercise Answers** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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