

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

Arturo Cuomo



Star Genetics Answers To Exercise 1:

Adopting the Beat of Appearance: An Mental Symphony within **Star Genetics Answers To Exercise 1**

In a world consumed by monitors and the ceaseless chatter of instantaneous transmission, the melodic beauty and psychological symphony produced by the written term usually diminish into the backdrop, eclipsed by the relentless sound and distractions that permeate our lives. Nevertheless, located within the pages of **Star Genetics Answers To Exercise 1** a charming literary value brimming with natural feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant composer of language, that captivating masterpiece conducts visitors on a mental trip, skillfully unraveling the hidden tunes and profound affect resonating within each carefully crafted phrase. Within the depths with this touching analysis, we will discover the book is key harmonies, analyze its enthralling publishing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

http://www.frostbox.com/data/Resources/default.aspx/Tank_Scooter_150cc_Wiring_Schematic.pdf

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