

Biology 11A Lab #5 Genetics and Inheritance

Pre-Lab Questions Complete sentences as always!

1. Give an *example* of the following terms. You are not writing a definition.

- Genetic trait
- Genotype
- Phenotype
- Dominant trait
- Recessive trait

2. Make a *drawing* that includes these labels:

- Gene
- Allele
- chromosome
- chromatid
- homologous pairs of chromosomes

Movie Discussion: The Human Race PBS

Lab #5: Genetics & Inheritance

Work in groups of two

This lab is designed to demonstrate **genetics**, or the study of how heritable characteristics are passed from generation to generation. Genetic traits are determined by **genes**, or small segments of DNA carried on chromosomes that determine physical characteristics. This exercise demonstrates how different alleles of the same gene segregate and reassort (separate and come together) in a population.

Summary of Activities

- Demonstrate some of Mendel's principles of genetics by simulating different types of mating crosses.
- Examine at the effect of natural selection on the frequency of alleles in a population.
- Observe some single-gene genetic traits in humans.

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I. Human Genetic Traits

Some human traits exhibit the simple dominant and recessive behavior of a monohybrid cross similar to Mendel's peas. However, the expression of many other human traits, like skin color or height, is much more complex and the genetics cannot be easily studied. We will look at a few easily observed

human genetic traits to illustrate the simple dominant-recessive relationship between alleles in humans.

Gene frequencies for a population will not necessarily show the same dominant/recessive ratios that you see for the offspring of a specific mating pair. When we calculate gene frequency, it is unlikely that we will have a 3:1 ratio of dominant traits to recessive traits. In our case, it is probably due more to small sample size than anything else. If you had a large immediate family to survey, these should segregate in a more classically Mendelian fashion.

- Mark your appropriate phenotype for each trait on the chart.
- Record the data for the class.

Human Inheritance Lab 35 Answer Key

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