

Lab – Investigating Inherited Traits

Name _____

Introduction

Heredity is the passing on of traits from parent to offspring. The genetic makeup of an individual is known as its genotype. The physical characteristics of an individual, which are the result of its genotype and its environment, are known as its phenotype.

Some alleles are expressed only when the genotype is homozygous. These alleles are said to produce recessive phenotypes. Alleles that are expressed whether the genotype is homozygous or heterozygous produce dominant phenotypes. An allele that codes for a dominant trait is represented by a capital letter, while an allele that codes for a recessive trait is represented by a lowercase letter. Sometimes when the genotype is heterozygous, neither the dominant nor the recessive phenotype occurs. In this situation, called incomplete dominance, an intermediate phenotype is produced.

In humans, the sex of an individual is determined by the particular combination of two chromosomes called the sex chromosomes. Individuals who have two X chromosomes (XX) are females, whereas those who have an X and a Y chromosome (XY) are males. In this investigation, you will observe how the results of different allele combinations produce certain traits.

Problem

How are traits inherited?

Pre-Lab Discussion

Read the entire investigation. Then, work with a partner to answer the following questions.

- 1) What does a single side of a double-sided coin or disk represent?
- 2) What is the probability, in percent, that a single coin toss will result in heads? In tails?
- 3) Why is a coin toss a good way to represent allele combinations that occur in nature?
- 4) For the traits explored in this lab, do all heterozygous pairs of alleles produce an intermediate phenotype?
- 5) Can you accurately determine an organism's genotype by observing its phenotype? Explain your answer.

Laboratory Manual A Investigating Inherited Traits

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