

Introduction to Genetics**Investigating Inherited Traits****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?

Each single side of a coin or disk represents one of two possible alleles.

2. What is the probability, in percent, that a single coin toss will result in heads? In tails?

50-50.

Investigating Inherited Traits Biology Lab Manual

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