

## 17.1 Genes and Variation

### Learning Objectives

- LO1 Defining variation in genetic terms.
- LO2 Identify the major sources of genetic variation in a population.
- LO3 Trace inheritance from the crossing and phenotypes the parent.

### Learning Objectives

**Genotype: Autosomal Recessive Inheritance** Thomas's original ideas concerned the inheritance of genetic traits.

Thomas first theorized that traits are controlled by genes and that every gene has at least two forms, or alleles.

The combination of different alleles is an individual's genotype.

Thomas introduced the **PRINCIPLE OF DOMINANCE**—dominant

traits are expressed and recessive are hidden in a population.

Individuals of a population have a mixture of pairs of genes, called **genetic pairs**.

**Allele frequency** is the number of alleles in a population's genetic pairs.

Alleles may change in one offspring in the allele frequency in a population.

**Genotype and Phenotype Variation** The three basic sources of genetic variation are mutations, genetic recombination during sexual reproduction, and biological evolution.

a. A mutation is any change in a sequence of DNA.

Three important differences are how to generate mutations that are passed on to offspring.

That occurs during natural selection with differences of a few copies independently.

That's how mutations are passed during meiosis when in a cell.

**Genetic gene transfer** is the passing of genes between organisms, another important to inheritance. (Example: **transposon insertion**)

**Simple Mendel's inheritance** tracks the number of different alleles the gene has and how often they occur. Genes are passed to each.

A single gene trait is controlled by one gene. An example is coat color in horses or flower color in pea plants.

A polygenic trait is controlled by several genes. It's controlled by two or more genes, and each gene affects the final trait differently.

An example of a human polygenic trait is height and skin color in humans.

# Gene And Variation 17 1 Key

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