

# Comprehensive Guide to Mendelian Genetics and Inheritance

## Mendelian Genetics and Inheritance

Mendelian genetics explains inheritance based on **particulate units called genes**, with **alleles** inherited from each parent. These alleles **segregate** during meiosis, resulting in **discrete phenotypes** as observed in Mendel's classic pea plant experiments. Mendel's work demonstrated that traits are inherited in **predictable patterns**, challenging the previous idea of **blending inheritance**. Instead, traits are passed as **separate units**, maintaining their integrity across generations. This particulate inheritance explains how traits like **flower color**, **seed shape**, and other characteristics are inherited and expressed in offspring.

## Mendel's First Law: Law of Segregation

This fundamental law states that **allele pairs segregate during gamete formation**, so each gamete (sperm or egg) contains **only one copy** of each gene. During meiosis, homologous chromosomes separate, ensuring that alleles are distributed randomly to each gamete. Consequently, in a monohybrid cross, the **3:1 phenotypic ratio** in the F<sub>2</sub> generation arises because heterozygous individuals produce both dominant and recessive alleles in their gametes. For example, crossing a heterozygous plant (Rr) with another Rr plant yields:

- 25% homozygous dominant (RR)
- 50% heterozygous (Rr)
- 25% homozygous recessive (rr)

Phenotypically, this results in **75% showing the dominant trait** and **25% the recessive trait**.

# Biology Modules Mendelian Inheritance Study Guide

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