

# Lab 14 Mendelian Genetics

## Learning Objectives

- Explain how Mendel's work formed the foundation of modern genetics including the law of segregation and the law of independent assortment
- Relate genes to homozygous, heterozygous, dominant alleles, recessive alleles, genotype and phenotype
- Use monohybrid and dihybrid crosses to analyze patterns of inheritance including dominance, incomplete dominance and co-dominance

### Introduction

In 1866, Gregor Mendel (an Austrian Monk), published a paper entitled "Experiments in Plant Hybridization". It went largely unnoticed until 1900 when it was "rediscovered" and subsequently became the basis for what we now refer to as **Mendelian Genetics**. Mendel was the first to recognize:

- Inherited characteristics are determined by specific factors (now recognized as genes).
- These factors occur in pairs (homologous genes).
- When gametes form, these factors segregate so that each gamete contains only one.

### The Law of Independent Assortment

These original observations lead to what we now refer to as **The law of segregation** and the **law of independent assortment**. The law of segregation states that during meiosis, homologous (paired) chromosomes split. The law of independent assortment states that during meiosis, each homologous chromosome has an equal chance of ending up in either gamete, and alleles for individual genes segregate with the chromosomes on which they are located (Figure 1). The law of independent assortment allows for genetic recombination. The following equation can be used to determine the total number of possible genotype combinations for any particular number of genes:



Figure 1: Law of Independent Assortment.

$2^g$  = Number of possible genotype combinations (where "g" is the number of genes)

- 1 gene:  $2^1 = 2$  genotypes
- 2 genes:  $2^2 = 4$  genotypes
- 3 genes:  $2^3 = 8$  genotypes



# Mendelian Genetics Lab 14 Answers

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