

Lab 9: Mendelian Genetics

Part 1: Terminology

Beginning students of biology always learn about Mendelian genetics. Inevitably, the study of inheritance always leads to additional questions. In fact, Mendelian inheritance patterns are exceedingly rare, especially in humans. We now know that inheritance is much more complex, usually involving many genes that interact in varied ways. Nonetheless, a clear understanding of basic inheritance patterns that follow Mendel's original observations will provide a springboard for understanding current scientific exploration.

Inheritance patterns that follow Mendelian rules are as follows:

- Traits are governed by single genes
- There are two alternate forms of a gene, known as alleles
- Alleles are expressed as dominant and recessive

It just so happened that the traits Gregor Mendel observed in his pea plants did indeed conform to these rules. After collecting and analyzing his data, Gregor Mendel developed 2 laws of inheritance: The Law of Segregation and the Law of Independent Assortment.

1. Describe these laws below:

A. The Law of Segregation

Alternative alleles of a characteristic segregate independently during meiosis

B. The Law of Independent Assortment

Genes located on different chromosomes assort independently from one another.

2. Before you can work with problems involving Mendelian inheritance, you need to be comfortable with the following terms:

Diploid

2 matched sets of chromosomes

Haploid

1 set of chromosomes

Allele

The specific variation of a gene

Dominant

A dominant trait will be inherited unchanged in a hybridization. The dominant allele is the variety of the gene that will produce the dominant trait.

Recessive

A recessive trait will disappear in the offspring in a hybridization. The recessive allele is the variety of the gene that will produce the recessive trait.

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S Ashworth



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