

17.1 Genes and Variation

Genetics Joins Evolutionary Theory

Genetics Joins Evolutionary Theory

Gregor Mendel's experiments with pea plants demonstrated segregation.

- 1. Mendel's experiments demonstrated that traits are controlled by genes and that these genes behave in predictable ways. In other words, there is a predictable relationship between the genotype (genetic makeup) and the phenotype (observable traits).
- 2. Mendel's experiments demonstrated that traits are inherited in a predictable way. In other words, the inheritance of a trait is determined by the genotype (genetic makeup) and the phenotype (observable traits).
- 3. **Mendel's Law of Segregation:** In the inheritance of a trait, the alleles (versions of a gene) separate independently of other alleles. Each offspring has the same probability of inheriting a particular allele from each parent.

Genetics and Evolutionary Theory: Mendel's experiments demonstrated that traits are inherited in a predictable way, which is consistent with the theory of evolution. This is because the inheritance of a trait is determined by the genotype (genetic makeup) and the phenotype (observable traits).

- 1. **Evolution:** is a change in the frequency of alleles (versions of a gene) in a population over time.
- 2. **Genetic Variation:** is the difference in the genetic makeup of individuals within a population. This variation is the raw material for evolution. It is caused by mutations (changes in the DNA sequence) and by recombination (the shuffling of genes during meiosis).
- 3. **Selection:** is the process by which certain alleles are favored over others, leading to a change in the frequency of those alleles in the population.

Single Gene and Polygenic Traits: Mendel's experiments demonstrated that traits are inherited in a predictable way, which is consistent with the theory of evolution. This is because the inheritance of a trait is determined by the genotype (genetic makeup) and the phenotype (observable traits).

- 1. **Single Gene Trait:** is controlled by a single gene. An example is the inheritance of the trait of pea color (yellow or green).
- 2. **Polygenic Trait:** is controlled by multiple genes. An example is the inheritance of the trait of human height, which is determined by many genes.

Genetics Joins Evolutionary Theory

The following are the key concepts that underpin the theory of evolution:

- 1. **Mendel's Law of Segregation:** In the inheritance of a trait, the alleles (versions of a gene) separate independently of other alleles. Each offspring has the same probability of inheriting a particular allele from each parent.
- 2. **Mendel's Law of Independent Assortment:** In the inheritance of two or more traits, the alleles for each trait separate independently of the alleles for the other trait.
- 3. **Mendel's Law of Dominance:** In the inheritance of a trait, the dominant allele (version of a gene) masks the effect of the recessive allele (version of a gene).
- 4. **Mendel's Law of Recombination:** In the inheritance of a trait, the alleles for each trait are shuffled together during meiosis, creating new combinations of alleles.

Genes And Variation 17 1 Answers

Yan Bai



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