

## 17.1 Genes and Variation

### Genetics Joins Evolutionary Theory

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Gregor Mendel's original ideas on how hereditary information is passed:

- 1. Hereditary information that comes from parents are controlled by genes and that these genes have a hereditary basis in cells. The hereditary information is an individual's genotype. Genotype is the genetic information that is passed on to the offspring.
- 2. Genes are passed on to the offspring in a predictable manner. Genotype of a population that is a constant group of genes, called a gene pool.
- 3. **Allele frequency**: is the number of copies of an allele in a gene pool. Allele frequency is the number of copies of an allele in a gene pool. Allele frequency is the number of copies of an allele in a gene pool. Allele frequency is the number of copies of an allele in a gene pool.

**Examples of Genetic Variation** Hereditary variation is passed on to the offspring. Genetic variation is passed on to the offspring. Genetic variation is passed on to the offspring.

- 1. Alleles are passed on to the offspring in a predictable manner. Alleles are passed on to the offspring in a predictable manner. Alleles are passed on to the offspring in a predictable manner.
- 2. Alleles are passed on to the offspring in a predictable manner. Alleles are passed on to the offspring in a predictable manner. Alleles are passed on to the offspring in a predictable manner.

**Single Gene and Polygenic Traits** Hereditary information is passed on to the offspring. Hereditary information is passed on to the offspring. Hereditary information is passed on to the offspring.

- 1. In single gene traits, the trait is controlled by one gene. An example is the trait of having a certain blood type.
- 2. In polygenic traits, the trait is controlled by more than one gene. An example is the trait of having a certain height.

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Hereditary information is passed on to the offspring. Hereditary information is passed on to the offspring. Hereditary information is passed on to the offspring.

- 1. Hereditary information is passed on to the offspring. Hereditary information is passed on to the offspring. Hereditary information is passed on to the offspring.
- 2. In single gene traits, the trait is controlled by one gene. An example is the trait of having a certain blood type.
- 3. In polygenic traits, the trait is controlled by more than one gene. An example is the trait of having a certain height.
- 4. The number of copies of an allele in a gene pool is called the allele frequency. Allele frequency is the number of copies of an allele in a gene pool. Allele frequency is the number of copies of an allele in a gene pool.

# Genes And Variation 17 1 Summary

**Michael Seilmaier**



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