

17.1 Genes and Variation

Genetics Joins Evolutionary Theory

Genetics Joins Evolutionary Theory

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 offspring.
- 2. Genes are passed on to offspring in populations. Individuals in a population share a common group of genes, called a gene pool.
- 3. **Allele frequency**: is the number of copies of an allele present in a gene pool. Allele frequency is the number of copies of an allele that is passed on to offspring. Allele frequency is the number of copies of an allele that is passed on to offspring.

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

- 1. Alleles are passed on to offspring. Alleles are passed on to offspring. Alleles are passed on to offspring. Alleles are passed on to offspring.
- 2. Alleles are passed on to offspring. Alleles are passed on to offspring. Alleles are passed on to offspring. Alleles are passed on to offspring.
- 3. Alleles are passed on to offspring. Alleles are passed on to offspring. Alleles are passed on to offspring. Alleles are passed on to offspring.

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

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

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

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

Genes And Variation 17 1 Summary

J Rink



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