

17.1 Genes and Variation

Lesson Objectives

- LO1 Define variation in genetic terms.
- LO2 Identify the sub-systems of genetic variation in a population.
- LO3 Show when necessary the number of phenotypes for a trait.

Lesson Summary

Quantitative versus Qualitative Theory: Mendel's original ideas were seen for qualitative genetic traits.

- 1. Mendel's theory showed that traits are controlled by genes and that every gene has an alternative form, or allele. The combination of different alleles in an individual's genotype formed different sets of phenotypes, or traits.
- 2. Genetic variation and inheritance are studied in populations. Mendel's idea of a population often a natural group of genes called a **gene pool**.
- 3. **Allele frequency** is the number of times an allele occurs in a gene pool. It is equal to the number of times that allele for the trait occurs in the gene pool. Allele frequency is calculated by dividing the number of alleles for a trait by the number of alleles in a population.

Number of Genetic Variations: The basic units, number of genetic variation are sometimes, given a combination having several possibilities, not based on a number.

- 1. A number is not always a 1 number of DNA.
- 2. Some heritable differences are due to genetic recombination during sexual reproduction. The number of alleles, their order, combination in each genome (diploid state). Genetic recombination also means things are changing in a genome.
- 3. **Genotype** is the genetic composition of an organism. Another organism that is not in offspring.

Single Gene and Polygenic Traits: The number of different phenotypes for a gene and how many alleles that gene has, called the trait.

- 1. A **single gene** trait is controlled by one gene. An example is sickle cell anemia in humans or coat color in mice.
- 2. A **polygenic** trait is controlled by two or more genes, and each gene affects the trait in a specific way. An example is human pigmentation and height.

Quantitative versus Qualitative Theory

For Quantitative 1-4, complete each statement by writing the correct word or words.

- 1. Mendel's theories were on the inheritance of _____ rather than the _____.
- 2. His _____ consisted of the genes, including the alleles for each gene, that are present in a population.

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Disha Experts



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Platelets, Haemostasis and Inflammation Andreas Zirlik,Christoph Bode,Meinrad Gawaz,2017-12-21 The book depicts the various roles of platelets in a variety of cardio metabolic diseases Traditional and non traditional platelet functions are described in detail in atherosclerosis metabolic syndrome diabetes myocardial infarction and other vascular pathologies Particular focus is put on platelets as a link between haemostasis and inflammation contributing to both Last but not least the books links the most recent advances in basic sciences with promising novel therapeutic applications and first results of clinical trials The book is written for biomedical scientists in the sub disciplines vascular biology biochemistry and immunology and it as well will be of interest and value for academic physicians like cardiologists hematologists general internists and vascular surgeons

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