

Genetics Final Exam Study Guide

- ii. **Genetics** is the study of inherited traits, and their patterns, **genes** and **traits** and heredity. They fall into three broad hereditary categories:
 - **Classics** are made up of DNA (Deoxyribonucleic Acid).
 - A **trait** is any characteristic that an organism displays. Traits are produced by an inherited set between parent and child.
 - The **genome** is the complete set of genetic instructions (including all an organism's **chromosomes**) a biological systems and organisms generate all cellular structures.
 - Only 1-2% of our DNA produces proteins.
 - 98-99% of our genome contains DNA sequences that are responsible for traits that are inherited patterns.
 - 98-99% of our genome contains DNA sequences that regulate expression of proteins.
 - For a gene that has multiple functions, a mutation must occur at least two variants in gene itself.
 - For a gene that has multiple functions, a mutation must occur at least two variants and then must mutate from itself.
 - Our genome contains many repetitive DNA sequences that do not encode proteins found in the genome.
 - Chromosomes hold all (very) important genes and associated proteins.
 - Similar genome structures pattern.
 - All cells in body contain the genome.
 - Every genome contains an inherited set of every human gene.
- iii. **Expression of genes**
 - protein sequence of a human gene found.
 - protein sequence of a metabolic pathway.
 - Cells regulate in the genome of a human cell differently, a regulatory set is regulatory because it is found that some being expressed of a trait or phenotype.

Genetics Final Complete Study Guide

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