

# 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 vital instructions, patterns of cellular structure.
  - Only 1-2% of our DNA produces proteins.
  - 98-99% of our genome contains DNA sequences that are just "redundant features that don't encode proteins."
  - 98-99% of our genome contains DNA sequences that regulate expression of proteins.
  - For a gene that encodes a structure, a mutation must occur at that gene location in the DNA.
  - For a gene that encodes a function, a mutation must occur at that gene location and then must mutate that gene.
  - The 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 exist.
  - All cells in body contain the genome.
  - Every genome contains an "extra" copy 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 site is regulatory because it's like a switch that can be regulated off or on as necessary.

# Genetics Final Complete Study Guide

**RM Cervero**



## **Genetics Final Complete Study Guide:**

## **Genetics Final Complete Study Guide** Book Review: Unveiling the Power of Words

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