

Chapter 1: Human Genome

1.1. INTRODUCING GENES AND GENOME

- **Genetics** – study of heredity, traits and their variations.
 - study of how traits are transmitted.
- **Heredity** – transmission of traits and biological information.
- **Genes** – basic unit of heredity.
 - instruct cell's production of proteins.
 - consist of long DNA.
 - provide-encoding genes are scattered among 3.2 billion DNA bases in each set of chromosomes.
- **Phenotype** – control the characteristics of every individual.
- **DNA (Deoxyribonucleic Acid)** – transmits information in sequence of nitrogenous bases.
- **Genome** – make up of complete set of genetic instructions characteristic of each an organism.
 - all of our cells contain two sets copies of genome.
- **Genetics** – scientific field that analyzes genomes.
 - reveals how closely related are different species.

1.2 LEVELS OF GENETICS AND GENOMICS

- **DNA (Deoxyribonucleic Acid)**
 - Shape: double helix
 - Consist of: alternating sugar and phosphates
 - Function: provide information to manufacture specific proteins



- 4 types of nitrogenous bases:
 - Adenine (A) and Thymine (T)
 - Cytosine (C) and Guanine (G)
 - Each set of these complementary bases is a code for a particular amino acid.
- **Amino Acid** – building blocks of protein.
 - align and link like snap beads forming protein

1.3. THREE PROCESSES OF ACCESSING GENETIC INFORMATION

- **DNA replication** – (1) chains of double helix untwist and separate.
 - (2) each full helix is a new partner chain from two DNA bases.
- **Transcription** – (3) copies the sequence of one strand of DNA molecule into mRNA.
- **Translation** – (4) each 3 RNA bases is a new attract another type of RNA, that functions as a connector, bringing in a particular amino acid.
 - (5) Amino acids align and link to form protein.

1.2 THE HUMAN GENOME

- **20,125 protein-encoding genes** comprise the genome.
 - Accounts: 1.5 percent of human genome, 8.5 percent of known genetic diseases.
- **Alloles** ("gene variants") – some proteins – encoding genes may vary in DNA base sequence from person to person that is passed to the next generation.
- **Mutations** ("changed gene") – variation or change in genes, causing a disease.

1.3. INHERITED DISEASES

- **Cystic Fibrosis** – inherited disease
 - Change of a "C" to "T" inserts amino acid rather than the amino acid glycine which results to protein becoming abnormal
 - Cystic Fibrosis Transmembrane

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Curtis S. Adams



Chapter 1the Human Genome 342:

Solutions Manual for An Introduction to Genetic Analysis David Scott,2012 Since its inception Introduction to Genetic Analysis IGA has been known for its prominent authorship including leading scientists in their field who are great educators This market best seller exposes students to the landmark experiments in genetics teaching students how to analyze experimental data and how to draw their own conclusions based on scientific thinking while teaching students how to think like geneticists Visit the preview site at www.whfreeman.com/IGA10epreview

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as well as the diagnosis course and treatment of neuromuscular disorders The work will include neuroanatomy circuits and synapses It discusses how different parts of the brain contribute to motor control including both vestibular and cerebellar motor control as well as the influences of the parietal and frontal lobes Diagnostic methods include genetic evaluation electrodiagnosis pathology and brain imaging Neuromuscular disorders of both children and adults will be included Identifies normal motor control physiology and function including neuroanatomy circuits and synapses Discusses vestibular and cerebral motor control and contributions of parietal and frontal lobes Provides diagnostic methods including genetic evaluation electrodiagnosis brain imaging and pathology analyses Summarizes the diagnosis course and best practice treatment of neuromuscular disorders Explores neuromuscular disorders in adults and children **California Laws**

Relating to Genetic Disorders California,1977 **Statutes of California and Digests of Measures** California,1976

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