

Chapter 1 What Is in a Human Genome?

READINGS

Chapter Opener

What Information Is in a Human Genome?

Clinical Connection 1.1

Exome Sequencing Saves a Boy's Life

Bioethics: Choices for the Future

Genetic Testing and Privacy

CHAPTER OVERVIEW

Chapter 1 provides a glimpse of the basic concepts of genetics and genomics, and offers examples of DNA information impacting daily life. In this new era of genomics, individuals have access to their own genetic information, and health care providers are learning how to incorporate DNA data into diagnostic and therapeutic medicine. Bioethics deals with issues of privacy, discrimination, and justice that arise from use and misuse of genetic information. DNA, genes, chromosomes, and genomes are the levels of genetic information, and they impact biology at the cell, tissue, organ, individual, family, and population levels. Genes encode proteins, and the exome is the small part of the genome that does so. Most traits arise from interactions of genes and environmental factors. Genetic information is in health care to identify individuals, in investigating the environment, and in understanding evolution.

CHAPTER OUTLINE

1.1 Introducing Genes and Genomes

1. Genetics is a branch of biology concerned with inherited traits and their variation, and how these traits are passed from one generation to the next (heredity).
2. With continuing analysis of human genome sequences, human genetics has grown from a largely academic science to touch many areas of medicine, with practical and societal implications.
3. Genes are the unit of inheritance and are composed of DNA.
4. An organism's genome is its complete set of genetic information.
5. Genomics is a field of study that reveals how closely related we are to each other and to other species.
6. Bioethics is a field of study concerned with issues of privacy, confidentiality, and discrimination that arise from knowledge of our DNA sequences.

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VM Jensen



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