

Study Guide**CHAPTER 11****Section 1: Basic Patterns of Human Inheritance**

In your textbook, read about basic patterns of human inheritance.

Use the terms below to complete the passage. These terms may be used more than once.

albinism
heterozygous

alleles
homozygous

cystic fibrosis
pedigree

dominant
recessive

A (1) **PEDIGREE** shows the inheritance of a particular trait over several generations. An organism with two of the same (2) **ALLELES** for a particular trait is said to be (3) **HOMOZYGOUS** For that trait. An organism with two different (4) **ALLELES** for a particular trait is heterozygous for that trait. When alleles are present in the (5) **HETEROZYGOUS** state, the (6) **DOMINANT** _____ trait will be observable. An individual who is heterozygous for a (7) **RECESSIVE** disorder is called a carrier. Examples of recessive genetic disorders in humans are (8) **CYSTIC FIBROSIS** and (9) **ALBINISM**.

In your textbook, read about recessive and dominant genetic disorders.

Complete the table by writing the disease name for each description.

albinism
galactosemia

achondroplasia
Huntington's disease

cystic fibrosis
Tay-Sachs disease

Disease	Description
10. ALBINISM	caused by altered genes; results in lack of skin pigment
11. GALACTOSEMIA	recessive genetic disorder; characterized by body's inability to tolerate galactose
12. TAY-SACHS DISEASE	recessive genetic disorder; gene found on chromosome 15; characterized by lack of enzyme that breaks down fatty acids
13. CYSTIC FIBROSIS	recessive genetic disorder; affects mucus-producing glands, digestive enzymes, sweat glands
14. HUNTINGTON'S DISEASE	dominant genetic disorder; affects the nervous system
15. ACHONDROPLASIA	autosomal dominant genetic condition; affects height and body size

Study Guide Human Inheritance

Michael Cummings



Study Guide Human Inheritance:

Human Genetics, 1980 **Human Heredity** Michael R. Cummings, 2011 HUMAN HEREDITY 9e International Edition presents the concepts underlying human genetics in clear concise language and engages non Biology majors with examples that they can apply to themselves their families and their work environment Author Michael Cummings explains the origin nature and amount of genetic diversity present in the human population and how that diversity has been shaped by natural selection The artwork and accompanying media support visual learners by teaching rather than merely illustrating the ideas under discussion Examining the social cultural and ethical implications associated with the use of genetic technology Cummings prepares students to become well informed consumers of genetic based health care services or providers of health care services **Human Genetics** Edwin H. McConkey, 1993 Begins with molecular characterization of the human genome rather than the conventional descriptions of Mendelian inheritance pedigree analysis and chromosome abnormalities and maintains this emphasis on understanding human genetics in molecular terms throughout Suitable as a text for biology

Student Study Guide to Accompany Biology and Human Concerns, by E. Peter Volpe Peter A. Rosenbaum, 1993

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