

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

# Inheritance Patterns And Human Genetics Study Guide

**RM Cervero**



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