

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

JG Myers



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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Principles and Issues Michael Cummings,2013-01-01 Chapter summaries learning objectives and key terms along with multiple choice fill in the blank true false discussion and case study questions help students with retention and better test

results Prepared by Nancy Shontz of Grand Valley State University Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

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Teacher's Wraparound Edition: Two Biology Everyday Experience Albert Kaskel,1994-04-19 [Handbook of Genetics](#) Robert King,1975-12-01 The purpose of the first four volumes of the Handbook of Genetics is to bring together collections of relatively short authoritative essays or annotated compilations of data on topics of significance to geneticists Many of the essays will deal with various aspects of the biology of certain species or species groups selected because they are favorite subjects for genetic investigation in nature or the laboratory Often there will be an encyclopedic amount of information available on such species with new papers appearing daily Most of these will be written for specialists in a jargon that is bewildering to a novice and sometimes even to a veteran geneticist working with evolutionarily distant organisms For such readers what is needed is a written introduction to the morphology life cycle reproductive behavior and culture methods for the species in question What are its particular advantages and disadvantages for genetic study and what have we learned from it Where are the classic papers the key bibliographies and how does one get stocks of wild type or mutant strains Lists giving the symbolism and descriptions for selected mutants that have been retained and are thus available for future studies are provided whenever possible Genetic and cytological maps mitotic karyotypes and haploid DNA values are also included when available Volume 4 deals with certain vertebrate species that have been studied in considerable detail from the standpoint of genetics or molecular cytogenetics Such data are available for only a relatively few vertebrates

Human Heredity: Principles and Issues Michael Cummings,2010-09-16 HUMAN HEREDITY 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 Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

Advances in Human Genetics and Their Impact on Society Daniel Bergsma,1972 **Biological Sciences Curriculum Study Journal** Biological

Sciences Curriculum Study,1978 Student Edition Glencoe,2001-05 *Peterson's Annual Guides to Graduate Study* ,1983

A First Study of the Influence of Parental Alcoholism on the Physique and Ability of the Offspring Ethel M. Elderton,Karl Pearson,1910 **An Introduction to the Study of Experimental Medicine** Claude Bernard,1927 First English translation of the classical work on the principles of physiological investigation in life sciences

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