

Biology Chapter 14 *The Human Genome*

14.1 Human Heredity

I. Human Chromosomes

A. Looking at chromosomes

1. During mitosis, scientists look at chromosomes; photo; cut; paste in pairs
 - a. called karyotype (Fig 14-1; pg 341)
 - b. 23 pairs; 46 total
2. 2 Chromosomes are known as sex chromosomes
 - a. they determine an individual's sex
 - b. females = XX (larger)
 - c. males = XY (large, small)
3. Other 44 chromosomes are called autosomes
4. To quickly summarize total # of chromosomes in a human cell, scientists write 46XX (female) or 46XY (male)
5. Punnett Square explains why there is a 50:50 ratio of males:females (Fig 14-2; pg 342)

II. Human Traits

A. Human traits are not always controlled by a single gene; sometimes the environment may "create" a trait

1. Pedigree (Fig 14-3; pg 242)
 - a. chart that shows the relationships within a family
2. Example shows how a trait is transmitted through three generations
 - a. females who have one allele for the trait are only carriers; males who have only one express the trait
 - b. female carrier marries male who doesn't carry the trait
 - c. they have four children:
 - i. female carrier, female non-carrier, male w/trait, male w/o
 - d. female carrier marries male w/o trait; have 3 children
 - i. male w/trait; male w/o; female non-carrier
3. Polygenic
 - a. traits that are controlled by many genes
4. Nature v. Nurture
 - a. genotype is only partly responsible for phenotype
 - i. environment/nutrition/exercise
 - b. nutrition allowed average heights to increase 10 cm since 1800s

III. Human Genes

A. Blood Group Genes (Fig 14-4; pg 344)

1. Human blood comes in a variety of genetically determined blood types
 - a. a number of genes are responsible for blood type
 - i. best known are ABO blood groups and Rh blood groups
 - b. Rh is determined by a single gene with 2 alleles
 - i. positive and negative
 - ii. Rh = rhesus monkey; animal where it was discovered
 - iii. positive is dominant
 - c. ABO is more complicated; three alleles for this gene

Biology Chapter 14 1 Human Heredity Answers

Jack A. Ward, Howard R. Hetzel



Biology Chapter 14 1 Human Heredity Answers:

Transmission and Population Genetics Benjamin A. Pierce, 2006-01-09 This new brief version of Benjamin Pierce's *Genetics: A Conceptual Approach* Second Edition responds to a growing trend of focusing the introductory course on transmission and population genetics and covering molecular genetics separately. The book is comprised of following chapters: an case studies from Pierce's complete text 1 Introduction to Genetics 2 Chromosomes and Cellular Reproduction 3 Basic Principles of Heredity 4 Sex Determination and Sex Linked Characteristics 5 Extensions and Modifications of Basic Principles 6 Pedigree Analysis and Applications INTEGRATIVE CASE STUDY Phenylketonuria Part I 7 Linkage Recombination and Eukaryotic Gene Mapping 8 Bacterial and Viral Genetic Systems 9 Chromosome Variation INTEGRATIVE CASE STUDY Phenylketonuria Part II 22 Quantitative Genetics 23 Population Genetics and Molecular Evolution INTEGRATIVE CASE STUDY Phenylketonuria Part III

Biology Glencoe/McGraw-Hill, 1994-07

Human Heredity and Society Val W. Woodward, 1992

Genetics Benjamin Pierce, 2004-12-24 Based on the author's more than twenty years of teaching experience *Genetics: A Conceptual Approach* offers a fresh new way of introducing the major concepts and mechanics of genetics focusing students on the big picture without overwhelming them with detail

Campbell Biology Australian and New Zealand Edition Jane B. Reece, Noel Meyers, Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Peter V. Minorsky, 2015-05-20 Over nine successful editions CAMPBELL BIOLOGY has been recognised as the world's leading introductory biology textbook. The Australian edition of CAMPBELL BIOLOGY continues to engage students with its dynamic coverage of the essential elements of this critical discipline. It is the only biology text and media product that helps students to make connections across different core topics in biology between text and visuals between global and Australian New Zealand biology and from scientific study to the real world. The Tenth Edition of Australian CAMPBELL BIOLOGY helps launch students to success in biology through its clear and engaging narrative superior pedagogy and innovative use of art and photos to promote student learning. It continues to engage students with its dynamic coverage of the essential elements of this critical discipline. This Tenth Edition with an increased focus on evolution ensures students receive the most up to date accurate and relevant information

Biology Burton S. Guttman, Johns W. Hopkins, 1999 This fresh new approach to general biology integrates new research in genetics ecology evolution and molecular biology through four unifying conceptual themes. Concepts are covered when appropriate in sufficient but not overwhelming detail. The process of scientific discovery is emphasized and active learning is promoted through problem solving exercises in every chapter

Human Biology Daniel Chiras, 2012 Written for the introductory human biology course the Seventh Edition of Chiras' acclaimed text maintains the original organizational theme of homeostasis presented in previous editions to present the fundamental concepts of mammalian biology and human structure and function. Chiras discusses the scientific process in a thought provoking way that asks students to become deeper more critical thinkers. The focus on health and homeostasis allows students to learn key

concepts while also assessing their own health needs An updated and enhanced ancillary package includes numerous student and instructor tools to help students get the most out of their course *Basic Sociology* E. J. Ross, 1953 *Biology, Today and Tomorrow* Jack A. Ward, Howard R. Hetzel, 1984 Student Study Guide for Biology [by] Campbell/Reece/Mitchell Martha R. Taylor, 1999 **Prentice Hall Biology, 2002** Irvine Welsh, Prentice-Hall Staff, 2001-04 One program that ensures success for all students *Bioethics in Asia; The Proceedings of the UNESCO Asian Bioethics Conference* Fujiki, N., Macer, D. R. J., 1998 Study Guide to Accompany Human Biology James Blahnik, Daniel D. Chiras, 1999 **History Gr11 T/g , Biology** Maurice Bleifeld, 1963 **Sg and Wbk Biology CA 5E** Starr, John D. Jackson, 2002-02 A true workbook that requires students active participation Organized to match sections in the text for ease of use **Whitaker's Cumulative Book List** , 1970 Study Guide and Workbook, an Interactive Approach for Starr and McMillan's Human Biology, Third Edition Jane B. Taylor, John D. Jackson, 1999 Asks the student to write all answers in this study guide workbook This workbook is interactive because it requires students to do things instead of just read more material All questions are arranged by chapter modules so students may skip unassigned material Each module in the study guide refers to the page numbers of the corresponding module in the text There is a wide variety of questions multiple choice questions tables to be filled in art to be labeled true false questions requiring students to write the correct answer if the statement is false thought provoking conceptual questions boldfaced terms requiring a written definition list of objectives in fill in the blank format and other types of questions *Science Explorer Physical Science* Michael J. Padilla, Ioannis Miaculis, Martha Cyr, *Genetics Cont Life Inst Edtn* Daniel J. Fairbanks, 1999-02

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