

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 The Human Genome

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Table of Contents Biology Chapter 14 The Human Genome

1. Understanding the eBook Biology Chapter 14 The Human Genome
 - The Rise of Digital Reading Biology Chapter 14 The Human Genome
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Chapter 14 The Human Genome
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Biology Chapter 14 The Human Genome
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Chapter 14 The Human Genome
 - Personalized Recommendations
 - Biology Chapter 14 The Human Genome User Reviews and Ratings

- Biology Chapter 14 The Human Genome and Bestseller Lists
- 5. Accessing Biology Chapter 14 The Human Genome Free and Paid eBooks
 - Biology Chapter 14 The Human Genome Public Domain eBooks
 - Biology Chapter 14 The Human Genome eBook Subscription Services
 - Biology Chapter 14 The Human Genome Budget-Friendly Options
- 6. Navigating Biology Chapter 14 The Human Genome eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology Chapter 14 The Human Genome Compatibility with Devices
 - Biology Chapter 14 The Human Genome Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology Chapter 14 The Human Genome
 - Highlighting and Note-Taking Biology Chapter 14 The Human Genome
 - Interactive Elements Biology Chapter 14 The Human Genome
- 8. Staying Engaged with Biology Chapter 14 The Human Genome
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Chapter 14 The Human Genome
- 9. Balancing eBooks and Physical Books Biology Chapter 14 The Human Genome
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Chapter 14 The Human Genome
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Biology Chapter 14 The Human Genome
 - Setting Reading Goals Biology Chapter 14 The Human Genome
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Biology Chapter 14 The Human Genome
 - Fact-Checking eBook Content of Biology Chapter 14 The Human Genome
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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