

Name _____ Class _____ Date _____

Chapter 14

The Human Genome

Section 14-1 Human Heredity (pages 341-348)

This section explains what scientists know about human chromosomes, as well as the inheritance of certain human traits and disorders. It also describes how scientists study the inheritance of human traits.

Human Chromosomes (pages 341-342)

1. How do biologists make a karyotype? _____

2. Circle the letter of each sentence that is true about human chromosomes.
 - a. The X and Y chromosomes are known as sex chromosomes because they determine an individual's sex.
 - b. Males have two X chromosomes.
 - c. Autosomes are all the chromosomes, except the sex chromosomes.
 - d. Biologists would write 46XY to indicate a human female.
3. Complete the Punnett square below to show how the sex chromosomes segregate during meiosis.

Male (XY) × Female (XX)

| | | |
|---|---|---|
| | X | X |
| X | | |
| Y | | |

4. Why is there the chance that half of the zygotes will be 46XX and half will be 46XY? _____

5. Is the following sentence true or false? Human chromosomes contain both protein and a single, double-stranded DNA molecule.

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Chapter 14 The Human Genome

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CHAPTER 14 THE HUMAN GENOME. 14-1 Human Heredity. A. Human chromosomes - chromosomes are analyzed by taking a photograph of condensed chromosomes during mitosis - the chromosomes are then cut out of the photograph and grouped together in pairs - a picture of chromosomes arranged this way is known as a karyotype (See Fig 14-2 pg. 341)

CHAPTER 14 THE HUMAN GENOME

Chapter 14 - The Human Genome The Human Genome Project (HGP) formally began in 1990 and was finished in 2003. The goal was to discover the DNA sequences for all of the 20,000-22,000 genes that are...

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Chapter 14 The Human Genome. Flashcard maker : Richard Lattimore. What combination of sex chromosomes produces a human female? The combination of two x sex chromosomes are what produce a human female. What combination of sex chromosomes produces a human male? The combination of one x sex chromosome & one y chromosome are what produce a human male. What fact explains why approximately half of ...

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Find other activities; Start over; Help; Check your knowledge of human genetic disorders and traits. A B; karyotype : picture of chromosomes arranged in pairs by size and shape: sex chromosomes: chromosomes that determine an individual's sex: autosomes: chromosomes that do not determine the sex of an individual ...

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Chapter 14 The Human Genome Answer Key 1

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The human genome project pinpointed genes and associated particular sequences in those genes with numerous diseases and disorders. It also found that the DNA of all humans matches base-for-base at most sites, but can vary at 3 million sites. The 1000 Genomes Project, launched in 2008, will catalogue the variation among 1000 people. 013368718X_CH14_213-228.indd 10 1/5/09 12:07:55 PM. Lesson 14 ...

14.3 Studying the Human Genome

Chapter 14 The Human Genome Section 14-1 Human Heredity (pages 341-348) This section explains what scientists know about human chromosomes, as well as the inheritance of certain human traits and disorders. It also describes how scientists study the inheritance of human traits. Human Chromosomes (pages 341-342) 1. How do biologists make a...

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