#### Chapter 14 The Human Genome

# Making Karyotypes

#### Introduction

Several human genetic disorders are caused by extra, missing, or damaged chromosomes. In order to study these disorders, cells from a person are grown with a chemical that stops cell division at the metaphase stage. During metaphase, a chromosome exists as two chromatids attached at the centromere.

The cells are stained to reveal banding patterns and placed on glass slides. The chromosomes are observed under the microscope, where they are counted, checked for abnormalities, and photographed. The photograph is then enlarged, and the images of the chromosomes are individually cut out. The chromosomes are identified and arranged in homologous pairs. The arrangement of homologous pairs is called a karyotype. In this investigation, you will use a sketch of chromosomes to make a karyotype. You will also examine the karyotype to determine the presence of any chromosomal abnormalities.

# Problem

How can chromosomes be observed?

#### Pre-Lab Discussion

Read the entire investigation. Then work with a partner to answer the following questions.

- 1. What clues to the presence of certain genetic disorders can be seen in a karyotype?
- 2. Why might a laboratory worker attempting to diagnose a genetic disorder prefer to work with photographs of chromosomes rather than the chromosomes themselves?
- 3. Why would it be much more difficult to construct a karyotype of unstained chromosomes?
- 4. Which pair of chromosomes can contain two very different chromosomes and still be considered normal? Explain your answer.
- 5. How do autosomes differ from sex chromosomes?

# <u>Chapter 14 The Human Genome Making Karyotypes Lab</u> <u>Answer Key</u>

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# Table of Contents Chapter 14 The Human Genome Making Karyotypes Lab Answer Key

- 1. Understanding the eBook Chapter 14 The Human Genome Making Karyotypes Lab Answer Key
  - The Rise of Digital Reading Chapter 14 The Human Genome Making Karyotypes Lab Answer Key
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Chapter 14 The Human Genome Making Karyotypes Lab Answer Key
  - 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 Chapter 14 The Human Genome Making Karyotypes Lab Answer Key
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Chapter 14 The Human Genome Making Karyotypes Lab Answer Key
  - Personalized Recommendations
  - Chapter 14 The Human Genome Making Karyotypes Lab Answer Key User Reviews and Ratings
  - Chapter 14 The Human Genome Making Karyotypes Lab Answer Key and Bestseller Lists
- 5. Accessing Chapter 14 The Human Genome Making Karyotypes Lab Answer Key Free and Paid eBooks
  - Chapter 14 The Human Genome Making Karyotypes Lab Answer Key Public Domain eBooks
  - Chapter 14 The Human Genome Making Karyotypes Lab Answer Key eBook Subscription Services
  - Chapter 14 The Human Genome Making Karyotypes Lab Answer Key Budget-Friendly Options
- 6. Navigating Chapter 14 The Human Genome Making Karyotypes Lab Answer Key eBook Formats
  - o ePub, PDF, MOBI, and More
  - Chapter 14 The Human Genome Making Karyotypes Lab Answer Key Compatibility with Devices
  - Chapter 14 The Human Genome Making Karyotypes Lab Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter 14 The Human Genome Making Karyotypes Lab Answer Key
  - Highlighting and Note-Taking Chapter 14 The Human Genome Making Karyotypes Lab Answer Key
  - Interactive Elements Chapter 14 The Human Genome Making Karyotypes Lab Answer Key

- 8. Staying Engaged with Chapter 14 The Human Genome Making Karyotypes Lab Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter 14 The Human Genome Making Karyotypes Lab Answer Key
- 9. Balancing eBooks and Physical Books Chapter 14 The Human Genome Making Karyotypes Lab Answer Key
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Chapter 14 The Human Genome Making Karyotypes Lab Answer Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 14 The Human Genome Making Karyotypes Lab Answer Key
  - Setting Reading Goals Chapter 14 The Human Genome Making Karyotypes Lab Answer Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 14 The Human Genome Making Karyotypes Lab Answer Key
  - Fact-Checking eBook Content of Chapter 14 The Human Genome Making Karyotypes Lab Answer Key
  - 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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