

Karyotypes

Pre-Lab Discussion

Several human genetic disorders are caused by additional, missing, or damaged chromosomes. One way of studying genetic disorders is to observe the chromosomes themselves. In order to do this, cells from a person are grown in a laboratory. After the cells have reproduced a few times, they are treated with a chemical that stops cell division at the metaphase stage. During metaphase, the chromosomes are at the best length for identification.

The cells are treated further, stained, and then 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 chromosomes are individually cut out. The chromosomes are identified and arranged in homologous pairs. Homologous chromosomes are identical, or matching, chromosomes. 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 genetic defects.

Part A: Analyzing a Karyotype

1. Observe the *normal* karyotype in Figure 1. Notice that the two sex chromosomes, pair numbers 23, do not look alike. They are different because this karyotype is of a male, and a male has an X and a Y chromosome.
2. Identify the centromere in each pair of chromosomes. The centromere is the area where each chromosome narrows.

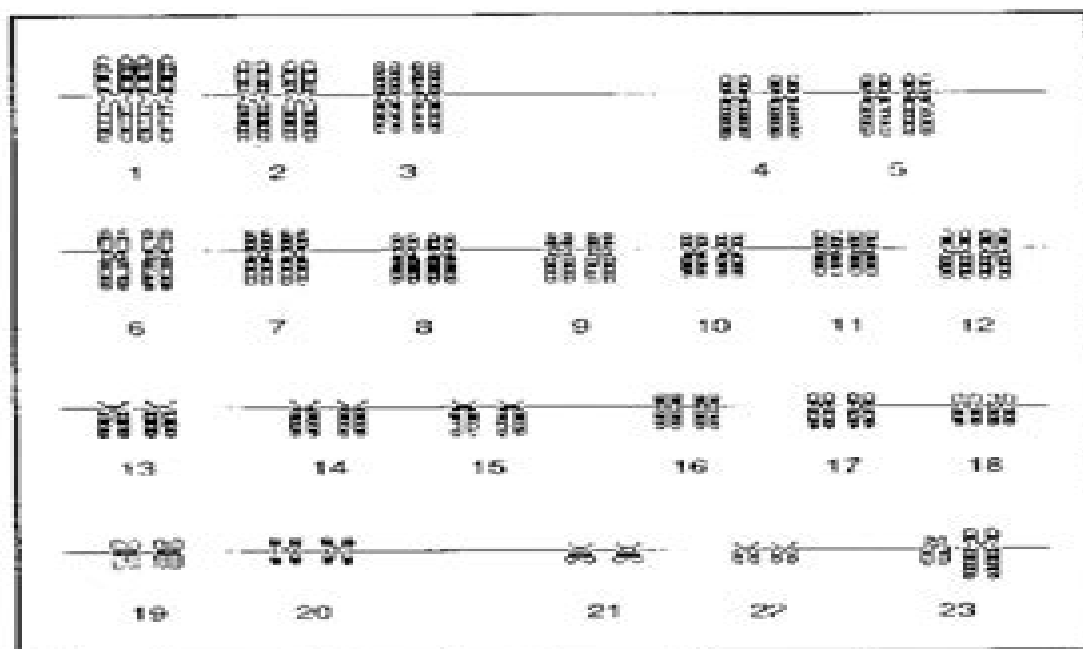


Figure 1

Karyotypes Lab Answers

Joacim Rocklöv

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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Exploring Physical Anthropology Laboratory Manual & Workbook Suzanne E. Walker-Pacheco, 2017-02-01

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Table of Contents Karyotypes Lab Answers

1. Understanding the eBook Karyotypes Lab Answers
 - The Rise of Digital Reading Karyotypes Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Karyotypes Lab Answers
 - 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 Karyotypes Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Karyotypes Lab Answers
 - Personalized Recommendations
 - Karyotypes Lab Answers User Reviews and Ratings
 - Karyotypes Lab Answers and Bestseller Lists
5. Accessing Karyotypes Lab Answers Free and Paid eBooks

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