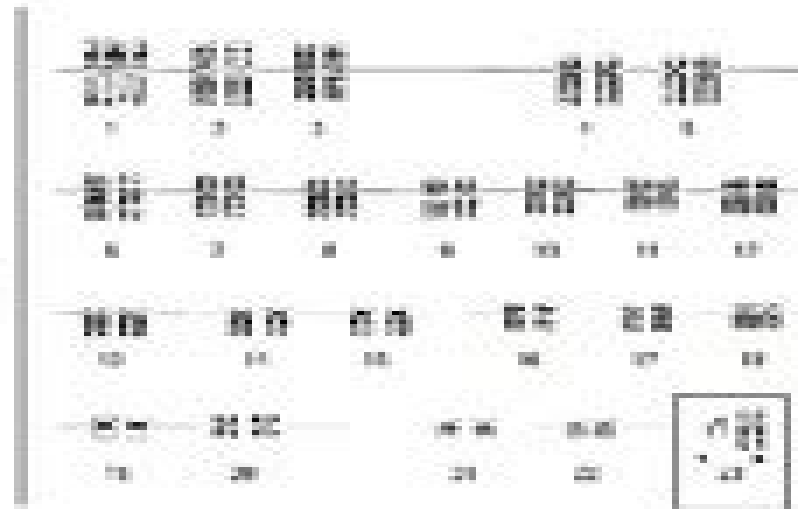


MAKING KARYOTYPES:

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 (areas that are dark are areas rich in Adenine [A] and Thymine [T]). The chromosomes are placed on glass slides, then observed under the microscope where they are oriented, 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 learn the karyotype to determine the presence of any chromosomal abnormalities.



Normal male karyotype

This is a diagram of a normal male karyotype: 23 pairs of chromosomes, 46 total. Pairs 1-22 are referred to as **somatosomal chromosomes**. Pairs number 23 are the sex chromosomes. In the case of this male, one chromosome is an "X" and one chromosome is a "Y". Females would have 2 "X" chromosomes.

We have discussed 3 major genetic disorders easily identified by karyotyping:

- **Turner's Syndrome:** female with only one "X" chromosome
- **Down's Syndrome:** 3 copies of chromosome number 21
- **Klinefelter's male** with XXX for his sex chromosomes

Using A Karyotype to Identify A Genetic Disorder:

Procedure:

1. Look at the chromosome answer on the next page. Notice that half of them are number 1-22.
2. Cut out the chromosomes and match the un-numbered homologous chromosomes to the numbered ones and tape/glass them to the empty karyotype worksheet. Make sure that chromosome pair #1 gets taped/glassed above the "1" on the karyotype sheet, etc.
3. Line up the centromeres of the chromosomes along the lines above the numbers on the empty karyotype worksheet.

Making Karyotypes Chapter 14

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Table of Contents Making Karyotypes Chapter 14

1. Understanding the eBook Making Karyotypes Chapter 14
 - The Rise of Digital Reading Making Karyotypes Chapter 14
 - Advantages of eBooks Over Traditional Books
2. Identifying Making Karyotypes Chapter 14
 - 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 Making Karyotypes Chapter 14
 - User-Friendly Interface
4. Exploring eBook Recommendations from Making Karyotypes Chapter 14
 - Personalized Recommendations
 - Making Karyotypes Chapter 14 User Reviews and Ratings
 - Making Karyotypes Chapter 14 and Bestseller Lists
5. Accessing Making Karyotypes Chapter 14 Free and Paid eBooks
 - Making Karyotypes Chapter 14 Public Domain eBooks
 - Making Karyotypes Chapter 14 eBook Subscription Services

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