Name	11

A CHROMOSOME STUDY

In this activity, you will create a karyotype from a page of mixed chromosomes. Karyotypes are created by matching homologous pairs and numbering them from largest to smallest. Abnormalities, such as extra or deleted chromosomes can then be diagnosed. Pictured chromosomes will be used for this model rather than real chromosomes, but the process is the same for real chromosomes extracted from cell or fetal samples.

Two karyotypes will be created - A karyotype is a pattern or picture of chromosomes from one cell **grouped into pairs** and **organized by size**. The first you will create represents a normal human karyotype of a male or a female, the second represents and abnormal karyotype. You will then compare and diagnose the abnormality present in the patient of the second karyotype.



Normal Human Karyotype

- a. Obtain the page marked "normal" these are pictures of chromosomes from a normal human.
- b. Cut each chromosome out and set the ones labeled X & Y aside.
- c. Pair each chromosome up with its match the X & Y will not match.
- d. Arrange the chromosomes in pairs from largest to smallest. NUMBER them starting from one.
- e. Place the sex chromosomes last, at the #23 spot.
- How many total chromosomes are present in this karyotype? _______
- 2. How many sex chromosomes are present? ______

How many autosomes (not sex chromosomes)?

100	What is your person's sex chromosomes (XX or XY)?	Is this a boy or girl?
201	WITHOUTH VOICE DRIESDELS SEEK CHECKEICHSCHEINS LAA OF ATTE	1.76 CHIEFE AND LINEARY COST CHIEFE

Body cells are called somatic cells. Somatic cells include the skin, liver, muscle, stomach and other bodily cells. The karyotype you prepared is from a somatic human cell. The term **diploid chromosome number** refers to the number of chromosomes in a somatic cell. The diploid number varies from species to species, however it does not differ from somatic cell to somatic cell within the same organism. To find your diploid number, simply count the number of chromosomes in your karyotype.

4. What is the diploid chromosome number for your karyotype? _____

The **HAPLOID CHROMOSOME NUMBER** refers to the number of chromosomes in an organism's sex cells. Sperm in males, eggs in females. The **haploid number**, is always -half- that of the diploid number.

5. What would the haploid chromosome number for your karyotype be? ______

Abnormal Human Karyotype

- a. Obtain the page marked "abnormal" there is more than one set, take note of which set you have (A, B, C, D) →
- b. Cut each chromosome out and set any labeled ones (X, Y) aside.
- c. Pair each chromosome up with its match the X & Y will not match.
- d. Arrange the chromosomes in pairs from largest to smallest. NUMBER them starting from one.
- e. Place the sex chromosomes last, at the #23 spot.

Lab 21 A Chromosome Study Answer Key

Torbjoern Caspersson

Lab 21 A Chromosome Study Answer Key:

Handbook of Autopsy Practice Jurgen Ludwig, 2002-07-18 The second edition of Handbook of Autopsy Practice appeared in 1979 under the title Current Methods of Autopsy Practice W B Saunders Company that edition was out of print in the early 1980s Now over 20 years later it appeared timely to thoroughly update the material in a third edition by adding what we have learned in the meantime and eliminating text that has become obsolete There is an acute need for a complete and readily acces sible resource for autopsy work because few pathologists still specialize in autopsy practice and as a consequence expertise in autopsy technology and autopsy pathology has declined Our colleagues in the forensic field have remained the only large group of autopsy practitioners For most other pathologists the economic situation time constraints and the steadily decreasing autopsy rates have made a career in autopsy pathology unattractive This state of affairs is perpetuated by a lack of interest among many of our young colleagues partly because the teaching of autopsy pathology and autopsy techniques during most residencies is insufficient Numerous articles have be moaned this situation but the trend I fear is irreversible Still autopsies will be requested particularly in complex and difficult situations where the questions remaining after the death of the patient might challenge even experienced autopsy pathologists Under these circumstances this Handbook of Autopsy Practice should meet a particular need by providing the prosector with a source of information when it is most required in the autopsy room The AGT Cytogenetics Laboratory Manual Marilyn S. Arsham, Margaret J. Barch, Helen J. Lawce, 2017-04-24 Cytogenetics is the study of chromosome morphology structure pathology function and behavior The field has evolved to embrace molecular cytogenetic changes now termed cytogenomics Cytogeneticists utilize an assortment of procedures to investigate the full complement of chromosomes and or a targeted region within a specific chromosome in metaphase or interphase Tools include routine analysis of G banded chromosomes specialized stains that address specific chromosomal structures and molecular probes such as fluorescence in situ hybridization FISH and chromosome microarray analysis which employ a variety of methods to highlight a region as small as a single specific genetic sequence under investigation The AGT Cytogenetics Laboratory Manual Fourth Edition offers a comprehensive description of the diagnostic tests offered by the clinical laboratory and explains the science behind them One of the most valuable assets is its rich compilation of laboratory tested protocols currently being used in leading laboratories along with practical advice for nearly every area of interest to cytogeneticists In addition to covering essential topics that have been the backbone of cytogenetics for over 60 years such as the basic components of a cell use of a microscope human tissue processing for cytogenetic analysis prenatal constitutional and neoplastic laboratory safety and the mechanisms behind chromosome rearrangement and aneuploidy this edition introduces new and expanded chapters by experts in the field Some of these new topics include a unique collection of chromosome heteromorphisms clinical examples of genomic imprinting an example driven overview of chromosomal microarray mathematics specifically geared for the cytogeneticist usage of ISCN s

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Table of Contents Lab 21 A Chromosome Study Answer Key

- 1. Understanding the eBook Lab 21 A Chromosome Study Answer Key
 - The Rise of Digital Reading Lab 21 A Chromosome Study Answer Key
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Lab 21 A Chromosome Study 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 Lab 21 A Chromosome Study Answer Key
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Lab 21 A Chromosome Study Answer Key
 - Personalized Recommendations
 - Lab 21 A Chromosome Study Answer Key User Reviews and Ratings
 - Lab 21 A Chromosome Study Answer Key and Bestseller Lists
- 5. Accessing Lab 21 A Chromosome Study Answer Key Free and Paid eBooks

- Lab 21 A Chromosome Study Answer Key Public Domain eBooks
- Lab 21 A Chromosome Study Answer Key eBook Subscription Services
- Lab 21 A Chromosome Study Answer Key Budget-Friendly Options
- 6. Navigating Lab 21 A Chromosome Study Answer Key eBook Formats
 - o ePub, PDF, MOBI, and More
 - Lab 21 A Chromosome Study Answer Key Compatibility with Devices
 - Lab 21 A Chromosome Study Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lab 21 A Chromosome Study Answer Key
 - Highlighting and Note-Taking Lab 21 A Chromosome Study Answer Key
 - Interactive Elements Lab 21 A Chromosome Study Answer Key
- 8. Staying Engaged with Lab 21 A Chromosome Study Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lab 21 A Chromosome Study Answer Key
- 9. Balancing eBooks and Physical Books Lab 21 A Chromosome Study Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lab 21 A Chromosome Study Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Lab 21 A Chromosome Study Answer Key
 - Setting Reading Goals Lab 21 A Chromosome Study Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lab 21 A Chromosome Study Answer Key
 - Fact-Checking eBook Content of Lab 21 A Chromosome Study 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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