

## 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

- Obtain the page marked "normal" - these are pictures of chromosomes from a normal human.
- Cut each chromosome out and set the ones labeled X & Y aside.
- Pair each chromosome up with its match - the X & Y will not match.
- Arrange the chromosomes in pairs from largest to smallest. **NUMBER** them starting from one.
- Place the sex chromosomes last, at the #23 spot.

1. How many total chromosomes are present in this karyotype? \_\_\_\_\_

2. How many sex chromosomes are present? \_\_\_\_\_

How many autosomes (not sex chromosomes)? \_\_\_\_\_

3. What is your person's sex chromosomes (XX or XY)? \_\_\_\_\_ Is this a boy or girl? \_\_\_\_\_

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

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

# A Chromosome Study Lab Answer Key

**Anne Hart**



## **A Chromosome Study Lab Answer Key:**

**Obstetrics & Gynecology Morning Report: Beyond the Pearls E-Book** Kate V. Meriwether, Joey England, 2018-02-10  
Concise and easy to read Obstetrics each case has been reviewed by board certified attending practicing physicians

*Cytogenetic Laboratory Management* Susan Mahler Zneimer, 2017-01-27 Cytogenetic Laboratory Management  
Cytogenetic Laboratory Management Chromosomal FISH and Microarray Based Best Practices and Procedures Cytogenetic Laboratory Management Chromosomal FISH and Microarray Based Best Practices and Procedures is a practical guide that describes how to develop and implement best practice processes and procedures in the genetic laboratory setting The text first describes good laboratory practices including quality management design control of tests and FDA guidelines for laboratory developed tests and preclinical validation study designs The second focus of the book is on best practices for staffing and training including cost of testing staffing requirements process improvement using Six Sigma techniques training and competency guidelines and complete training programs for cytogenetic and molecular genetic technologists The third part of the text provides stepwise standard operating procedures for chromosomal FISH and microarray based tests including preanalytic analytic and postanalytic steps in testing which are divided into categories by specimen type and test type All three sections of the book include example worksheets procedures and other illustrative examples that can be downloaded from the Wiley website to be used directly without having to develop prototypes in your laboratory Providing a wealth of information on both laboratory management and molecular and cytogenetic testing Cytogenetic Laboratory Management will be an essential tool for laboratorians worldwide in the field of laboratory testing and genetic testing in particular This book gives the essentials of Developing and implementing good quality management programs in laboratories Understanding design control of tests and preclinical validation studies and reports FDA guidelines for laboratory developed tests Use of reagents instruments and equipment Cost of testing assessment and process improvement using Six Sigma methodology Staffing training and competency objectives Complete training programs for molecular and cytogenetic technologists Standard operating procedures for all components of chromosomal analysis FISH and microarray testing of different specimen types This volume is a companion to Cytogenetic Abnormalities Chromosomal FISH and Microarray Based Clinical Reporting The combined volumes give an expansive approach to performing reporting and interpreting cytogenetic laboratory testing and the necessary management practices staff and testing requirements

**The Principles of Clinical Cytogenetics** Steven L. Gersen, Martha B. Keagle, 2008-08-17 In the summer of 1989 one of us SLG along with his mentor Dorothy Warb ton attended the Tenth International Workshop on Human Gene Mapping The meeting was held at Yale University in celebration of the first such event which also took place there This meeting was not open to the general public one had to have contributed to mapping a gene to be permitted to attend The posters of course were therefore all related to gene mapping and many were covered with pretty colorful pictures of a novel fluorescent application of an old technology in

situ hybridization Walking through the room Dorothy remarked that because of this new FISH technique chromosomes which had become yesterday's news were once again back in style Approximately three years later a commercial genetics company launched a FISH assay for prenatal ploidy detection A substantial number of cytogeneticists across the country reacted with a combination of outrage and panic Many were concerned that physicians would be quick to adopt this newfangled upstart test and put us all on the unemployment line They did not at the time realize what Dorothy instinctively already knew that FISH would not spell the doom of the cytogenetics laboratory but it would rather take it to new heights *Nuclear Science Abstracts* ,1974 **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 cytogenetic language to describe chromosome changes tips for laboratory management examples of laboratory information systems a collection of internet and library resources and a special chapter on animal chromosomes for the research and zoo cytogeneticist The range of topics is thus broad yet comprehensive offering the student a resource that teaches the procedures performed in the cytogenetics laboratory environment and the laboratory professional with a peer reviewed reference that explores the basis of each of these procedures This makes it a useful resource for researchers clinicians and lab professionals as well as students in a university or medical school setting **Government-wide Index to Federal Research & Development**

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**Abstracts eBook** American Association for Clinical Chemistry (AACC),2015-09-14 This eBook is a collection of poster

abstracts presented at the AACC 2015 Annual Meeting As the leading event for laboratory medicine worldwide the AACC Annual Meeting Clinical Lab Expo is the place where breakthrough innovations in clinical testing and patient care are introduced to the healthcare world *Cumulated Index Medicus* ,1994 "Code of Massachusetts regulations, 2008" ,2008 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **Scientific and Technical Aerospace Reports** ,1991 **Quarterly Bulletin of the Division of Mechanical Engineering and the National Aeronautical Establishment** National Research Council of Canada. Division of Mechanical Engineering,1972 **"Code of Massachusetts regulations, 2005"** ,2005 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **UICC Technical Report Series** ,1975 101 Ways to Find Six-Figure Medical or Popular Ghostwriting Jobs & Clients Anne Hart,2006-11-12 How would you like to earn perhaps 100 000 annually as a medical or other specialty ghostwriter You don't necessarily need a degree in science to earn six figures as a ghostwriter What you do need is to focus or specialize in one subject or area of expertise If you choose medical ghostwriting you'd be writing pharmaceutical reports or informational books about research and clinical trials performed by scientists physicians and researchers You could work with pharmaceutical firms medical software manufacturers or for public relations firms or literary agents You'd be making a lot more than the usual 10 000 a ghostwriter may receive for writing a career development how to book Medical ghostwriters can receive up to 20 000 per report Pharmaceutical and clinical trials reports or medical journal articles often are written by ghostwriters Ghostwriting medical or other factual information is big business It's one way pharmaceutical manufacturers communicate with physicians If you want to ghostwrite in this field get paid to investigate information physicians receive about medicines and interview researchers you can take the roads leading to steadier writing jobs document management or run your own business as a medical business or celebrity ghostwriter Here is the training you need to begin if you enjoy journalism with an attitude "Code of Massachusetts regulations, 2006" ,2006 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 Heredity under the Microscope Soraya de Chadarevian,2020-07-02 By focusing on chromosomes Heredity under the Microscope offers a new history of postwar human genetics Today chromosomes are understood as macromolecular assemblies and are analyzed with a variety of molecular techniques Yet for much of the twentieth century researchers studied chromosomes by looking through a microscope Unlike any other technique chromosome analysis offered a direct glimpse of the complete human genome opening up seemingly endless possibilities for observation and intervention Critics however countered that visual evidence was not enough and pointed to the need to understand the molecular mechanisms Telling this history in full for the first time Soraya de Chadarevian argues that the often bewildering variety of observations made under the microscope were central to the study of human genetics Making space for microscope based practices alongside molecular approaches de Chadarevian

analyzes the close connections between genetics and an array of scientific medical ethical legal and policy concerns in the atomic age By exploring the visual evidence provided by chromosome research in the context of postwar biology and medicine *Heredity under the Microscope* sheds new light on the cultural history of the human genome *Review of the Activities of the Laboratories - the National Research Council of Canada* National Research Council of Canada,1970

Healing Syndrome O Ronald F. Feinberg, Ronald Feinburg, 2004 Understanding and overcoming the leading undiagnosed cause of infertility miscarriage menstrual problems obesity and hormonal disruption Recent years have seen a dramatic increase in the number of women diagnosed with polycystic ovary syndrome PCOS which causes infertility and repeated miscarriage as well as more cosmetic problems such as obesity that is resistant to normal weight loss measures Not surprisingly women with this syndrome also suffer from depression and damaged self esteem as a result Thus far medical science has had little to offer women with PCOS In this book however leading reproductive specialist Dr Ronald Feinberg provides a new way of looking at the disorder linking it to bodywide metabolic irregularities insulin resistance nutrition activity and stress a combination of health issues that collectively make up what he has termed Syndrome O And this understanding brings new hope for overcoming it Written in a compassionate inspirational and motivational style *Healing Syndrome O* discusses the causes and complications of this condition and provides a targeted plan to help women balance and repair their overall health overcome symptoms and especially restore their fertility

## Unveiling the Power of Verbal Art: An Emotional Sojourn through **A Chromosome Study Lab Answer Key**

In a world inundated with screens and the cacophony of quick transmission, the profound energy and mental resonance of verbal artistry usually fade in to obscurity, eclipsed by the continuous assault of noise and distractions. However, situated within the musical pages of **A Chromosome Study Lab Answer Key**, a interesting function of literary splendor that pulses with raw emotions, lies an remarkable trip waiting to be embarked upon. Published by way of a virtuoso wordsmith, this mesmerizing opus guides viewers on a psychological odyssey, lightly exposing the latent possible and profound affect stuck within the delicate internet of language. Within the heart-wrenching expanse of this evocative evaluation, we shall embark upon an introspective exploration of the book is key styles, dissect their fascinating publishing type, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

<https://forums.acdsystems.com/results/Resources/index.jsp/15%20Honda%20Rancher%20420%20Service%20Manual.pdf>

### **Table of Contents A Chromosome Study Lab Answer Key**

1. Understanding the eBook A Chromosome Study Lab Answer Key
  - The Rise of Digital Reading A Chromosome Study Lab Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying A Chromosome Study 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 A Chromosome Study Lab Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from A Chromosome Study Lab Answer Key
  - Personalized Recommendations

- A Chromosome Study Lab Answer Key User Reviews and Ratings
- A Chromosome Study Lab Answer Key and Bestseller Lists
- 5. Accessing A Chromosome Study Lab Answer Key Free and Paid eBooks
  - A Chromosome Study Lab Answer Key Public Domain eBooks
  - A Chromosome Study Lab Answer Key eBook Subscription Services
  - A Chromosome Study Lab Answer Key Budget-Friendly Options
- 6. Navigating A Chromosome Study Lab Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - A Chromosome Study Lab Answer Key Compatibility with Devices
  - A Chromosome Study Lab Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of A Chromosome Study Lab Answer Key
  - Highlighting and Note-Taking A Chromosome Study Lab Answer Key
  - Interactive Elements A Chromosome Study Lab Answer Key
- 8. Staying Engaged with A Chromosome Study Lab Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers A Chromosome Study Lab Answer Key
- 9. Balancing eBooks and Physical Books A Chromosome Study Lab Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection A Chromosome Study Lab Answer Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine A Chromosome Study Lab Answer Key
  - Setting Reading Goals A Chromosome Study Lab Answer Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of A Chromosome Study Lab Answer Key
  - Fact-Checking eBook Content of A Chromosome Study 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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main part of the funeral ceremony is delivered at a private venue at home at a reception venue a municipal or church hall a funeral parlour chapel a hotel function room or similar

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