

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.

Lab 2a Chromosome Study Answer Key

**Marilyn S. Arsham, Margaret J.
Barch, Helen J. Lawce**



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Chromosome Analysis Protocols John R. Gosden, 2008-02-02 Chromosomes as the genetic vehicles provide the basic material for a large proportion of genetic investigations from the construction of gene maps and models of chromosome organization to the investigation of gene function and dysfunction The study of chromosomes has developed in parallel with other aspects of molecular genetics beginning with the first preparations of chromosomes from animal cells through the development of banding techniques which permitted the unequivocal identification of each chromosome in a karyotype to the present analytical methods of molecular cytogenetics Although some of these techniques have been in use for many years and can be learned relatively easily most published scientific reports as a result of pressure on space from editors and the response to that pressure by authors contain little in the way of technical detail and thus are rarely adequate for a researcher hoping to find all the necessary information to embark on a method from scratch A new user needs not only a detailed description of the methods but also some help with problem solving and sorting out the difficulties encountered in handling any biological system This was the requirement to which the series *Methods in Molecular Biology* is addressed and *Chromosome Analysis Protocols* forms a part of this series

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

Laboratory Course in Histology Adolph Elwyn, Oliver Smith Strong, 1920 Publications, Reports, and Papers for 1961- from Oak Ridge National Laboratory Oak Ridge National Laboratory, 1965 *Cell Fate* Chin-Hsing Annie Lin, Laura Buttitta, Lisa Maves, F. Jeffrey Dilworth, Michael T. Chin, Carlos A. Paladini, 2016-06-24 The fundamental question of how an undifferentiated progenitor cell adopts a more specialized cell fate that then contributes to the development of specialized tissues organs organ systems and ultimately a unique individual of a given species has intrigued cell and developmental biologists for many years Advances in molecular and cell biology have enabled investigators to identify genetic and epigenetic factors that contribute to these processes with increasing detail and also to define the various molecular characteristics of each cell fate with greater precision Understanding these processes have also provided greater insights into disorders in which the normal mechanisms of cell fate determination are altered such as in cancer and inherited malformations With these advances have come techniques that facilitate the manipulation of cell fate which have the potential to revolutionize the field of medicine by facilitating the repair and or regeneration of diseased organs Given the rapid advances that are occurring in the field the articles in this eBook are both relevant and timely These articles originally appeared online as part of the Research Topic Cell Fate overseen by my colleagues Dr Lin Dr Buttitta Dr Maves Dr Dilworth Dr Paladini and myself and have been viewed extensively Because of their popularity they are now made available as an eBook in a more easily downloadable form Michael T Chin **Contributions from the Zoological Laboratory** University of Pennsylvania. Zoological Laboratory, 1927 Vols for 189 1956 58 are reprinted from various scientific journals **Publications, Reports and Papers for ... from Oak Ridge National Laboratory** Oak Ridge National Laboratory, 1964 **Contributions from the Zoological Laboratory of the University of Pennsylvania** University of Pennsylvania. Zoological Laboratory, 1927 **Contributions from the Zoological Laboratory of the University of Pennsylvania** , 1911 Publications, Reports, and Papers for 1965 from Oak Ridge National Laboratory K.O.

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A List of Experiments

- 1 Study pollen germination on a slide
- 2 Collect and study soil from at least two different sites and study them for texture moisture content pH and water holding capacity Correlate with the kinds of plants found in them
- 3 Collect water from two different water bodies around you and study them for pH clarity and presence of any living organism
- 4 Study the presence of suspended particulate matter in air at two widely different sites
- 5 Study the plant population density by quadrat method
- 6 Study the plant population frequency by quadrat method
- 7 Prepare a temporary mount of onion root tip to study mitosis
- 8 Study the effect of different temperatures and three different pH on the activity of salivary amylase on starch
- 9 Isolate DNA from available plant material such as spinach green pea seeds papaya etc

B Study observation of the following

Spotting

- 1 Flowers adapted to pollination by different agencies wind insects birds
- 2 Pollen germination on stigma through a permanent slide
- 3 Identification of stages of gamete development i e T S of testis and T S of ovary through permanent slides from grasshopper mice
- 4 Meiosis in onion bud cell or grasshopper testis through permanent slides
- 5 T S of blastula through permanent slides Mammalian
- 6 Mendelian inheritance using seeds of different colour sizes of any plant
- 7 Prepare pedigree charts of any one of the genetic traits such as rolling of tongue blood groups ear lobes widow s peak and colour blindness
- 8 Controlled pollination emasculation tagging and bagging
- 9 Common disease causing organisms like Ascaris Entamoeba Plasmodium any fungus causing ringworm through permanent slides or specimens Comment on symptoms of diseases that they cause
- 10 Two plants and two animals model virtual images found in xeric conditions Comment upon their morphological adaptations
- 11 Two plants and two animals models virtual images found in aquatic conditions Comment Content

EXPERIMENTS

- 1 To study pollen germination on slide
- 2 To study the texture moisture content pH and waterHolding Capacity of soils collected from different sites
- 3 To collect water from different water bodies and study them for pH Clarity and presence of living organisms
- 4 To study the presence of suspended particulate matter in air at different sites
- 5 To study plant population density by quadrat method
- 6 To study plant population frequency by quadrat method
- 7 To study various stages of mitosis in root tip of onion by preparing slide in acetocarmine
- 8 To study effect of different temperature and three different pH onthe activity of salivary amylase
- 9 To study the isolation of DNA from available plant material such as spinach green pea seeds papaya etc

SPOTTING

- 1 Pollination in flowers
- 2 Pollen germination
- 3 Slides of mammal tissues
- 4 Meiosis cell division
- 5 T S of Blastula
- 6 Mendel s inheritance

laws 7 Pedigree chart 8 Controlled pollination 9 Common disease causing organisms 10 Xerophytic adaptation 11 Aquatic adaptation **Energy Research Abstracts** ,1982 **Molecular Architecture and Dynamics of Meiotic Chromosomes**
Ricardo Benavente,Mónica Pradillo,Pedro A. San-Segundo,2024-03-11 Meiosis is a special type of cell division that allows the generation of haploid gametes and is a key process for sexual reproduction of animals plants and fungi Haploidization requires that meiotic cells undergo a series of unique processes namely pairing synapsis recombination and segregation of homologous chromosomes This involves profound meiosis specific changes in the protein composition and architecture of homologous chromosomes as well as of the condensation and folding of chromatin that require a critical timing and regulation Despite this enormous complexity different organisms may achieve haploidization through common molecular mechanisms A major goal of this article collection is to provide an overview of how meiotic chromosomes and their components are critically involved in the mechanisms of haploidization and how dynamic protein complexes yield important structural intermediates and temporal regulation to this process We welcome submissions of original articles mini reviews and review articles dealing with the composition architecture function and regulation of meiotic chromosomes of animals plants and fungi using microscopic biochemical molecular genetic and or omic techniques *Laboratory Outlines for General Botany* John Henry Schaffner,1905 OSSSC TGT Science Exam PDF-Paper II Only PDF eBook Chandresh Agrawal,Nandini Books,2025-01-05 The eBook OSSSC TGT Science Exam PDF Paper II Only PDF eBook Covers Objective Questions With Answers

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