

Student Worksheet: Human Karyotyping

Directions: Follow the steps below to complete this worksheet. Record the key information you observe in the orange boxes.

Background: Humans have 46 chromosomes: 22 pairs of autosomes, one pair of sex chromosomes.

A **metaphase plate** is a cell stage in which chromosomes are all lined up in the center of the cell.

Activity 1:
Make and Name
Karyotypes

Use the Chromosome
in this Row:



Directions: Make one male karyotype and one female karyotype.

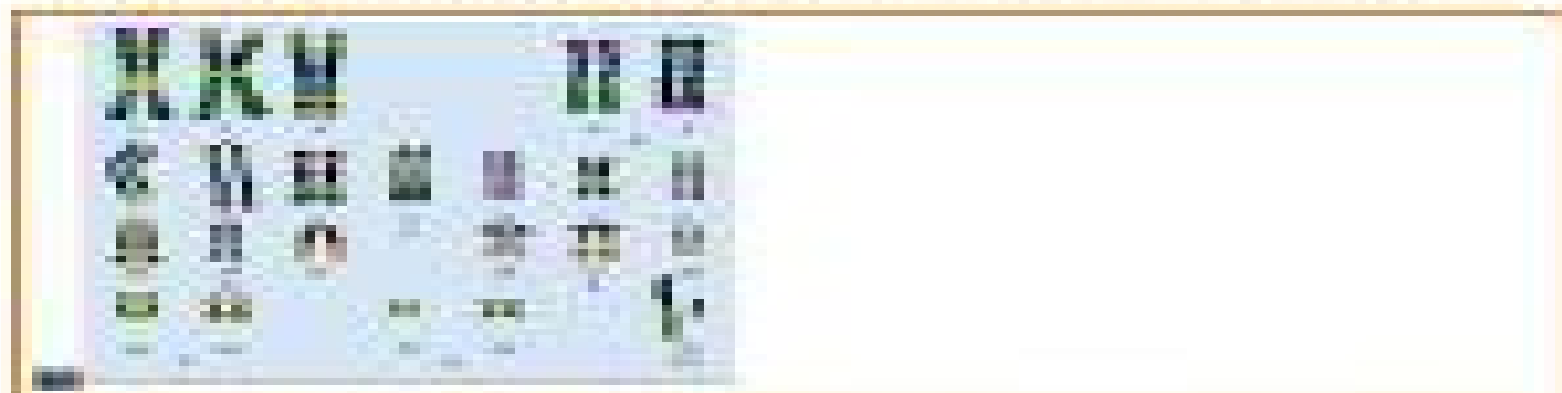
1. **Chromosome** with 46,XX,45,XO pairs under each **Subject** is provided. Circle original sex chromosome(s) for identification for the karyotypical identity. Give the number to represent the chromosomes you found with chromosomes 1 through 22 and sex with X and Y.

Other chromosomes (44 total):

18

2. **Group** 46 chromosomes to the appropriate position on the **Subject's** chromosomes. Give each chromosome a name, identify it, and place it into karyotype.

After you have identified and placed all of the chromosomes, look for bands ☐. The table is arranged in five karyotype 10-sets. The horizontal label and label is "Subject's".



3. **Group** Chromosomes 1 through 22 are called **autosomes**. Describe the karyotype you have created.

How many total autosomes did you observe?

22

Karyotyping Science Kit Student Guide

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Barch, Helen J. Lawce**



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Carolina Science and Math Carolina Biological Supply Company, 2003 Biology/science Materials Carolina Biological Supply Company, 1991 The Complete Home Learning Sourcebook Rebecca Rupp, 1998 Lists all the resources needed to create a balanced curriculum for homeschooling from preschool to high school level *Biology*, 1999 **The Search for Solutions Teaching Guide (abridged)** Illinois State Board of Education (1973-), 1980 Argument-driven Inquiry in Biology Victor Sampson, 2014-04-01 Are you interested in using argument driven inquiry for high school lab instruction but just aren't sure how to do it? You aren't alone! This book will provide you with both the information and instructional materials you need to start using this method right away. *Argument Driven Inquiry in Biology* is a one-stop source of expertise, advice, and investigations. The book is broken into two basic parts: 1. An introduction to the stages of argument-driven inquiry from question identification, data analysis, and argument development and evaluation to double-blind peer review and report revision. 2. A well-organized series of 27 field-tested labs that cover molecules and organisms, ecosystems, heredity, and biological evolution. The investigations are designed to be more authentic scientific experiences than traditional laboratory activities. They give your students an opportunity to design their own methods, develop models, collect and analyze data, generate arguments, and critique claims and evidence. Because the authors are veteran teachers, they designed *Argument Driven Inquiry in Biology* to be easy to use and aligned with today's standards. The labs include reproducible student pages and teacher notes. The investigations will help your students learn the core ideas, crosscutting concepts, and scientific practices found in the Next Generation Science Standards. In addition, they offer ways for students to develop the disciplinary skills outlined in the Common Core State Standards. Many of today's teachers like you want to find new ways to engage students in scientific practices and help students learn more from lab activities. *Argument Driven Inquiry in Biology* does all of this even as it gives students the chance to practice reading, writing, speaking, and using math in the context of science. *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 **ENC Focus** ,1997 *Insights in Functional and Applied Plant*

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Encyclopedia of Food Microbiology Carl A. Batt,2014-04-02 Written by the world s leading scientists and spanning over 400 articles in three volumes the Encyclopedia of Food Microbiology Second Edition is a complete highly structured guide to current knowledge in the field Fully revised and updated this encyclopedia reflects the key advances in the field since the first edition was published in 1999 The articles in this key work heavily illustrated and fully revised since the first edition in 1999 highlight advances in areas such as genomics and food safety to bring users up to date on microorganisms in foods Topics such as DNA sequencing and E coli are particularly well covered With lists of further reading to help users explore topics in depth this resource will enrich scientists at every level in academia and industry providing fundamental information as well as explaining state of the art scientific discoveries This book is designed to allow disparate approaches from farmers to processors to food handlers and consumers and interests to access accurate and objective information about the microbiology of foods Microbiology impacts the safe presentation of food From harvest and storage to determination of shelf life to presentation and consumption This work highlights the risks of microbial contamination and is an invaluable go to guide for anyone working in Food Health and Safety Has a two fold industry appeal 1 those developing new functional food products and 2 to all corporations concerned about the potential hazards of microbes in their food products *The Journal of Cell Biology* ,2009 No 2 pt 2 of November issue each year from v 19 1963 47 1970 and v 55 1972 contain the Abstracts of papers presented at the Annual Meeting of the American Society for Cell Biology 3d 1963 10th 1970 and 12th 1972

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