

Activity: Human Homologous Chromosomes

Background: A human *Somatic* (body) cell has 23 pairs of chromosomes in its nucleus. Each pair of *Autosome* chromosomes is *Homologous* meaning they have a matching size, shape and gene location. One member of each pair is from the person's father ♂. The other member is from the mother ♀. The only pair of chromosomes that is not necessarily made of a matching homologous is the pair of sex chromosomes. A human female has two homologous X chromosomes but, a human male has an un-matching pair made up of an X chromosome and a Y chromosome.

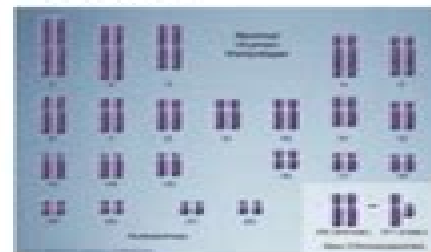
Objective: Prepare a karyotype of human chromosomes.

Materials: paper scissors
pencil glue

Procedure:

- Figure 1 shows 46 chromosomes from a human body cell. Note that 23rd sex chromosome pair shows examples for both male and female.
- Use the Cut and Paste Karyotyping Activity sheet (page 2) to carefully cut out each numbered chromosome with its identifying letter or number.
 - Place each numbered chromosome in the corresponding numbered box in the Chart 1 (page 3).
 - Carefully glue each chromosome in place.
- Cut out the unnumbered chromosomes located in the box on the Cut and Paste Karyotype Activity (page 2).
 - Match each unnumbered chromosome to its homologous chromosome and glue next to the homologous chromosome in the proper box of Chart 1.
- The last unmatched chromosome is the sex chromosome number 23.
 - Glue the sex chromosome in box number 23.
 - Answer the question as to whether the karyotype of a human male or female in the final box of Chart 1.
- Complete the following conclusion questions below.

Figure 1



Conclusion:

- How many chromosomes do humans have? _____
- How many pairs of homologous chromosomes do humans have? _____
- How is it you get a pair of matching chromosomes (Where does each chromosome come from)? _____
- What factors did you use to match up the chromosomes? _____
- When your body cells divide these chromosomes will be duplicated. What is the name of the process? _____
- When your sex cells divide the chromosomes will be reduced to half. What is the name of this process? _____

Chromosome Study Lab Answers

James V. Vandiver



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Glausser,2024-08-30 Albert Hofmann referred to lysergic acid diethylamide better known as LSD as his problem child The wonderful but worrisome psychedelic drug discovered by Hofmann both inspired and unsettled the world with the mischief of Timothy Leary the acid tests of the Merry Pranksters and social experiments during the Summer of Love and Woodstock two events that altered popular music capturing headlines in the 1960s This second edition encyclopedia updates and adds more than 200 new entries from Hank Williams III and Tucker Carlson to dinosaurs New entries provide documentation of LSD s influence during the 1960s and address a recent resurgence of cultural relevance for the drug **NextGen Genealogy**

David R. Dowell Ph.D.,2014-11-25 DNA testing can serve as a powerful tool that unlocks the hidden information within our bodies for family history research This book explains how genetic genealogy works and answers the questions of genealogists and individuals seeking information on their family trees Now that DNA testing for genealogical purposes has existed for nearly a decade and a half and been refined and improved during that time it has established its value among family history researchers It is now becoming accepted as another tool in the kit of well rounded genealogists This book covers this fast growing application of genetics empowering genealogists to apply this information to further their research It will also enable general readers to understand how genetic information can be applied to verify or refute documentary research and to break down frustrating walls that block the discovery of ancestors The book describes the three major categories of DNA testing for family history research Y chromosome tests for investigating paternal surname lines mitochondrial tests for investigating maternal umbilical lines and autosomal tests for exploring close relationships Expert genealogist David Dowell provides guidance on deciding which test to take and identifying which members of your family should be tested to answer your most important genealogical questions Readers will also learn how to interpret the results of tests and methods for further analysis to get additional value from them **EBOOK Abnormal Lab Results Manual** Geoffrey

Kellerman,2015-03-06 Abnormal Laboratory Results is a comprehensive collection of common abnormal test results which examine the dilemmas of abnormal tests and outlines how to approach them Each test is analysed and interpreted in a structured logical way and assessed in terms of its abnormal and normal reference range The results are then presented in a variety of clinical contexts so an accurate prognosis and recommendations on management can be made Each chapter was originally published as an article in the series titled Abnormal Laboratory Results by the journal Australian PrescriberKey Features 13 completely new chaptersAll previous chapters updatedPVC cover and two colour internals New Book Abnormal Laboratory Results Geoffrey Kellerman from McGraw Hill Education ANZ Medical *Middle School Life Science* Judy Capra,1999-08-23 Middle School Life Science Teacher s Guide is easy to use The new design features tabbed loose sheets which come in a stand up box that fits neatly on a bookshelf It is divided into units and chapters so that you may use only

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