

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.

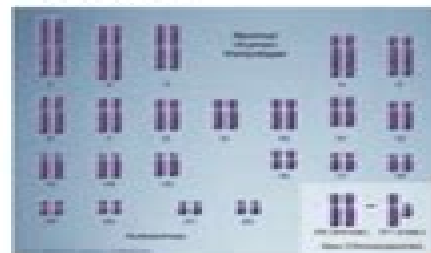
Objective: Prepare a karyotype of human chromosomes.

Materials: paper scissors
pencil glue

Procedure:

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

Figure 1



Conclusion:

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

Chromosome Study Lab Answers

RM Cervero



Chromosome Study Lab Answers:

Scientific and Technical Aerospace Reports ,1976 **Cultural Encyclopedia of LSD, 2d ed.** Wayne

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

what you need Instead of always transporting a large book or binder or box you may take only the pages you need and place them in a separate binder or folder Teachers can also share materials While one is teaching a particular chapter another may use the same resource material to teach a different chapter It s simple it s convenient *Lost and Found* Louis M. Fink MD,2014-10-08 An aristocratic Hungarian colonel whose family has been broken and scattered by the Holocaust and WWII seeks to survive and reunite his family In an adopted role as a Hassidic Jew he recovers treasures from hidden Nazi loot and schleps money from wealthy Jews around the world to Swiss accounts His sons survive behind the Iron Curtain and migrate to the West One son Robin studies at a New York cancer institute where his and his mentor s research on a cancer vaccine becomes contentious He moves to the South and becomes a prominent oncologist He shows us the intrigues of basic research and of academia where jealousy and avarice can be motives Each in their own worlds Each fights for survival and identity

Aerospace Medicine and Biology ,1976 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA **Evaluation of a Time Saving Team Laboratory Report Assessment** Heidi Elizabeth Krusenklau,1997 Innovations in E-learning, Instruction Technology, Assessment and Engineering Education Magued Iskander,2007-09-04 This book includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Engineering Education Instructional Technology Assessment and E learning The book presents selected papers form the conference proceedings of the International Conference on Engineering Education Instructional Technology Assessment and E learning EIAE 2006 All aspects of the conference were managed on line **Laboratory Test Handbook with Key Word Index** David S.

Jacobs,1988 Toxicology Research Projects Directory ,1980 An indexed directory of current research project abstracts in toxicology and related fields Criminal Investigation, a Guide to Techniques and Solutions James V. Vandiver,1983 This is a guide to techniques and solutions in criminal investigation *Anatomy and Physiology* Jay Marvin Templin,1989-06 This manual is designed for the student to use in the laboratory portion of an anatomy and physiology course It has a number of features that will help the student learn about the structure and function of the human body Pref Nuclear Science Abstracts ,1971-07 Miller Levine Biology 1e Lab Manual a (Average Advanced) Student Edition 2002c Prentice Hall Direct Education Staff,2001-04 One program that ensures success for all students **Cytogenetics and Cell Genetics** ,1987 **Lab World** ,1972 *Japanese Current Research* ,1987 *Annual Report* National Foundation,1975

Congressional Record United States. Congress,1973

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