

Materials (per student)

scissors

glue or transparent tape

Safety

Be careful when handling sharp instruments. Note all safety alert symbols next to the steps in the Procedure and review the meaning of each symbol by referring to Safety Symbols on page 8.

Procedures

Part A. Analyzing a Karyotype

1. Observe the normal human karyotype in Figure 1. Notice that the two sex chromosomes, pair number 23, do not look alike. They are different because this karyotype is of a male, and a male has an X and a Y chromosome.



Figure 1

2. Identify the centromere in each pair of chromosomes. The centromere is the area where each chromosome narrows.

Part B. Using a Karyotype to Identify a Genetic Disorder

1. Study the human chromosomes in Figure 2 on page 125. Notice that 23 chromosomes are numbered 1 through 23.
2. To match the homologous chromosomes, look carefully at the unnumbered chromosomes. Note their overall size, the position of the centromere, and the pattern of the light and dark bands. Next to the unnumbered chromosome that is most similar to chromosome 1, write 1.
3. Repeat step 2 for chromosomes 2 through 23.

Laboratory Manual Making Karyotypes Answers

Wolfgang Guggemos



Laboratory Manual Making Karyotypes Answers:

Prentice Hall Miller Levine Biology Laboratory Manual a for Students Second Edition 2004 Kenneth Raymond Miller, Joseph S. Levine, Prentice-Hall Staff, 2003-02 Authors Kenneth Miller and Joseph Levine continue to set the standard for clear accessible writing and up to date content that engages student interest Prentice Hall Biology utilizes a student friendly approach that provides a powerful framework for connecting the key concepts a biology Students explore concepts through engaging narrative frequent use of analogies familiar examples and clear and instructional graphics Whether using the text alone or in tandem with exceptional ancillaries and technology teachers can meet the needs of every student at every learning level **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 Exploring Physical Anthropology Laboratory Manual & Workbook Suzanne E. Walker-Pacheco, 2017-02-01 Exploring Physical Anthropology is a comprehensive full color lab manual intended for an introductory laboratory course in physical anthropology It can also serve as a supplementary workbook for a lecture class particularly in the absence of a laboratory offering This laboratory manual enables a hands on approach to learning about the evolutionary processes that resulted in humans through the use of numerous examples and exercises It offers a solid grounding in the main areas of an introductory physical anthropology lab course genetics evolutionary forces human osteology forensic anthropology comparative functional skeletal anatomy primate behavior paleoanthropology and modern human biological variation **Biology Living Systems** Paul J. Hummer, 1994 Contemporary Genetics Laboratory Manual Rodney J. Scott, 2001 The Living Environment Rick Hallman, 2001 **Practical Obstetrics and Gynecology** V. Insler, 1979-01-24 **CAP Today** , 1990 The Software Encyclopedia 2000 Bowker Editorial Staff, 2000-05 *A & P Applications Manual* Frederic Martini, Kathleen Welch, 2005 Cointains discussions on relevant clinical topics including disorders diagnostics case studies and review problems Bulletin of the Atomic Scientists , 1966-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world Journal of Medical Genetics , 1988 **Books in Print Supplement** , 1982 **Bibliography of Agriculture** , 1988-03 **The Publishers' Trade List Annual** , 1985

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Laboratory Manual Making Karyotypes Answers Introduction

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