

Karyotypes

Pre-Lab Discussion

Several human genetic disorders are caused by additional, missing, or damaged chromosomes. One way of studying genetic disorders is to observe the chromosomes themselves. In order to do this, cells from a person are grown in a laboratory. After the cells have reproduced a few times, they are treated with a chemical that stops cell division at the metaphase stage. During metaphase, the chromosomes are at the best length for identification.

The cells are treated further, stained, and then placed on glass slides. The chromosomes are observed under the microscope, where they are counted, checked for abnormalities, and photographed. The photograph is then enlarged, and the chromosomes are individually cut out. The chromosomes are identified and arranged in homologous pairs. Homologous chromosomes are identical, or matching, chromosomes. The arrangement of homologous pairs is called a karyotype. In this investigation, you will use a sketch of chromosomes to make a karyotype. You will also examine the karyotype to determine the presence of any genetic defects.

Part A: Analyzing a Karyotype

1. Observe the *normal* karyotype in Figure 1. Notice that the two sex chromosomes, pair numbers 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.
2. Identify the centromere in each pair of chromosomes. The centromere is the area where each chromosome narrows.

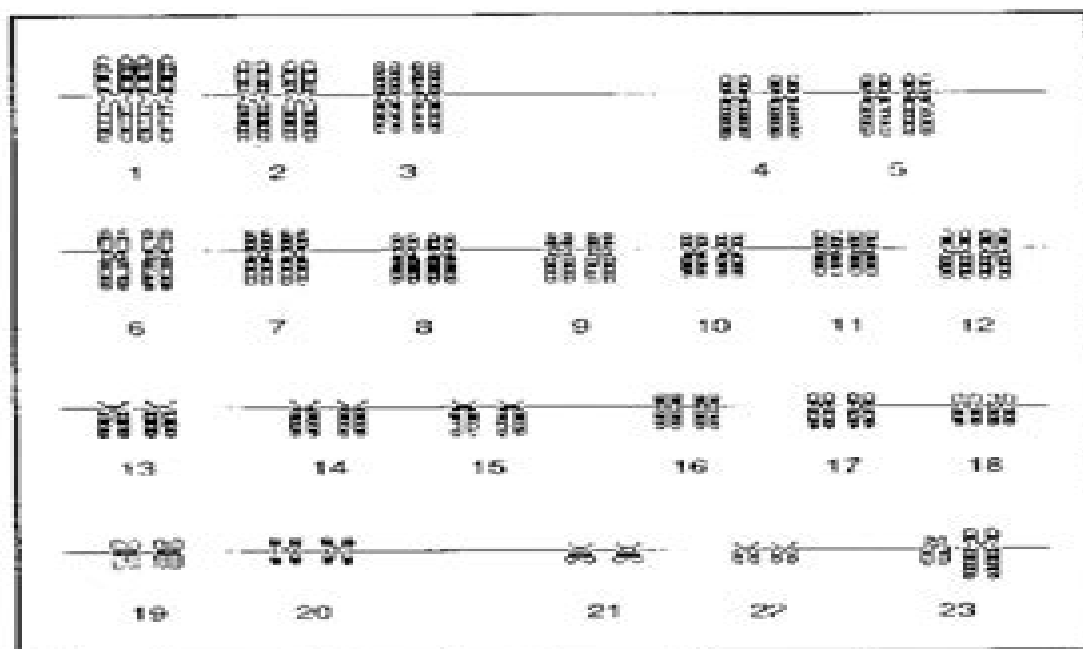


Figure 1

Karyotypes Lab Answers

Mary Louise Turgeon



Karyotypes Lab Answers:

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. **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 *Genetics and Evolutionary Biology - Laboratory* Mr. Rohit Manglik, 2024-03-04 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources. Specializing in competitive exams and academic support, EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels. 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. *Linne & Ringsrud's Clinical Laboratory Science - E-Book* Mary Louise Turgeon, 2014-04-14 Updated and easy to use. Linne Ringsrud's Clinical Laboratory Science: The Basics and Routine Techniques 6th Edition delivers a fundamental overview of the laboratory skills and techniques essential for success in your classes and your career. Author Mary Louise Turgeon's simple straightforward writing clarifies complex concepts, and a discipline by discipline approach helps you build the knowledge to confidently perform clinical laboratory tests and ensure accurate, effective results. Expert insight from respected educator and author Mary Louise Turgeon reflects the full spectrum of clinical laboratory science. Engaging full color design and illustrations familiarize you with what you'll see under the microscope. Streamlined approach makes must know concepts and practices more accessible. Broad scope provides an ideal introduction to clinical laboratory science at various levels including MLS, MLT, and Medical Assisting. Hands on procedures guide you through the exact steps you'll perform in the lab. Learning objectives help you identify key chapter content and study more effectively. Case studies challenge you to apply concepts to realistic scenarios. Review questions at the end of each chapter help you assess your understanding and identify areas

requiring additional study A companion Evolve website provides convenient online access to procedures glossary audio glossary and links to additional information Updated instrumentation coverage familiarizes you with the latest technological advancements in clinical laboratory science Perforated pages make it easy for you to take procedure instructions with you into the lab Enhanced organization helps you study more efficiently and quickly locate the information you need Convenient glossary provides fast easy access to definitions of key terms 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 HIP Biology ,1996 Chinese Journal of Genetics ,1997 Instructor's Manual to Accompany Biology Laboratory Carolyn Eberhard,1987 **Comprehensive Management of Skull Base Tumors** Ehab Y. Hanna,Franco DeMonte,2008-11-24 The management of tumors in and adjacent to the skullbase is challenging given the complex and critically important anatomy of the region and the wide diversity of tumor pathologies that may be encountered To help navigate the complexities of contemporary multidisciplinary management of these patients Drs Hanna and DeMonte bring you **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 Journal of Shellfish Research ,2004 **Genetics Abstracts ,1998** *Biological Explorations* Gunstream,1994-03 **Scientific and Technical Aerospace Reports ,1976** Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **Youmans Neurological Surgery E-Book** H. Richard Winn,2011-11-17 Effectively perform today s most state of the art neurosurgical procedures with Youmans Neurological Surgery 6th Edition edited by H Richard Winn MD Still the cornerstone of unquestioned guidance on surgery of the nervous system the new edition updates you on the most exciting developments in this ever changing field In print and online it provides all the cutting edge details you need to know about functional and restorative neurosurgery FRN deep brain stimulation DBS stem cell biology radiological and nuclear imaging neuro oncology and much more And with nearly 100 intraoperative videos online at www.expertconsult.com as well as thousands of full color illustrations this comprehensive multimedia 4 volume set remains the clinical neurosurgery reference you need to manage and avoid complications overcome challenges and maximize patient outcomes Overcome any clinical challenge with this comprehensive and up to date neurosurgical reference and ensure the best outcomes for your patients Rely on this single source for convenient access to

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Winston,Holt, Rinehart and Winston Staff,2004 Cytogenetics and Cell Genetics ,1989 **Biology** Holt Rinehart & Winston,1995 *Laboratory Animal Science* **Archives of Gynecology and Obstetrics** ,1990

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