

Chapter 14 The Human Genome**Making Karyotypes****Introduction**

Several human genetic disorders are caused by extra, missing, or damaged chromosomes. In order to study these disorders, cells from a person are grown with a chemical that stops cell division at the metaphase stage. During metaphase, a chromosome exists as two chromatids attached at the centromere.

The cells are stained to reveal banding patterns and 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 images of the chromosomes are individually cut out. The chromosomes are identified and arranged in homologous pairs. 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 chromosomal abnormalities.

Problem

How can chromosomes be observed?

Pre-Lab Discussion

Read the entire investigation. Then work with a partner to answer the following questions.

1. What clues to the presence of certain genetic disorders can be seen in a karyotype?

2. Why might a laboratory worker attempting to diagnose a genetic disorder prefer to work with photographs of chromosomes rather than the chromosomes themselves?

3. Why would it be much more difficult to construct a karyotype of unstained chromosomes?

4. Which pair of chromosomes can contain two very different chromosomes and still be considered normal? Explain your answer.

5. How do autosomes differ from sex chromosomes?

Making Karyotypes Chapter 14

Xiang Xie



Making Karyotypes Chapter 14:

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 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

Flow Cytogenetics ,2012-12-02 This is the first book to be devoted entirely to the application and development of flow techniques in cytogenetics It provides comprehensive information on the use of flow cytometry and sorting for chromosome classification and purification Cytogenetics and molecular biologists will find this book an invaluable reference source Practical details for the preparation and analysis of chromosomes using flow cytometry Flow karyotyping for sensitive rapid analysis of chromosome normality and the detection of aberrant chromosomes Flow sorting as a source of chromosome specific DNA for gene mapping and recombinant DNA libraries Construction and current status of chromosome specific recombinant DNA libraries

Gardner and Sutherland's Chromosome Abnormalities and Genetic Counseling David J. Amor,Lorenzo and Pamela Galli Chair David J Amor,R. J. McKinlay Gardner,2025-11-14 Chromosome Abnormalities and Genetic Counseling 6th Edition is the genetics professional s definitive guide to navigating chromosome disorders and clinical questions posed by the families they impact Thoroughly updated and building on the beloved five previous editions the book includes three entirely new chapters on copy number variants chromosomal phenotypes and ethical and counseling issues

Organizational Behavior Michael A. Hitt,C. Chet Miller,Adrienne Colella,2005-11-04 This text shows readers how to efficiently manage behavior in organizations that in turn helps implement the organization s strategy affects the organization s productivity and allows the organization to gain advantages over its competitors

Stem Cells in Human Reproduction Carlos Simon,Antonio Pellicer,2006-12-05 This book gives an overview of the revolutionary advances in stem cell science that may potentially impact human reproductive medicine The contents cover the production and regeneration of female and male germ cells trophoblasts and endometrium from human embryonic and adult stem cells New developments in hESC derivation that will impact clinic

Clinical Laboratory Medicine Kenneth D. McClatchey,2002 This thoroughly updated Second Edition of Clinical Laboratory Medicine provides the most complete current and clinically oriented information in the field The text features over 70 chapters seven new to this edition including medical laboratory ethics point of care testing bone marrow transplantation and specimen testing providing comprehensive coverage of contemporary laboratory medicine Sections on

molecular diagnostics cytogenetics and laboratory management plus the emphasis on interpretation and clinical significance of laboratory tests why a test or series of tests is being done and what the results mean for the patient make this a valuable resource for practicing pathologists residents fellows and laboratorians Includes over 800 illustrations 353 in full color and 270 new to this edition Includes a Self Assessment and Review book **Hematopathology** Eric D. Hsi,2012-01-01 This volume in the Foundations in Diagnostic Pathology Series packs today s most essential hematopathology know how into a compact high yield format Its pragmatic well organized approach abundant full color illustrations and at a glance tables make the information you need easy to access Reviews normal histology before examining abnormal findings Covers all of the most commonly seen neoplastic and non neoplastic conditions of the hematologic system Uses a consistent user friendly format to explore each entity s clinical features pathologic features gross and microscopic ancillary studies differential diagnoses and prognostic and therapeutic considerations Offers hundreds of full color illustrations that demonstrate the key features of a wide variety of pathologies The Foundations in Diagnostic Pathology Series answers the call for fresh affordable and easy to use guidance Each region specific volume provides all of the most essential information on the pathologic entities encountered in practice Series Editor John R Goldblum MD FACP FASCP FACG Hematopathology E-Book Eric D. Hsi,2017-09-19 With its highly templated easy to use format and new information throughout the third edition of Hematopathology a volume in the Foundations in Diagnostic Pathology series is an essential text for residents and pathologists Throughout this practical reference traditional morphologic diagnostic pathology is supplemented with clinical immunohistochemical and molecular genetic information Fully revised to include recent advances in the field this affordable resource by Dr Eric D Hsi is ideal for study and review as well as everyday clinical practice A highly templated format that includes clinical imaging and management prognostic features pathologic features ancillary studies differential diagnosis and selected bibliography A focus on the specific features of various entities including differential diagnoses Clinical features pathologic features and key facts summarized in quick reference boxes for fast retrieval of information Hundreds of full color photomicrographs and gross photographs depict important pathologic features enabling you to form a differential diagnosis and compare your findings with actual cases Contributions from internationally recognized pathologists keeping you up to date with the latest information in the field Biology Robert D. Allen,1995 This book presents the fundamental concepts of biology and develops students critical thinking skills to apply these concepts It introduces the procedures of hypothesis formation prediction experimental design and interpretation as the essential parts of scientific investigation It covers cell theory and focus es on energy as well as the catalytic action of enzymes and diffusion across cell membranes It covers the major physiological systems in organisms Primary emphasis is placed on the application of basic concepts such as diffusion osmosis energy capture and release and the action of enzymes This book include s molecular biology and population genetics as well as cell division and Mendelian inheritance It finally cover s the mechanisms of selection and speciation as well as the

long range implications of evolution Pref Biosocial Genetics Gerald James Stine,1977 *Genetics* Arthur P. Mange,Elaine Johansen Mange,1980 **A Manual of Mammalogy** Anthony F. DeBlase,Robert Eugene Martin,1974 Biology Eric Strauss,Marylin Lisowski,2000 **Folia Biologica** ,2001 *Cell Biology* Eduardo D. P. De Robertis,Wiktor W. Nowinski,Francisco Alberto Saez,1970 *Genetics* Peter J. Russell,1998 Containing updated information on molecular genetics Peter J Russell s text emphasises a problem solving approach that helps students to develop and apply their critical thinking and analysis skills **Clinical Laboratory Immunology** Connie R. Mahon,Diane G. Tice,2006 This unique resource is the first covering molecular diagnostic technology that is specifically geared to the needs of those in clinical laboratory sciene or medical technology This book covers molecular diagnostic technology and the multidisciplinary clinical applications of this technology Topics include immunology infectious and autoimmune diseases clinical applications of the flow of cytometry organ transplantation molecular methods and more Clinical Laboratory Science Medical Technology students Biology John W. Kimball,1965 **Genetics** Leland Hartwell,2000 *Genetics From Genes to Genomes* is a cutting edge introductory genetics text authored by an unparalleled author team including Nobel Prize winner Leland Hartwell The Third Edition continues to build upon the integration of Mendelian and molecular principles providing students with the links between early genetics understanding and the new molecular discoveries that have changed the way the field of genetics is viewed

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