

## KARYOTYPING LAB

### Introduction:

Scientists have developed several different tools and techniques for studying chromosomes, genes and base pairs in humans and other organisms. One of the most useful techniques is karyotyping. **A karyotype is a photograph of all of an organism's chromosomes.** The chromosomes in the karyotype are arranged in homologous pairs according to size (largest to smallest). Homologous pairs can be determined by centromere placement, equal length of top and bottom arms as well as similar band placement on each arm. *Karyotyping helps doctors diagnose and treat genetic disorders.* Doctors use a normal human karyotype and compare it to the karyotype of a patient to determine if there are abnormalities. Some of the characteristics the physician will compare are:

- A. Total number of chromosomes - normal humans have 46 chromosomes (23pairs), so if the number is higher or lower then an abnormality exists
- B. Homologous pairs for the first 22 pairs of chromosomes - once centromeres are aligned, top and bottom arms are of equal length and if not then an abnormality exists
- C. Sex Chromosomes (23rd pair) - if female, then 2 homologous X chromosomes (XX) will be present and if male, an X chromosome and a Y chromosome (XY) will be present, so if there are additional or fewer sex chromosomes then an abnormality exists. The X chromosome is much larger than the Y.

### Procedure:

1. From the chromosome scatter sheet you received, carefully cut out each of the chromosomes into rectangles, so they will fit into the layout worksheet.
2. Arrange the chromosomes into homologous pairs, using your Karyotype Reference Sheet as a guide. Hint: Laying your cut chromosomes directly on top of the matching chromosomes on the Karyotype Reference Sheet will help you in this process.
3. Once all chromosomes are laid down on the Reference Sheet begin gluing or taping each pair onto the Karyotype Layout Worksheet. Hint: You may have abnormalities in your karyotype (more or less than 46 chromosomes), so maintain the number of chromosomes you were given.
4. Upon completion of gluing or taping all chromosomes to the Layout Worksheet, answer the Discussion Questions using the background information, your karyotype and Explanation of Chromosome Disorders

# Karyotyping Exploration Lab Answers

**Rachel Sandford**



## **Karyotyping Exploration Lab Answers:**

*Holt Biology: Meiosis and sexual reproduction*, 2003      **Holt Biology** Rob DeSalle, 2008      **The Scientific Basis of Urology** Anthony R. Mundy, John Fitzpatrick, David E. Neal, Nicholas J. R. George, 1999-03-01 Every area function illness and cure of the urinary tract along with specific discussions of the relevant anatomy and physiology is covered in clearly written text abundantly illustrated with full colour photographs and diagrams      **CUET PG Anthropology - Question Bank (2400 MCQs Chapterwise)** Mocktime Publication, 2400 MCQs CUET PG Question Bank Anthropology CUEG PG Previous Papers CUET PG Syllabus CUET PG Exam Pattern      **ENC Focus Review**, 2003      **Oxford Textbook of Medicine** David A. Warrell, 2003 The Oxford Textbook of Medicine provides all that any doctor needs to know to practice top level internal medicine It gives comprehensive coverage of the epidemiology aetiology and mechanism of disease as well as clear unambiguous coverage of the diagnosis practical management and prevention of the entire spectrum of medical disorders There are major introductory sections on the scientific basis of disease and in the system based clinical sections genetic predisposition pathophysiology pathogenesis molecular mechanisms and cell biology are covered in depth for all significant medical syndromes Clinical descriptions of diseases are clearly and memorably written based on the experience and insight of the authors many of whom are among the world's most distinguished medical scientists Chapters are not only evidence based but also on clinical experience and a thorough survey of all the relevant literature Throughout the approach of OTM is humane and ethical and at the same time factual reliable honest especially where knowledge is limited and rigorously scientific This is not just a textbook of First World medicine It provides practical guidance for doctors working in a variety of medical setting the value of a logical clinical approach rather than immediate resort to expensive imaging and laboratory tests Moore of the contributing authors than ever before are from outside Europe including strong representation of North American medicine The new editorial team has ensured that the OTM continues to reflect rapid changes in medical practice there are new sections on intensive care alcohol and drug abuse clinical pharmacology and therapeutics world health clinical trials and evidence based medicine adolescent medicine sports medicine and emergency medicine more than half the contributors are new for this edition and most of the text has been heavily revised The striking new page and cover design reflect the significant changes made in this new edition The Textbook is illustrated by over 2000 two color diagrams and many color Plates The index is the most detailed and user friendly of any major medical textbook in an emergency the reader can access information quickly whether on the ward in office or at home Like its predecessors OTM4 will be the trusted and ultimate reference in libraries hospitals doctors consulting rooms solicitors offices press offices and primary care practices worldwide      **Laboratory Investigations in Cell and Molecular Biology** Allyn A. Bregman, 2002 This revised workbook lab text consists of 21 projects that can be executed with readily available materials a minimum of elaborate equipment and a reasonable amount of preparation time Early projects deal with biochemistry and cytochemistry the middle ones focus on

organelles and their physiology and later activities explore more advanced molecular topics such as restriction mapping strategies New to this edition a concise section on statistics covering the mean standard deviation and standard error and a chapter designed to enable students to write up their work as a lab report

**From Ancient Shadows** Wayne Trebbin M.D.,2022-05-25 Dr Janis Michaels is doing a fellowship in cardiology at a major medical center She is in the emergency room at the same time a mysterious female child is receiving care there It soon becomes apparent to everyone in the department that something is terrifyingly wrong The child is violent beyond her apparent capacity and Janis soon learns that this is no child at all It is a creature that has survived for millenia It is strong and it is hungry It wants blood and flesh Human is its favorite and it has found the perfect place to feed a hospital Janis discovers all of this but no one believes her not the police not the Chief of Medicine who is her father no one She fears for her life and the lives of others but there is no retreat for her The creature now knows her

**The National Agricultural Directory 2011** ,2010 Avian Genomics in Ecology and Evolution Robert H. S. Kraus,2019-06-29 Birds catch the public imagination like no other group of animals in addition birders are perhaps the largest non professional naturalist community Genomics and associated bioinformatics have revolutionised daily life in just a few decades At the same time this development has facilitated the application of genomics technology to ecological and evolutionary studies including biodiversity and conservation at all levels This book reveals how the exciting toolbox of genomics offers new opportunities in all areas of avian biology It presents contributions from prominent experts at the intersection of avian biology and genomics and offers an ideal introduction to the world of genomics for students biologists and bird enthusiasts alike The book begins with a historical perspective on how genomic technology was adopted by bird ecology and evolution research groups This led as the book explains to a revised understanding of avian evolution with exciting consequences for biodiversity research as a whole Lastly these impacts are illustrated using seminal examples and the latest discoveries from avian biology laboratories around the world

**ENC Focus** ,1997 Subject Index of Current Extramural Research Administered by the National Cancer Institute National Cancer Institute (U.S.),1976 Provides information concerning research grants and contracts supported by the National Cancer Institute

**Repository of Chromosomal Variants and Anomalies in Man** ,1981 **CD-ROMs and Laserdiscs for Science** ,1997 **Index Medicus** ,2003-07 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

*Proceedings of the Tenth International Congress of Entomology, Montreal, August 17-25, 1956* ,1958 *Sesame* Dorothea Bedigian,2010-10-14 The first comprehensive review of sesame and its close relative Sesame the genus *Sesamum* covers ethnographic data modern use linguistic analysis of sesame names from around the world market size export and import data geographical sources use in the food and cosmetic industries and much more The book includes a historical review of the genus *Sesamum* that reveals its place in present day traditions and cultivation in Africa and Asia Expanding coverage from archaeological and anthropological literature from India Mesopotamia and Egypt this ethnobotanical monograph draws on folk sources reviews

the phytochemistry of Sesamum and presents extensive references      Genetic Disorders of the Skin Joseph C. Alper,1991  
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