

Name: _____

Period: _____

Date: _____

Karyotype Worksheet

- Look at the karyotype to the right.
 - Circle the Autosomal chromosomes.
 - Put a box around the Sex chromosomes.
 - Is this person male or female? _____
- How many total chromosomes does a normal person have?
Circle 23 46
- Put a star on a homologous pair.



- Look at the karyotype to the right. Do you see any chromosomal abnormalities? YES NO
- Put a circle around the abnormal chromosomes.
- Using the key below for chromosomal diseases, identify the disease this person has _____
- Is this person male or female? _____



- Look at the karyotype to the left. Is it
MALE or FEMALE

NORMAL or ABNORMAL

- Using the key below, what disease does the karyotype above have? _____
- Which chromosome is the longest and has the most genes? 1 or 21
- Which chromosome is the shortest and has the fewest genes? 1 or 22
- In a normal karyotype how many autosomal chromosomes are there? _____

- In a normal karyotype how many sex chromosomes are there? _____
- One type of chromosomal mutation is trisomy 21. What is another name for it? _____

Chromosome Problem	Name of Disorder
X	Turner's Syndrome
XOX	Triple X Disease
XOY	Klinefelter's Syndrome
XYY	Jacob's Syndrome
Trisomy 18	Edward's Syndrome
Trisomy 21	Down's Syndrome
Trisomy 13	Patau Syndrome

Karyotypes Lab Answers

**Kenneth Raymond Miller, Joseph S.
Levine, Prentice-Hall Staff**



Karyotypes Lab Answers:

Karyotypes of Parasitic Hymenoptera Vladimir E. Gokhman, 2009-03-06 Not so long ago karyology was considered a vanguard biological discipline which could solve nearly all problems of systematics and phylogenetics We liked to believe in the bright future in a magician who will appear like a Jack in the box and reveal the truth to us However excessive hopes related to the chromosomal study came true only in part In the meantime new candidates claimed the place of the magician i.e. phenetics succeeded by cladistics and now by molecular methods in systematics and phylogeny Nevertheless it becomes progressively more obvious nowadays that cladistics is just a bright envelope for the fairly primitive and theoretically vulnerable approach that deprives living organisms and their groups of the traces of integrity and reduces them to the plain sum of characters Modern molecular techniques look more perceptive and may yield more reliable results although the details are sometimes embarrassing and comparison with the fossil record does not necessarily reveal their superiority over cladistics These methods are accessible by research teams with massive funding and good equipment and this strongly decreases the range and diversity of the material studied However classifications are often created by individual systematists with the restricted access to molecular methods In this context karyological techniques are in the preferable position although they certainly do not provide direct and immaculate markers of taxonomic and phylogenetic relationships chromosomal study is a morphological method with all its advantages and drawbacks

Mammalogy Techniques Lab Manual James M. Ryan, 2018-10-30 Get outside A hands on lab manual for instructors incorporating fieldwork into their courses on mammalogy Mammals inhabit nearly every continent and every sea They have adapted to life underground in the frozen Arctic the hottest deserts and every habitat in between In *Mammalogy Techniques Lab Manual* the only field manual devoted to training the next generation of mammalogists biologist and educator James M Ryan details the modern research techniques today's professionals use to study mammals wherever they are found Ideal for any mammalogy or wildlife biology course this clear and practical guide aids students by getting them outside to study mammals in their natural environments Twenty comprehensive chapters cover skull and tooth identification radio and satellite GPS tracking phylogeny construction mark and recapture techniques camera trapping museum specimen preparation optimal foraging and DNA extraction among other topics Each chapter includes several exercises with step by step instructions for students to collect and analyze their own data along with background information downloadable sample data sets to use when it is not practical to be out in the field and detailed descriptions of useful open source software tools This pragmatic resource provides students with real world experience practicing the complex techniques used by modern wildlife biologists With more than 60 applied exercises to choose from in this unique manual students will quickly acquire the scientific skills essential for a career working with mammals

Exploring Physical Anthropology: Lab Manual and Workbook, 4e Suzanne E Walker Pacheco, 2022-01-14 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

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Carcinogenesis Abstracts ,1974 **Instructor's Manual to Accompany Biology Laboratory** Carolyn Eberhard, 1987

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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

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Gene Cloning Lesley Tillman, 1900 Gene cloning is the act of making copies or clones of a single gene Once a gene is identified clones can be used in many areas of biomedical and industrial research Genetic engineering is the process of cloning genes into new organisms for altering the DNA sequence to change the protein product Genetic engineering depends on our ability to perform the following essential procedures Molecular cloning takes advantage of the fact that the chemical structure of DNA is fundamentally the same in all living organisms The available information on gene cloning and transgenic development in horticulture crops has been compiled and it is hoped that this would be very useful to students and researchers in the field of biotechnology of horticulture crops Therefore if any segment of DNA from any organism is inserted into a DNA segment containing the molecular sequences required for DNA replication and the resulting recombinant DNA is introduced into the organism from which the replication sequences were obtained then the foreign DNA will be replicated along with the host cell's DNA in the transgenic organism The book has been designed for students research scholars and teachers involved in the field

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