

Name: _____

Date: _____ Period: _____

Pedigree Worksheet

You can look at a pedigree and determine whether traits are dominant or recessive, and you can also tell if it is sex-linked or autosomal. A sex-linked recessive characteristic is determined by an allele that is carried only on the X chromosomes. The shorter Y chromosome does not carry an allele for a sex-linked trait. Since there is only one X in his genotype, XY, a male who carries a particular recessive allele on the X chromosome will have the sex-linked condition. A female who carries a recessive allele in one X chromosome will not show the condition if there is a dominant allele on her other X chromosome. She will express the recessive condition only if she inherits two recessive alleles – one from each parent. Her chances of inheriting the condition are thus greatly reduced.

One sex linked trait is hemophilia, a condition in which the blood does not clot properly. Most people who have hemophilia are men. View the pedigree below and interpret the diagram to answer the questions.

A. Interpreting a human pedigree. (30 points)

Use Figure A to answer the questions below.

- Number all individuals on the pedigree at the top of each shape.
- In a pedigree, a square represents a male. If it is darkened he has hemophilia; if clear, he had normal blood clotting.
 - How many males are there? _____
 - How many males have hemophilia? _____
- A circle represents a female. If it is darkened, she has hemophilia; if open she is normal.
 - How many female are there? _____
 - How many females have hemophilia? _____
- A marriage is indicated by a horizontal line connecting a circle to a square.
 - How many marriages are there? _____
- A line perpendicular to a marriage line indicates the offspring. If the line ends with either a circle or a square, the couple had only one child. However, if the line is connected to another horizontal line, then several children were produced, each indicated by a short vertical line connected to the horizontal line. The first child born appears to the left and the last born to the right.
 - How many children did the first couple (couple in row I) have? _____
 - How many children did the third couple (couple in row III) have? _____
- Level I represent the first generation, level II represents the second generation.
 - How many generations are there? _____
 - How many members are there in the fourth generation? _____
- The genotypes of the males in a pedigree for sex-linked inheritance are easy to determine since normal blood clotting (N) is dominant and hemophilia is recessive (n). Since these alleles are on the X chromosome only, a male represented by a clear square will have the genotype $X^N Y$. A darkened square will be $X^n Y$. Label under each individual on the pedigree.
 - What is the genotype for Individual #1? _____ Phenotype? _____
 - What is the genotype for Individual #10? _____ Phenotype? _____
 - What is the genotype for the first born male in generation III? _____ Phenotype? _____
- Females with hemophilia have an easy genotype to identify. They are all $X^n X^n$. Both recessive alleles must be present for a female to have hemophilia. If one dominant allele is present (X^N), the individual would be normal for clotting.
 - How many females have the genotype $X^N X^n$? _____
- Females who do not show the trait for hemophilia may be homozygous dominant ($X^N X^N$) or heterozygous ($X^N X^n$). A heterozygous female is called a carrier. Examination of offspring can often determine which genotype the parents have. If any child (son or daughter) has hemophilia, then the female must be heterozygous. If her son has hemophilia, he has genotype $X^n Y$. He inherited the Y from the father, so the other allele is his genotype (X^n) had to come from the mother. If a daughter has hemophilia ($X^n X^n$), she inherited an X^n from each parent, thus making the genotype for the normal mother $X^N X^n$.
 - What would be the genotype for the female who marries into the family in generation III? _____

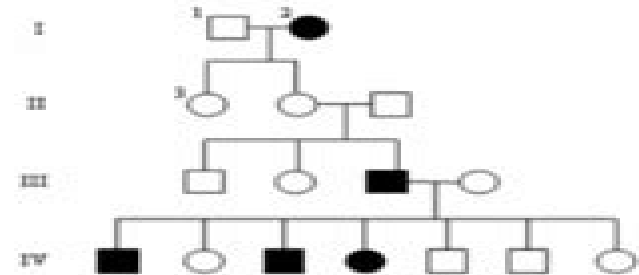


Figure A

Human Pedigree Genetics Bio Lab Answers

Murray P. Pendarvis, John L. Crawley



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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 **Biology Living Systems**

Paul J. Hummer, 1994 Genetics of Bone Biology and Skeletal Disease Rajesh V. Thakker, Michael P. Whyte, John Eisman, Takashi Igarashi, 2017-10-31 Genetics of Bone Biology and Skeletal Disease Second Edition is aimed at students of bone biology and genetics and includes general introductory chapters on bone biology and genetics More specific disease orientated chapters comprehensively summarize the clinical genetic molecular animal model molecular pathology diagnostic counseling and treatment aspects of each disorder The book is organized into five sections that each emphasize a particular theme general background to bone biology general background to genetics and epigenetics disorders of bone and joint parathyroid and related disorders and vitamin D and renal disorders The first section is specifically devoted to providing an overview of bone biology and structure joint and cartilage biology principles of endocrine regulation of bone and the role of neuronal regulation and energy homeostasis The second section reviews the principles and progress of medical genetics and epigenetics related to bone disease including genome wide association studies GWAS genomic profiling copy number variation prospects of gene therapy pharmacogenomics genetic testing and counseling as well as the generation and utilizing of mouse models The third section details advances in the genetics and molecular biology of bone and joint diseases both monogenic and polygenic as well as skeletal dysplasias and rarer bone disorders The fourth section highlights the central role of the parathyroids in calcium and skeletal homeostasis by reviewing the molecular genetics of hyperparathyroidism hypoparathyroidism endocrine neoplasias and disorders of the PTH and calcium sensing receptors The fifth section details molecular and cellular advances across associated renal disorders such as vitamin D and rickets Identifies and analyzes the genetic basis of bone disorders in humans and demonstrates the utility of mouse models in furthering the knowledge of

mechanisms and evaluation of treatments Demonstrates how the interactions between bone and joint biology physiology and genetics have greatly enhanced the understanding of normal bone function as well as the molecular pathogenesis of metabolic bone disorders Summarizes the clinical genetic molecular animal model molecular pathology diagnostic counseling and treatment aspects of each disorder **The Biology and Conservation of Animal Populations** John A.

Vucetich,2024-07-02 A foundational text on animal population conservation featuring practical applications and case studies The study of animal populations is integral to wildlife ecology and conservation Analyzing population biology data can help facilitate the recovery of threatened species manage overabundant species and ensure sustainable levels of harvest But for many students the complex math involved is a barrier to understanding the importance of the data s applications The emphasis on solving mathematical problems in traditional population biology texts may also seem far removed from the heart of conservation work that students find most compelling The Biology and Conservation of Animal Populations is built differently It provides a thorough introduction to this fundamental science in an accessible context that centers conservation not equations This textbook written by prominent conservation scientist author and wolf biologist John A Vucetich challenges students to think critically about big questions in conservation work such as what does and does not count as an endangered species and why and addresses these issues using practical examples and case studies The crucial mathematics concepts needed to fully understand these issues are explained by directly connecting the equations with their use in efforts to conserve animal populations Included in the text are explicit learning goals for each chapter in depth case studies and step by step exercises demonstrating how to perform calculations and simulations in Excel and online supplementary materials Vucetich also gives substantive attention to the growing call for integrative learning by connecting population science to the ethical considerations that guide its application **Exploring Biology in the Laboratory: Core Concepts** Murray P.

Pendarvis,John L. Crawley,2019-02-01 Exploring Biology in the Laboratory Core Concepts is a comprehensive manual appropriate for introductory biology lab courses This edition is designed for courses populated by nonmajors or for majors courses where abbreviated coverage is desired Based on the two semester version of Exploring Biology in the Laboratory 3e this Core Concepts edition features a streamlined set of clearly written activities with abbreviated coverage of the biodiversity of life These exercises emphasize the unity of all living things and the evolutionary forces that have resulted in and continue to act on the diversity that we see around us today *Encyclopedia of Evolutionary Biology* ,2016-04-14 Encyclopedia of Evolutionary Biology Four Volume Set is the definitive go to reference in the field of evolutionary biology It provides a fully comprehensive review of the field in an easy to search structure Under the collective leadership of fifteen distinguished section editors it is comprised of articles written by leading experts in the field providing a full review of the current status of each topic The articles are up to date and fully illustrated with in text references that allow readers to easily access primary literature While all entries are authoritative and valuable to those with advanced understanding of

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Table of Contents Human Pedigree Genetics Bio Lab Answers

1. Understanding the eBook Human Pedigree Genetics Bio Lab Answers
 - The Rise of Digital Reading Human Pedigree Genetics Bio Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Human Pedigree Genetics Bio Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Human Pedigree Genetics Bio Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Human Pedigree Genetics Bio Lab Answers
 - Personalized Recommendations
 - Human Pedigree Genetics Bio Lab Answers User Reviews and Ratings
 - Human Pedigree Genetics Bio Lab Answers and Bestseller Lists
5. Accessing Human Pedigree Genetics Bio Lab Answers Free and Paid eBooks
 - Human Pedigree Genetics Bio Lab Answers Public Domain eBooks
 - Human Pedigree Genetics Bio Lab Answers eBook Subscription Services
 - Human Pedigree Genetics Bio Lab Answers Budget-Friendly Options
6. Navigating Human Pedigree Genetics Bio Lab Answers eBook Formats

- ePub, PDF, MOBI, and More
 - Human Pedigree Genetics Bio Lab Answers Compatibility with Devices
 - Human Pedigree Genetics Bio Lab Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Human Pedigree Genetics Bio Lab Answers
 - Highlighting and Note-Taking Human Pedigree Genetics Bio Lab Answers
 - Interactive Elements Human Pedigree Genetics Bio Lab Answers
 8. Staying Engaged with Human Pedigree Genetics Bio Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Human Pedigree Genetics Bio Lab Answers
 9. Balancing eBooks and Physical Books Human Pedigree Genetics Bio Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Human Pedigree Genetics Bio Lab Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Human Pedigree Genetics Bio Lab Answers
 - Setting Reading Goals Human Pedigree Genetics Bio Lab Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Human Pedigree Genetics Bio Lab Answers
 - Fact-Checking eBook Content of Human Pedigree Genetics Bio Lab Answers
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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