

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? \_\_\_\_\_

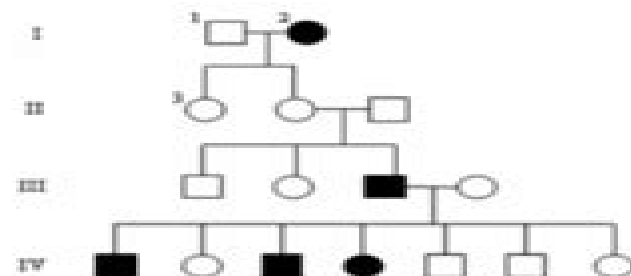


Figure A

# Human Pedigree Genetics Bio Lab Answers

**University of Michigan. Laboratory of  
Vertebrate Biology**



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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

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skeletal anatomy primate behavior paleoanthropology and modern human biological variation      *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      *Behavioral Ecology and Conservation Biology* Timothy M. Caro, 1998-08-27 Behavioural ecologists study how animals maximize their genetic representation whilst conservation biologists study small populations attempt to prevent species extinctions This volume attempts to link these disciplines formally      **Report** University of Michigan. Laboratory of Vertebrate Biology, 1946      **University of Michigan Official Publication** , 1948

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