

Name :

Number :

Period :

Pedigrees

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 on 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.

1. Number all individuals on the pedigree at the top of each shape.

2. In a pedigree a square represents a male. If it is darkened he has hemophilia; if clear, he had normal blood clotting.

- a. How many males are there? _____
b. How many males have hemophilia? _____

3. A circle represents a female. If it is darkened, she has hemophilia; if open she is normal.

- a. How many females are there? _____
b. How many females have hemophilia? _____

4. A marriage is shown by a horizontal line connecting a circle to a square.

- a. How many marriages are there? _____

5. 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 shown 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.

- a. How many children did the couple in row I have? _____
b. How many children did the couple in row II have? _____

6. Level I represents the first generation, level II represents the second generation.

- a. How many generations are there? _____
b. How many members are there in the fourth generation? _____

7. 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^NY . A darkened square will be X^nY . Label under each male on the pedigree.

- a. What is the genotype for Individual #1? _____ Phenotype? _____
b. What is the genotype for Individual #10? _____ Phenotype? _____
c. What is the genotype for the first born male in generation III? _____ Phenotype? _____

8. Females with hemophilia have an easy genotype to identify. They are all X^nX^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.

- a. How many females have the genotype X^nX^n ? _____

9. Females who do not show the trait for hemophilia may be homozygous dominant (X^NX^N) or heterozygous (X^NX^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^nY . 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^nX^n), she inherited an X^n from each parent, thus making the genotype for the normal mother X^NX^n .

- a. What would be the genotype for the female who marries into the family in generation III? _____
b. How did you determine her genotype? _____



Human Pedigree Genetics Lab Answer Key

Terry C. Jones



Human Pedigree Genetics Lab Answer Key:

Human Genetics and Genomics, Includes Wiley E-Text Bruce R. Korf, Mira B. Irons, 2013-02-11 This fourth edition of the best selling textbook Human Genetics and Genomics clearly explains the key principles needed by medical and health sciences students from the basis of molecular genetics to clinical applications used in the treatment of both rare and common conditions A newly expanded Part 1 Basic Principles of Human Genetics focuses on introducing the reader to key concepts such as Mendelian principles DNA replication and gene expression Part 2 Genetics and Genomics in Medical Practice uses case scenarios to help you engage with current genetic practice Now featuring full color diagrams Human Genetics and Genomics has been rigorously updated to reflect today s genetics teaching and includes updated discussion of genetic risk assessment single gene disorders and therapeutics Key learning features include Clinical snapshots to help relate science to practice Hot topics boxes that focus on the latest developments in testing assessment and treatment Ethical issues boxes to prompt further thought and discussion on the implications of genetic developments Sources of information boxes to assist with the practicalities of clinical research and information provision Self assessment review questions in each chapter Accompanied by the Wiley E Text digital edition included in the price of the book Human Genetics and Genomics is also fully supported by a suite of online resources at www.korfgenetics.com including Factsheets on 100 genetic disorders ideal for study and exam preparation Interactive Multiple Choice Questions MCQs with feedback on all answers Links to online resources for further study Figures from the book available as PowerPoint slides ideal for teaching purposes The perfect companion to the genetics component of both problem based learning and integrated medical courses Human Genetics and Genomics presents the ideal balance between the bio molecular basis of genetics and clinical cases and provides an invaluable overview for anyone wishing to engage with this fast moving discipline

Respiratory Genetics Edwin Silverman, Scott Weiss, Steven Shapiro, David Lomas, 2005-09-30 There has been a recent explosion of knowledge in the field of respiratory genetics This authoritative text brings together current knowledge in respiratory genetics in a single volume The book includes a comprehensive introductory section to provide guidance and aid understanding of key basic concepts in respiratory genetics including statistical methods sample collection bioinformatics and functional genomics This is followed by a series of disease specific chapters that review epidemiology natural history monogenic determinants complex disease components disease management and likely future developments Respiratory Genetics is an essential reference for pulmonologists translational researchers and clinical geneticists and the text will also be a useful library reference

Hemostasis and Thrombosis, 1976 Cumulated from monthly issues *Biology* Jake Bernstein, 1996 [Literature Search](#) National Library of Medicine (U.S.), 1985 [The Molecular Basis of Human Cancer](#) William B. Coleman, Gregory J. Tsongalis, 2001-08-10 Internationally renowned basic and clinical scientists provide an account of our best current understanding of the genetics of cancer These authoritative contributors describe in detail each of the known molecular

mechanisms governing neoplastic transformation in the breast prostate lung liver colon and skin and in the leukemias and lymphomas Their discussion illuminates both recent developments and established concepts in epidemiology molecular techniques oncogenesis and mutation mechanisms as well as the chemical viral and physical mechanisms in cancer induction

Sarcoidosis Charlotte Kenton, National Library of Medicine (U.S.), 1978 Fibrinolysis, Thrombolysis, and Blood Clotting: a Bibliography, 1974 *Cerebrovascular Bibliography*, 1976 **Annual Report** National Cancer Institute (U.S.). Division of Cancer Etiology, 1987 **Nonhuman Primates in Biomedical Research** Christian R. Abee, Keith Mansfield, Suzette D. Tardif, Timothy Morris, 2012-05-09 The 2e of the gold standard text in the field Nonhuman Primates in Biomedical Research provides a comprehensive up to date review of the use of nonhuman primates in biomedical research The Biology and Management volume provides basic information on the natural biology of nonhuman primates and the current state of knowledge regarding captive management Each chapter contains an extensive list of bibliographic references photographs and graphic illustrations to provide the reader with a thorough review of the subject Now in four color throughout making the book more visually stimulating to enhance learning and ease of use Fully revised and updated providing researchers with the most comprehensive review of the use of nonhuman primates in biomedical research Addresses commonly used nonhuman primate biomedical models providing researchers with species specific information

*Bio*medical Informatics* Isaac S. Kohane, 2002 Journal of the National Cancer Institute, 1987 **Nonhuman Primates in Biomedical Research, Two Volume Set** Christian R. Abee, Keith Mansfield, Suzette D. Tardif, Timothy Morris, 2012-12-31 The 2e of the gold standard text in the field Nonhuman Primates in Biomedical Research provides a comprehensive up to date review of the use of nonhuman primates in biomedical research The publication emphasizes the biology and management diseases and biomedical models for nonhuman primate species most commonly used in research Each chapter contains an extensive list of bibliographic references photographs and graphic illustrations to provide the reader with a thorough review of the subject The Biology and Management volume provides basic information on the natural biology of nonhuman primates and the current state of knowledge regarding captive management The Diseases volume provides thorough reviews of naturally occurring diseases of nonhuman primates with a section on biomedical models reviewing contemporary nonhuman primate models of human diseases Now in four color throughout making the book more visually stimulating to enhance learning and ease of use Fully revised and updated providing researchers with the most comprehensive review of the use of nonhuman primates in biomedical research Addresses commonly used nonhuman primate biomedical models providing researchers with species specific information *Cardiovascular Genetics and Genomics in Clinical Practice* Donna K. Arnett, Sanjiv J. Shah, 2014-11-10 Weighted Numerical Score 100 5 Stars This is a systematic guide to cardiovascular genetics and genomics from basic concepts to clinical application It organizes a large volume of information from an active area of research which holds promise for future discovery Doody s Reviews Cardiovascular

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