

Name :

Period:

Date:

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 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.

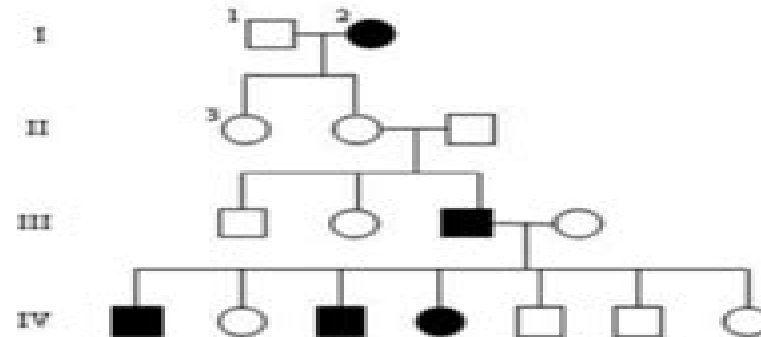
A. Interpreting a human pedigree.

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 first couple have? _____

b. How many children did the third couple 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? _____

A Interpreting A Human Pedigree 30 Points

Daniel Callcut



A Interpreting A Human Pedigree 30 Points:

The Human Pedigree Anthony Smith, 1975 *Human Molecular Genetics* Tom Strachan, Andrew Read, 2018-03-29

Human Molecular Genetics is an established and class proven textbook for upper level undergraduates and graduate students which provides an authoritative and integrated approach to the molecular aspects of human genetics While maintaining the hallmark features of previous editions the Fourth Edition has been completely updated It includes new Key Concepts at the beginning of each chapter and annotated further reading at the conclusion of each chapter to help readers navigate the wealth of information in this subject The text has been restructured so genomic technologies are integrated throughout and next generation sequencing is included Genetic testing screening approaches to therapy personalized medicine and disease models have been brought together in one section Coverage of cell biology including stem cells and cell therapy studying gene function and structure comparative genomics model organisms noncoding RNAs and their functions and epigenetics have all been expanded

Research Methods in Human Rights Bård A. Andreassen, Hans-Otto Sano, Siobhán McInerney-Lankford, 2017-05-26 Methodological discussion has largely been neglected in human rights research with legal scholars in particular tending to address research methods and methodological reflection implicitly rather than explicitly This book advances thinking on human rights methodology offering instruction and guidance on the methodological options for human rights research

History of Human Genetics Heike I. Petermann, Peter S. Harper, Susanne Doetz, 2017-05-10 Written by 30 authors from all over the world this book provides a unique overview of exciting discoveries and surprising developments in human genetics over the last 50 years The individual contributions based on seven international workshops on the history of human genetics cover a diverse range of topics including the early years of the discipline gene mapping and diagnostics Further they discuss the status quo of human genetics in different countries and highlight the value of genetic counseling as an important subfield of medical genetics

Handbook on Analyzing Human Genetic Data Shili Lin, Hongyu Zhao, 2009-10-13 The discipline of statistical genetics is highly computational Be it exact computational methods simulation based or a hybrid of the two computational packages are indispensable tools and constant companions of researchers in the field This handbook is intended to provide human geneticists and other biomedical researchers with guidance on selections of appropriate computational methods and software packages for their specific genetic problems It may also be used by students and other learners as a reference in conjunction with a more theoretical and or methodologically oriented text book This book tries to strike a balance between methodological expositions and practical guidelines for software selections Wherever possible comparisons among the competing methods and software are made to highlight the relative advantages and disadvantages of the approaches so that the reader can make informed choices to best match their specific needs Human genetics has been undergoing an evolution in the past several years as new knowledge and technologies are transforming the field leading to numerous new discoveries of genes associated with complex traits such as cancer obesity and

diabetes Many recent genome wide association studies employ the case control design where the study subjects consist of unrelated affected individuals and n mal controls For each individual a large number of genetic markers are queried

Explorations in the Interpretation of Samuel Rachelle Lynda Gilmour,Benjamin Johnson,2024-12-16 The volume consists of 21 essays from an international group of scholars The volume is broken into two parts Reading Samuel with the Hebrew Bible and beyond the Hebrew Bible Each section will offer readings of portions of the Book of Samuel that engage with other texts The chapters are arranged in the order of the narrative sequence of Samuel to highlight the way reading with other texts can inform a reading of the Book of Samuel

Reading Bernard Williams Daniel Callcut,2009 When Bernard Williams died in 2003 the Times newspaper hailed him as the greatest moral philosopher of his generation This collection of essays on Williams work is essential reading for anyone interested in Williams ethics and moral philosophy and philosophy in general

Forensic Laboratory Management W. Mark Dale,Wendy S. Becker,2014-09-26 New technologies including DNA and digital databases that can compare known and questioned exemplars have transformed forensic science and greatly impacted the investigative process They have also made the work more complicated Obtaining proper resources to provide quality and timely forensic services is frequently a challenge for forensic managers who are often promoted from casework duties and must now learn a whole new set of leadership skills The interdisciplinary and scientific nature of laboratories requires strong leadership ability to manage complex issues often in adversarial settings *Forensic Laboratory Management Applying Business Principles* provides laboratory managers with business tools that apply the best science to the best evidence in a manner that increases the efficiency and effectiveness of their management decision making The authors present a performance model with seven recommendations to implement illustrating how forensic managers can serve as leaders and strategically improve the operation and management in scientific laboratories Topics include Key business metrics and cost benefit analyses Ethical lapses why they occur possible motives and how problems can be prevented Forensic training education and institutes ISO IEC 17025 accreditation implementation The book includes case studies simulating a working laboratory in which readers can apply business tools with actual data reinforcing discussion concepts Each chapter also includes a brief review of current literature of the best management theories and practice The downloadable resources supply two mock trial transcripts and associated case files along with PowerPoint slides from Dr George Carmody s workshop on Forensic DNA Statistics and Dr Doug Lucas s presentation on ethics

The Music between Us Kathleen Marie Higgins,2020-03-04 Higgins love of music and cultural variety is evident throughout She writes in a relaxed accessible sophisticated style Highly recommended Choice From our first social bonding as infants to the funeral rites that mark our passing music plays an important role in our lives bringing us closer to one another In this book philosopher Kathleen Marie Higgins investigates this role examining the features of human perception that enable music s uncanny ability to provoke despite its myriad forms across continents and throughout centuries the sense of a shared human experience Drawing on

disciplines such as philosophy psychology musicology linguistics and anthropology Higgins s richly researched study showcases the ways music is used in rituals education work and healing and as a source of security and perhaps most importantly joy By participating so integrally in such meaningful facets of society Higgins argues music situates itself as one of the most fundamental bridges between people a truly cross cultural form of communication that can create solidarity across political divides Moving beyond the well worn takes on music s universality The Music between Us provides a new understanding of what it means to be musical and in turn human Those who like Higgins deeply love music actually know something about it have open minds and ears and are willing to look beyond the confines of Western aesthetics will find much to learn in The Music between Us Journal of Aesthetics and Art Criticism

Monogenic Diabetes: from Genetics and Cell Biology to Clinical Practice Ming Liu,Jiajun Zhao,Fabrizio Barbetti,Simone Baltrusch,2022-10-11

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