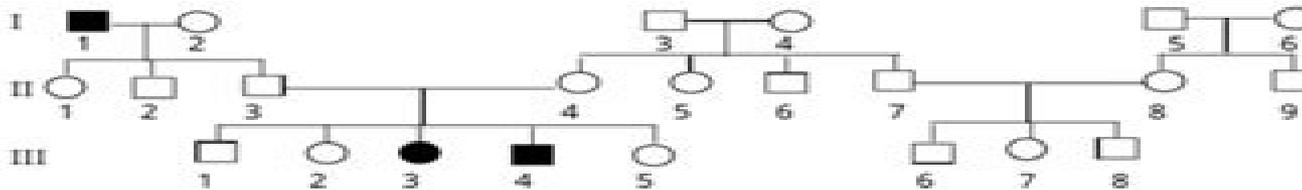


Pedigree Worksheet **KEY**
 Genetics Pedigree Worksheet

A pedigree is a chart of a person's ancestors that is used to analyze genetic inheritance of certain traits - especially diseases. The symbols used for a pedigree are:



- Siblings are placed in birth order from left to right and are labeled with numbers.
- Each generation is labeled with a Roman numeral.
 - Example: we would name an individual II-3 if he/she was in the second generation and the 3rd child born



Try to identify the genotypes of the following individuals using the pedigree above.
 (homozygous dominant, homozygous recessive, heterozygous)

- III-3: Homozygous recessive
- II-1: Heterozygous
- I-1: Homozygous recessive
- II-4: Heterozygous

1. Is this trait dominant or recessive? Explain your answer.

It is a recessive trait because generation II does not have the disease and Generations I and III do have it.

2. How can you know for sure that individuals II-3 and II-4 are heterozygous?

Because their offspring have the disease so they are both carriers of it.

3. Brown eyes are a dominant eye-color allele and blue eyes are recessive. A brown-eyed woman whose father had blue eyes and whose mother had brown eyes marries a brown-eyed man whose parents are also brown-eyed. They have a son who is blue-eyed. Please draw a pedigree showing all four grandparents, the two parents, and the son. Indicate which individuals you are certain of their genotype and where there are more than one possibilities.

Genetics Wkst Answers Pedigree Charts

Jiyuan Zhang



Genetics Wkst Answers Pedigree Charts:

CK-12 Biology Teacher's Edition CK-12 Foundation,2012-04-11 CK 12 Biology Teacher s Edition complements the CK 12 Biology Student Edition FlexBook *Laboratory Manual of Genetics* A. M. Winchester,Peter J. Wejksnora,1995-12 Give your students the opportunity to apply the scientific method to real not simulated lab investigations in both classical and molecular genetics It is appropriate for a range of genetics and molecular biology laboratory courses because it incorporates material spanning the areas of basic genetics molecular genetics and human genetics Since the first edition *Laboratory Manual of Genetics* has been carefully constructed to be student oriented Family Tree Factbook Diane Haddad,Family Tree Editors,2018-10-23 Discover your roots The answers to all your genealogy questions in one place This convenient timesaving collection of genealogy hacks gathers the best resources tips lists and need to know facts from the experts at Family Tree Magazine Inside you ll find fast facts about a variety of family history topics such as important dates in US history the different kinds of DNA tests and how to use the best genealogy websites Inside you ll find Key genealogy lists and statistics common genealogy abbreviations and acronyms a glossary of genetic genealogy terms genealogy pitfalls to avoid and more Strategies for tracking your ancestors in important documents including census records passenger lists and military records and performing important genealogical tasks such as searching Ancestry com A size perfect for carrying with you wherever your research may lead *The Genealogical Helper* ,1988 **Inquiring Scientists, Inquiring Readers in Middle School** Terry Shiverdecker,Jessica Fries-Gaither,2016-11-30 Great news for multitasking middle school teachers Science educators Terry Shiverdecker and Jessica Fries Gaither can help you blend inquiry based science and literacy instruction to support student learning and maximize your time Several unique features make *Inquiring Scientists Inquiring Readers in Middle School* a valuable resource Lessons integrate all aspects of literacy reading writing speaking listening and viewing The texts are relevant nonfiction including trade books newspaper and magazine articles online material infographics and even videos A learning cycle framework helps students deepen their understanding with data collection and analysis before reading about a concept Ten investigations support current standards and encompass life physical and Earth and space sciences Units range from Chemistry Toys and Accidental Inventions to Thermal Energy An Ice Cube s Kryptonite The authors have made sure the book is teacher friendly Each unit comes with scientific background a list of common misconceptions an annotated text list safety considerations differentiation strategies reproducible student pages and assessments This middle school resource is a follow up to the authors award winning *Inquiring Scientists Inquiring Readers for grades 3 5* which one reviewer called very thorough and any science teacher s dream to read The book will change the way you think about engaging your students in science and literacy *Family Records Today* ,1995 **Explore Life** John H. Postlethwait,Janet L. Hopson,2003-08 Using a variety of exercise formats traditional guided inquiry and design your own this manual written by Doreen Schroeder helps students ask good questions and think critically Students will

analyze data draw conclusions and present those conclusions They will also be challenged to make connections between lab exercises between lecture and lab and between biology in the laboratory or lecture hall and their own life Each exercise in the student manual contains an overview an introduction a materials list the methods and application questions Where appropriate time has been built into the exercises for discussion and interactions between students and between students and instructors The exercises are also adaptable to different situations and time frames The instructor s manual gives suggestions for adapting the exercises in addition to a complete supplies list including some sources sample lab format and suggested answers for questions and or worksheets To see the first two chapters of this great new lab manual visit http://www.brookscole.com/cgi/brookscole/course_products_bc.pl?fid=M20bI;product_isbn_issn=0030225582;discipline_number=22 Select Laboratory Experiments under Book Resources on the left hand navigation bar at the Instructor site

Science Insights, 1999 **Glencoe Science**, 2002 **Addison-Wesley Science Insights**, 1996 **Pedigree Analysis in Human Genetics** Elizabeth Alison Thompson, 1986 **Theoretical Aspects of Pedigree Analysis** Emil Ginsburg, Ida Malkin, Robert C. Elston, 2006 **Words on Cassette**, 1992 *Pedigree Analysis in Human Genetics* Elizabeth A. Thompson, 1986-01-01

Statistical Inference from Genetic Data on Pedigrees Elizabeth Alison Thompson, 2000 Annotation While this monograph is not about show dogs or cats its statistical methods could be applied to tracing the pedigree of these species as well as humans Thompson U of Washington covers such topics as genetic models population allele frequencies kinship inbreeding coefficients and Monte Carlo estimation Includes supporting tables and figures Suitable as a supplementary text or primary text for advanced students Lacks an index c Book News Inc **Pedigree Analysis in R** Magnus Dehli Vigeland, 2021-05-06 Pedigree Analysis in R gives an introduction to the theory of relatedness and covers a range of applications in forensic and medical genetics The book s material was developed through teaching courses on genetic relatedness pedigree analysis and R and offers insights from a decade of research activities in forensic and medical genetics The R code in the book uses the ped suite a unified collection of packages for pedigree analysis developed by the author All code examples are given in full allowing accurate reproduction of figures and results At the end of each chapter a selection of exercises encourages the reader to explore further and perform their own analyses Introduction to the theory of genetic relatedness richly illustrated with classic and novel examples In depth case studies including kinship testing pedigree reconstruction linkage analysis and clinical segregation analysis Easy to follow R code with explanations Based on the ped suite packages for pedigree analysis in R Suitable for R users at all levels including complete beginners Exercises after each chapter *The Practical Guide to the Genetic Family History* Robin L. Bennett, 2004-03-24 The Practical Guide to The Genetic Family History Robin L Bennett Compiling the most recent genetic developments in medical specialties The Practical Guide to the Genetic Family History is a valuable resource which outlines the proper methods for taking and recording a patient s family medical history allowing primary care physicians to be more efficient in diagnosing conditions with potential

genetic components With genetic screening forms an overview of directed questions pedigree nomenclature and outlining common approaches used genetic counselor Robin L Bennett provides readers with the basic foundation in human genetics necessary to recognize inherited disorders and familial disease susceptibility in patients As the only guide which is geared for the physician in this field The Practical Guide to the Genetic Family History includes remarks by renowned medical geneticist Arno Motulsky as well as information on structuring an accurate pedigree and its components including Using a pedigree to identify individuals with an increased susceptibility to cancer Family history adoption and their challenges The connection between the pedigree and assisted reproductive technologies Making referrals for genetic services Neurological and neuromuscular conditions Tables covering hearing loss mental retardation dementia and seizures Five case studies of genetics in practice An essential reference for genetics clinics medical geneticists and counselors The Practical Guide to the Genetic Family History is also an invaluable aid for both primary care and specialist physicians who need an up to date reference that emphasizes both the science and art of modern clinical genetics **The Human Pedigree** Anthony

Smith,1975 **Trace Your Roots with DNA** Megan Smolenyak Smolenyak,Ann Turner,2004-10-07 Written by two of the country's top genealogists this is the first book to explain how new and groundbreaking genetic testing can help you research your ancestry According to American Demographics 113 million Americans have begun to trace their roots making genealogy the second most popular hobby in the country after gardening Enthusiasts clamor for new information from dozens of subscription based websites email newsletters and magazines devoted to the subject For these eager roots seekers looking to take their searches to the next level DNA testing is the answer After a brief introduction to genealogy and genetics fundamentals the authors explain the types of available testing what kind of information the tests can provide how to interpret the results and how the tests work it doesn't involve digging up your dead relatives It's expensive easy to do and the results are accurate It's as simple as swabbing the inside of your cheek and popping a sample in the mail Family lore has it that a branch of our family emigrated to Argentina and now I've found some people there with our name Can testing tell us whether we're from the same family My mother was adopted and doesn't know her ethnicity Are there any tests available to help her learn about her heritage I just discovered someone else with my highly unusual surname How can we find out if we have a common ancestor These are just a few of the types of genealogical scenarios readers can pursue The authors reveal exactly what is possible and what is not possible with genetic testing They include case studies of both famous historical mysteries and examples of ordinary folks whose exploration of genetic genealogy has enabled them to trace their roots

Genealogical Genetic Structure C. Cannings,1981-11-26 Although the long term processes of evolution are selection and mutation the infrastructure of a population is a no less important force in determining the distributions of genetic characteristics observable within populations In small populations and in particular in human populations complex patterns of genealogical relationship between individuals can be an important factor in the maintenance of genetic variability The aim

of this book is to develop the quantitative theory of the interrelationship between the genealogical and the genetic structures of a population. Aspects of other structural features such as migration patterns are also discussed but are not central to the development. There are three major aspects, each comprising two chapters of the text. First, genealogical relationships are characterized in a way which can illuminate their genetic consequences. Second, the evolutionary aspects of genealogical structure are developed. Finally, the last two chapters present methods of characterizing the complete structure of a genealogy and of computing relevant parameters of genealogical structure. These topics are of relevance to genetic epidemiology as well as to population genetics.

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