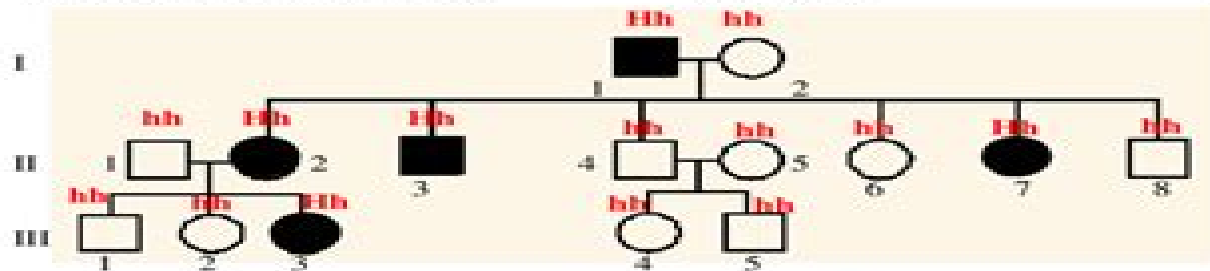


PEDIGREE ANALYSIS

Name _____



● ■ = Huntington's Disease

1. How many **children** did individuals I-1 and I-2 have? 6 How many **HAVE** Huntington's Disease? 3
2. How many **daughters** did II-1 and II-2 have? 2 How many **sons**? 1
3. How are individuals III-2 and II-4 related? Uncle/Niece I-2 and III-5? Grandmother/Grandson
4. There are no carriers for Huntington's Disease- you either have it or you don't.
With this in mind, is Huntington's disease caused by a dominant or recessive trait? Dominant
5. Write the **genotypes** over all known individuals. Represent unknowns with question marks.

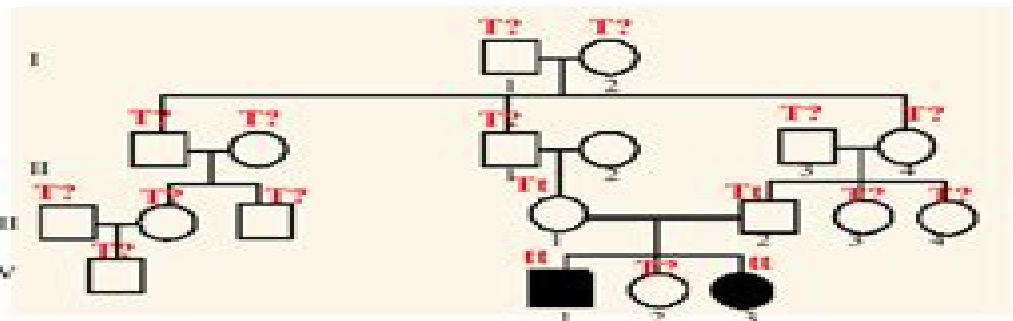
6. The pedigree to the right shows a family's pedigree for **Hitchhiker's Thumb**. Is this trait dominant or recessive? recessive

7. **How do you know?** If it was dominant, either Parent III-1 or III-2 would have the trait

8. Therefore, write the **genotypes** of above the individuals with Hitchhiker's Thumbs (use T / t).

9. How are individuals III-1 and III-2 related? cousins AND married

10. Write the **genotypes** above individuals III-1 and III-2.



11. Is it possible for individual IV-2 to be a carrier? yes Why or why not? parents are heterozygous

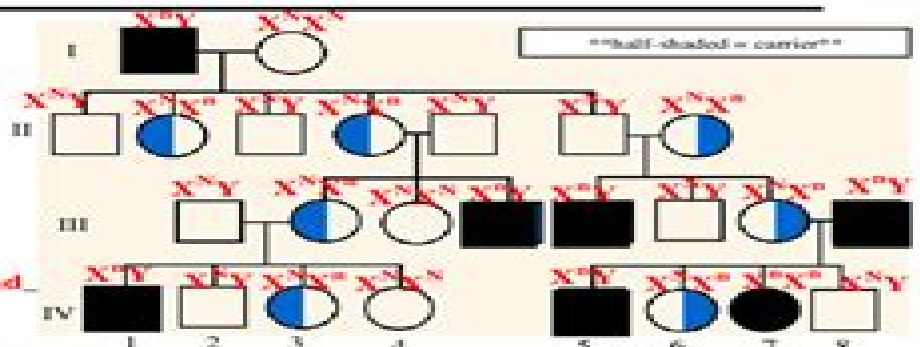
12. The pedigree to the right shows a family's pedigree for **colorblindness**. Which sex can be **carriers** of colorblindness and not have it? females

13. With this in mind, what kind of trait is colorblindness (use your notes)? Sex linked and recessive

14. Write the **genotypes** above all individuals.

15. Why do **all daughters** in generation II carry the colorblind gene? they received a colorblind allele from dad

16. If individual IV-7 had children, what percentage of her **sons** would you expect to be colorblind? 100%



Human Inheritance And Pedigree Analysis Lab Answers

M Woodhall



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Solutions Manual for An Introduction to Genetic Analysis David Scott, 2012 Since its inception Introduction to Genetic Analysis IGA has been known for its prominent authorship including leading scientists in their field who are great educators This market best seller exposes students to the landmark experiments in genetics teaching students how to analyze experimental data and how to draw their own conclusions based on scientific thinking while teaching students how to think like geneticists Visit the preview site at www.whfreeman.com/IGA10epreview

Practical Management of Pediatric Ocular Disorders and Strabismus Elias Traboulsi, Virginia Utz, 2016-07-27 This case based approach to the management of pediatric eye diseases and strabismus teaches the novice as well as the experienced surgeon how to conceptualize and analyze surgical planning to maximize patient outcomes allowing readers to get inside the head of the surgeon Individual cases with clear instructions and an abundance of color illustrations presented by experts in the field teach critical information one case at a time Practical Management of Pediatric Ocular Disorders and Strabismus provides the key guiding principles of a traditional textbook in an easy to digest format Each chapter of the text tackles a common or rare clinical situation and begins with the description of an illustrative case The chapters are structured with sections on case description differential diagnosis management and outcomes with a list of possible complications and the approach to their management

Principles and Practice in Ophthalmic Assisting Janice K. Ledford, Al Lens, 2024-06-01 Time is an incredibly valuable resource for ophthalmic and para optometric personnel whether they are still studying on their way to certification or they are already in the trenches in daily practice To keep up they need a single cohesive text containing everything they need to learn Principles and Practice in Ophthalmic Assisting A Comprehensive Textbook meets that need covering all subject areas in detail while also maintaining a readable user friendly style Editors Janice Ledford and Al Lens have gathered a prestigious team of over 40 contributors all of them ophthalmic and optometric medical personnel who actively perform the tasks they write about Their time tested expertise is like having a group of specialists right by your side to show how it's done and answer questions From A scan to zygoma Principles and Practice in Ophthalmic Assisting A Comprehensive Textbook includes everything ophthalmic and para optometric personnel need to know to effectively perform their duties assist their patients and advance their careers Each chapter is written in a friendly manner and follows an established framework making it easy to digest any new information or as a quick reference to the material needed Chapters also include valuable tricks of the trade that could only come from authors with intimate knowledge of their topics Topics covered General ophthalmic knowledge Ophthalmic skills Optical skills Ophthalmic medical sciences Surgical services and skills Administrative skills Whether perfecting current skills learning new ones or studying for exams Principles and Practice in Ophthalmic Assisting A Comprehensive Textbook makes both a perfect learning tool for students and a complete reference tool for staff whether they are new to the eyecare industry or have years of experience

Genetics Daniel Hartl, Maryellen

Ruvolo,2012 This textbook gives an introduction to genetics and genomics at the college level It contains a chapter on human genetic evolution Other chapters treat transmission genetics molecular genetics and evolutionary genetics and provide an understanding of the basic process of gene transmission mutation expression and regulation *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

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Breathe new life into science learning with this powerful guidebook written by master educators **Handbook of Laboratory Animal Science, Volume III, Third Edition** Jann Hau, Steven J. Schapiro, 2013-12-26 While replacing and reducing the use of laboratory animals are integral parts of the 3Rs replace reduce refine which form the cornerstones of laboratory animal science biomedical research involving animals remains absolutely essential for the advancement of the medical veterinary agricultural and biological sciences Building upon the bestselling previous edition the Handbook of Laboratory Animal Science Volume III Third Edition Animal Models complements volumes I and II of the third edition by completing the task of providing a comprehensive overview of animal models in all biomedical disciplines The three Rs have been integrated throughout this handbook to promote efficient and humane experimental work with animals Written by international experts each chapter focuses on an important subdiscipline of laboratory animal science and can be used as a stand alone text This volume contains new chapters for six additional disease animal models spinal cord injury cardiovascular diseases sudden infant death syndrome developmental disorders eye diseases and human cancer It also presents a new chapter on applying reduction and refinement to animal models This handbook can be used for undergraduate and postgraduate laboratory animal science courses and as a handbook for scientists who work with animals in their research for university veterinarians for regulators and for other specialists in laboratory animal science

The Practices of Human Genetics Michael Fortun, E. Mendelsohn, 2012-12-06 That concern about human genetics is at the top of many lists of issues requiring intense discussion from scientific political social and ethical points of view is today no surprise It was in the spirit of attempting to establish the basis for intelligent discussion of the issues involved that a group of us gathered at a meeting of the International Society for the History Philosophy and Social Studies of Biology in the Summer of 1995 at Brandeis University and began an exploration of these questions in earlier versions of the papers presented here Our aim was to cross disciplines and jump national boundaries to be catholic in the methods and approaches taken and to bring before readers interested in the emerging issues of human genetics well reasoned informative and provocative papers The initial conference and elements of the editorial work which have followed were generously supported by the Stifterverband für die Deutsche Wissenschaft We thank Professor Peter Weingart of Bielefeld University for his assistance in gaining this support As Editors we thank the anonymous readers who commented upon and critiqued many of the papers and in turn made each paper a more valuable contribution We also thank the authors for their understanding and patience Michael Fortun, E. Mendelsohn Cambridge MA September 1998 vii

INTRODUCTION In 1986 the annual symposium at the venerable Cold Spring Harbor laboratories was devoted to the Molecular Biology of Homo sapiens

Practical Aspects of Cardiovascular Genetic Counseling Despina Sanoudou, Ana Morales, Jessica Goehringer, 2025-10-15 Cardiovascular genetic counseling is a rapidly advancing specialty With advancements in genomic technologies an increased understanding of disease mechanisms and the benefits of genetic counseling for cardiovascular conditions numerous opportunities exist to

enhance patient care This book covers current recommendations for a cardiovascular genetic evaluation patient selection criteria types of genetic tests patient education and counseling processes Post test considerations are also offered including variant interpretation and communication strategies Special focus is given to risk assessment for family members and psychosocial implications Designed as an introductory guide for healthcare professionals this book presents a genetic counseling approach to translating insights from cardiovascular genetics into practical applications

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