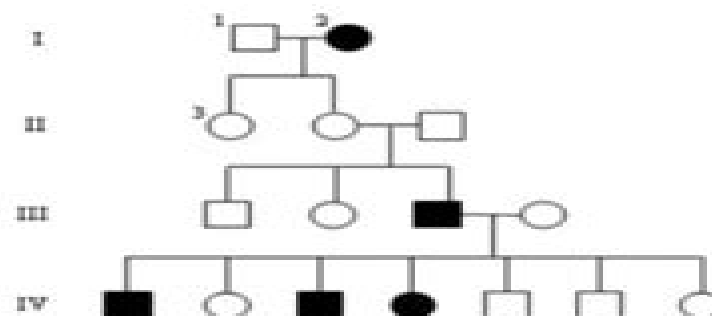


## Pedigree Worksheet

KEY KEY KEY KEY KEY KEY

### Interpreting a Human Pedigree

Use the pedigree below to answer 1-5



1. 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? **8**
- How many males have hemophilia? **3**

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

- How many female are there? **8**
- How many females have hemophilia? **2**

3. A marriage is indicated by a horizontal line connecting a circle to a square.

- How many marriages are there? **3**

4. 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.

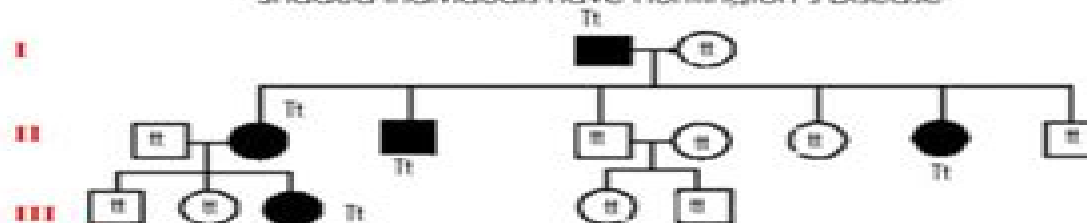
- How many children did the first couple (couple in row I) have? **2**
- How many children did the third couple (couple in row III) have? **7**

5. Level I represent the first generation, level II represents the second generation.

- How many generations are there? **4**
- How many members are there in the fourth generation? **7**

Use the pedigree below to answer 6-12

Shaded individuals have Huntington's Disease



Individuals are numbered for each generation right to left...they are denoted with their generation and their number. See #7 for example.

6. Write the generation on the pedigree numbers (roman numerals).

7. Which members of the family above are afflicted with Huntington's Disease? **I-1, II-2, II-3, II-7, III-3**

8. 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**

9. How many children did individuals I-1 and I-2 have? **6**

# Human Genetics And Pedigrees Study Answers

**Padhraic Smyth**



## Human Genetics And Pedigrees Study Answers:

**Models and Methods for the Genetic Analysis of Pedigree Data** J. Ott, 1993-03-29      **Biomedical Index to PHS-supported Research**, 1990      *Handbook on Analyzing Human Genetic Data* Shili Lin, Hongyu Zhao, 2009-10-13 This handbook offers guidance on selections of appropriate computational methods and software packages for specific genetic problems Coverage strikes a balance between methodological expositions and practical guidelines for software selections Wherever possible comparisons among competing methods and software are made to highlight the relative advantages and disadvantage of the approaches      *Biolinguistics at the Cutting Edge* Antonio Benítez-Burraco, Isabel Fernández López, Milagros Fernández-Pérez, Olga Ivanova, 2025-03-31 This book contains an updated discussion of the most relevant theoretical and methodological aspects as well as the most important findings of biolinguistics This field of linguistics is specifically concerned with the biological aspects of language In doing so the volume takes a timely look at the different angles of biolinguistics research in particular considering its multidisciplinary technical theoretical and applied approaches The volume provides a comprehensive in depth and state of the art overview of the biolinguistics quest bringing together the most outstanding contributions on exciting subfields such as language evolution language acquisition neuro and psycholinguistics or clinical linguistics      *The Oxford Textbook of Clinical Research Ethics* Ezekiel J. Emanuel, Christine C. Grady, Robert A. Crouch, Reidar K. Lie, Franklin G. Miller, David D. Wendler, 2011-02 The Oxford Textbook of Clinical Research Ethics is the first comprehensive and systematic reference on clinical research ethics Under the editorship of experts from the U S National Institutes of Health of the United States the book s 73 chapters offer a wide ranging and systematic examination of all aspects of research with human beings Considering the historical triumphs of research as well as its tragedies the textbook provides a framework for analyzing the ethical aspects of research studies with human beings Through both conceptual analysis and systematic reviews of empirical data the contributors examine issues ranging from scientific validity fair subject selection risk benefit ratio independent review and informed consent to focused consideration of international research ethics conflicts of interests and other aspects of responsible conduct of research The editors of The Oxford Textbook of Clinical Research Ethics offer a work that critically assesses and advances scholarship in the field of human subjects research Comprehensive in scope and depth this book will be a crucial resource for researchers in the medical sciences as well as teachers and students      *Essential Genetics* Daniel L. Hartl, Elizabeth W. Jones, 2006 Completely updated to reflect new discoveries and current thinking in the field the Fourth Edition of Essential Genetics is designed for the shorter less comprehensive introductory course in genetics The text is written in a clear lively and concise manner and includes many special features that make the book user friendly Topics were carefully chosen to provide a solid foundation for understanding the basic processes of gene transmission mutation expression and regulation The text also helps students develop skills in problem solving achieve a sense of the social and historical context in which genetics has developed and

become aware of the genetic resources and information available through the Internet

**Eugenics, Human Genetics and Human Failings** Pauline Mazumdar, 2005-12-20 This scholarly and penetrating study of eugenics is a major contribution to our understanding of the complex relation between science ideology and class

*Bioinformatics Research and Applications* Leonidas Bleris, Ion Mandoiu, Russell Schwartz, Jianxin Wang, 2012-05-10 This book constitutes the refereed proceedings of the International Symposium on Bioinformatics Research and Applications ISBRA 2012 held in Dallas Texas USA in May 2012 The 26 revised full papers presented together with five invited talks were carefully reviewed and selected from 66 submissions The papers address issues on various aspects of bioinformatics and computational biology and their applications

Genetics Daniel L. Hartl, 2011-08-05 Thoroughly revised and updated with the latest data from this every changing field the Eighth Edition of *Genetics Analysis of Genes and Genomes* provides a clear balanced and comprehensive introduction to genetics and genomics at the college level Expanding upon the key elements that have made this text a success Hartl has included updates throughout as well as a new chapter dedicated to genetic evolution He continues to treat transmission genetics molecular genetics and evolutionary genetics as fully integrated subjects and provide students with an unprecedented understanding of the basic process of gene transmission mutation expression and regulation New chapter openers include a new section highlighting scientific competencies while end of chapter Guide to Problem Solving sections demonstrate the concepts needed to efficiently solve problems and understand the reasoning behind the correct answer

**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

*Handbook of Neuroscience for the Behavioral Sciences, Volume 2* Gary G. Berntson, John T. Cacioppo, 2009-10-12 As technology has made imaging of the brain noninvasive and inexpensive nearly every psychologist in every subfield is using pictures of the brain to show biological connections to feelings and behavior *Handbook of Neuroscience for the Behavioral Sciences Volume II* provides psychologists and other behavioral scientists with a solid foundation in the increasingly critical field of neuroscience Current and accessible this volume provides the information they need to understand the new biological bases research tools and implications of brain and gene research as it relates to psychology

*Cell Biology and Genetics*, Journal of the National Cancer Institute, 1983-10

*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      **Pedigree Analysis in Human Genetics** Elizabeth Alison Thompson,1986      **Research Awards Index** ,1983

Rare Diseases: New Insights for the Healthcare Professional: 2013 Edition ,2013-07-22 Rare Diseases New Insights for the Healthcare Professional 2013 Edition is a ScholarlyPaper that delivers timely authoritative and intensively focused information about Additional Research in a compact format The editors have built Rare Diseases New Insights for the Healthcare Professional 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Additional Research in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Rare Diseases New Insights for the Healthcare Professional 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>      Biostatistical Genetics and Genetic Epidemiology Robert C. Elston,Jane M.

Olson,Lyle Palmer,2002-04-22 Human Genetics concerns the study of genetic forces in man By studying our genetic make up we are able to understand more about our heritage and evolution Some of the original and most significant research in genetics centred around the study of the genetics of complex diseases genetic epidemiology This is the third in a highly successful series of books based on articles from the Encyclopedia of Biostatistics This volume will be a timely and comprehensive reference for a subject that has seen a recent explosion of interest following the completion of the first draft of the Human Genome Mapping Project The editors have updated the articles from the Human Genetics section of the EoB have adapted other articles to give them a genetic feel and have included a number of newly commissioned articles to ensure the work is comprehensive and provides a self contained reference      **German Medical Data Sciences: A Learning**

**Healthcare System** U. Hübner,U. Sax,H.-U. Prokosch,2018-09-06 Advances in digital and information technology have meant that medical informatics and its associated fields are of ever increasing importance in the modern healthcare environment This book presents selected papers from the 63rd annual conference of the German Society of Medical Information Sciences Biometry and Epidemiology GMDS 2018 held in Osnabrück Germany in September 2018 The society encompasses not only medical informatics biometry and epidemiology but also medical bioinformatics systems biology and health data management The title of this year s conference is The Learning Health System Research Based Innovative Connecting and 38 full papers of the 164 oral presentations and 65 posters delivered at the conference are included here A wide variety of scientific topics are covered including standards to enable the interoperable interchange of information metadata management record linkage IT issues for health care networks interprofessional teaching and training eHealth legislation analysis of miRNAs and RNA Seq data among others The contributors are all specialists in their field and this book disseminates some of the innovative ideas which are urgently needed to meet the challenges facing a constantly developing

digital healthcare environment

**Schizophrenia Bulletin** ,1989

## Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **Human Genetics And Pedigrees Study Answers**

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