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Statistical Genetics

Nan M. Laird, Christoph Lange



Statistical Genetics:

Handbook of Statistical Genetics David J. Balding, Martin Bishop, Chris Cannings, 2008-06-10 The Handbook for Statistical Genetics is widely regarded as the reference work in the field. However, the field has developed considerably over the past three years. In particular, the modeling of genetic networks has advanced considerably via the evolution of microarray analysis. As a consequence, the 3rd edition of the handbook contains a much expanded section on Network Modeling, including 5 new chapters covering metabolic networks, graphical modeling and inference, and simulation of pedigrees and genealogies. Other chapters new to the 3rd edition include Human Population Genetics, Genome-wide Association Studies, Family-based Association Studies, Pharmacogenetics, Epigenetics, Ethics, and Insurance. As with the second Edition, the Handbook includes a glossary of terms, acronyms, and abbreviations, and features extensive cross-referencing between the chapters, tying the different areas together. With heavy use of up-to-date examples, real-life case studies, and references to web-based resources, this continues to be a must-have reference in a vital area of research. Edited by the leading international authorities in the field: David Balding, Department of Epidemiology, Public Health, Imperial College; An advisor for our Probability Statistics series; Professor Balding is also a previous Wiley author, having written *Weight of Evidence for Forensic DNA Profiles*, as well as having edited the two previous editions of HSG. With over 20 years teaching experience, he has also had dozens of articles published in numerous international journals. Martin Bishop, Head of the Bioinformatics Division at the HGMP Resource Centre, as well as the first two editions of HSG. Dr. Bishop has edited a number of introductory books on the application of informatics to molecular biology and genetics. He is the Associate Editor of the journal *Bioinformatics* and Managing Editor of *Briefings in Bioinformatics*. Chris Cannings, Division of Genomic Medicine, University of Sheffield. With over 40 years teaching in the area, Professor Cannings has published over 100 papers and is on the editorial board of many related journals. Co-editor of the two previous editions of HSG, he also authored a book on this topic.

Statistical Genetics Benjamin Neale, Manuel Ferreira, Sarah Medland, Danielle Posthuma, 2007-11-30 *Statistical Genetics* is an advanced textbook focusing on conducting genome-wide linkage and association analysis in order to identify the genes responsible for complex behaviors and diseases. Starting with an introductory section on statistics and quantitative genetics, it covers both established and new methodologies, providing the genetic and statistical theory on which they are based. Each chapter is written by leading researchers who give the reader the benefit of their experience with worked examples, study design, and sources of error. The text can be used in conjunction with an associated website www.genemapping.org that provides supplementary material and links to downloadable software.

Handbook of Statistical Genomics David J. Balding, Ida Moltke, John Marioni, 2019-07-02 A timely update of a highly popular handbook on statistical genomics. This new two-volume edition of a classic text provides a thorough introduction to statistical genomics, a vital resource for advanced graduate students, early career researchers, and new entrants to the field. It introduces new and updated information on developments that have occurred since the 3rd

edition Widely regarded as the reference work in the field it features new chapters focusing on statistical aspects of data generated by new sequencing technologies including sequence based functional assays It expands on previous coverage of the many processes between genotype and phenotype including gene expression and epigenetics as well as metabolomics It also examines population genetics and evolutionary models and inference with new chapters on the multi species coalescent admixture and ancient DNA as well as genetic association studies including causal analyses and variant interpretation The Handbook of Statistical Genomics focuses on explaining the main ideas analysis methods and algorithms citing key recent and historic literature for further details and references It also includes a glossary of terms acronyms and abbreviations and features extensive cross referencing between chapters tying the different areas together With heavy use of up to date examples and references to web based resources this continues to be a must have reference in a vital area of research Provides much needed timely coverage of new developments in this expanding area of study Numerous brand new chapters for example covering bacterial genomics microbiome and metagenomics Detailed coverage of application areas with chapters on plant breeding conservation and forensic genetics Extensive coverage of human genetic epidemiology including ethical aspects Edited by one of the leading experts in the field along with rising stars as his co editors Chapter authors are world renowned experts in the field and newly emerging leaders The Handbook of Statistical Genomics is an excellent introductory text for advanced graduate students and early career researchers involved in statistical genetics

Statistical Genetics

Prem Narain (Prof.), 1990 This Book Describes The Methodology Of A Field Of Biology That Weds Statistics And Genetics And Goes By The Name Of Statistical Genetics The Relevant Principles Of Genetics Statistics And Breeding Are Discussed Together At One Place The Emphasis Is On The Important Applications Of The Statisticogenetic Principles To The Plant And Animal Breeding Problems It Has Been Written For The Benefit Of Post Graduate Students Majoring In The Fields Of Either Genetics And Breeding Or Statistics Applied To Agriculture Also Since Advanced Researches In This Field Which Have Taken Place Over The Years Are Scattered In Various Journals This Book Is Equally Addressed To Researchers In The Fields Of Statistics Genetics And Breeding The Book Is Unique In Several Respects And Sets Itself Apart When Compared With Other Published Books On The Subject The Basic Elements Of Mendelian Genetics Which Is Very Crucial To The Understanding Of The Subject Have Been Included Right In The Beginning The Relevant Topics Of Population Genetics Essential For Understanding The Principles Of Quantitative Inheritance Have Also Been Dealt With Special Treatment Has Been Given To The Topics Dealing With The Methods Of Selection And Crossbreeding Which Can Bring About Desired Genetic Improvement Diallel And Partial Diallel Crosses Both The Design As Well As The Analysis Aspects Have Been Included Because Of The Inter Disciplinary Nature Of The Subject Bringinng In So To Say Biology And Mathematics Together The Book Has Adopted An Integrated Approach Placing Due Emphasis On Both The Fields Appropriate Mathematical And Statistical Derivations For Mathematically Oriented Readers As Also Concepts In Non Mathematical Terms For Biologist Friends Have Been Presented

In A Judicious Manner **Heterogeneity in Statistical Genetics** Derek Gordon, Stephen J. Finch, Wonkuk Kim, 2020-12-16

Heterogeneity or mixtures are ubiquitous in genetics Even for data as simple as mono genic diseases populations are a mixture of affected and unaffected individuals Still most statistical genetic association analyses designed to map genes for diseases and other genetic traits ignore this phenomenon In this book we document methods that incorporate heterogeneity into the design and analysis of genetic and genomic association data Among the key qualities of our developed statistics is that they include mixture parameters as part of the statistic a unique component for tests of association A critical feature of this work is the inclusion of at least one heterogeneity parameter when performing statistical power and sample size calculations for tests of genetic association We anticipate that this book will be useful to researchers who want to estimate heterogeneity in their data develop or apply genetic association statistics where heterogeneity exists and accurately evaluate statistical power and sample size for genetic association through the application of robust experimental design Statistical Learning in Genetics Daniel Sorensen, 2023-09-19 This book provides an introduction to computer based methods for the analysis of genomic data Breakthroughs in molecular and computational biology have contributed to the emergence of vast data sets where millions of genetic markers for each individual are coupled with medical records generating an unparalleled resource for linking human genetic variation to human biology and disease Similar developments have taken place in animal and plant breeding where genetic marker information is combined with production traits An important task for the statistical geneticist is to adapt construct and implement models that can extract information from these large scale data An initial step is to understand the methodology that underlies the probability models and to learn the modern computer intensive methods required for fitting these models The objective of this book suitable for readers who wish to develop analytic skills to perform genomic research is to provide guidance to take this first step This book is addressed to numerate biologists who typically lack the formal mathematical background of the professional statistician For this reason considerably more detail in explanations and derivations is offered It is written in a concise style and examples are used profusely A large proportion of the examples involve programming with the open source package R The R code needed to solve the exercises is provided The Markdown interface allows the students to implement the code on their own computer contributing to a better understanding of the underlying theory Part I presents methods of inference based on likelihood and Bayesian methods including computational techniques for fitting likelihood and Bayesian models Part II discusses prediction for continuous and binary data using both frequentist and Bayesian approaches Some of the models used for prediction are also used for gene discovery The challenge is to find promising genes without incurring a large proportion of false positive results Therefore Part II includes a detour on False Discovery Rate assuming frequentist and Bayesian perspectives The last chapter of Part II provides an overview of a selected number of non parametric methods Part III consists of exercises and their solutions Daniel Sorensen holds PhD and DSc degrees from the University of Edinburgh and is an elected Fellow of the American Statistical

Association He was professor of Statistical Genetics at Aarhus University where at present he is professor emeritus

Introduction to Statistical Methods in Modern Genetics M.C. Yang, 2000-02-23 Although the basic statistical theory behind modern genetics is not very difficult most statistical genetics papers are not easy to read for beginners in the field and formulae quickly become very tedious to fit a particular area of application **Introduction to Statistical Methods in Modern Genetics** distinguishes between the necessary and unnecessary complexity in a presentation designed for graduate level statistics students The author keeps derivations simple but does so without losing the mathematical details He also provides the required background in modern genetics for those looking forward to entering this arena Along with some of the statistical tools important in genetics applications students will learn How a gene is found How scientists have separated the genetic and environmental aspects of a person s intelligence How genetics are used in agriculture to improve crops and domestic animals What a DNA fingerprint is and why there are controversies about it Although the author assumes students have a foundation in basic statistics an appendix provides the necessary background beyond the elementary including multinomial distributions inference on frequency tables and discriminant analysis With clear explanations a multitude of figures and exercise sets in each chapter this text forms an outstanding entr e into the rapidly expanding world of genetic data analysis

The Fundamentals of Modern Statistical Genetics Nan M. Laird, Christoph Lange, 2010-12-13 This book covers the statistical models and methods that are used to understand human genetics following the historical and recent developments of human genetics Starting with Mendel s first experiments to genome wide association studies the book describes how genetic information can be incorporated into statistical models to discover disease genes All commonly used approaches in statistical genetics e g aggregation analysis segregation linkage analysis etc are used but the focus of the book is modern approaches to association analysis Numerous examples illustrate key points throughout the text both of Mendelian and complex genetic disorders The intended audience is statisticians biostatisticians epidemiologists and quantitatively oriented geneticists and health scientists wanting to learn about statistical methods for genetic analysis whether to better analyze genetic data or to pursue research in methodology A background in intermediate level statistical methods is required The authors include few mathematical derivations and the exercises provide problems for students with a broad range of skill levels No background in genetics is assumed

Statistical Methods in Genetic Epidemiology Duncan C. Thomas, 2004-01-29 This well organized and clearly written text has a unique focus on methods of identifying the joint effects of genes and environment on disease patterns It follows the natural sequence of research taking readers through the study designs and statistical analysis techniques for determining whether a trait runs in families testing hypotheses about whether a familial tendency is due to genetic or environmental factors or both estimating the parameters of a genetic model localizing and ultimately isolating the responsible genes and finally characterizing their effects in the population Examples from the literature on the genetic epidemiology of breast and colorectal cancer among other diseases illustrate this process Although

the book is oriented primarily towards graduate students in epidemiology biostatistics and human genetics it will also serve as a comprehensive reference work for researchers Introductory chapters on molecular biology Mendelian genetics epidemiology statistics and population genetics will help make the book accessible to those coming from one of these fields without a background in the others It strikes a good balance between epidemiologic study designs and statistical methods of data analysis

Statistical Genetics of Quantitative Traits Rongling Wu, Changxing Ma, George Casella, 2007-07-17 Most traits in nature and of importance to agriculture are quantitatively inherited These traits are difficult to study due to the complex nature of their inheritance However recent developments of genomic technologies provide a revolutionary means for unraveling the secrets of genetic variation in quantitative traits Genomic technologies allow the molecular characterization of polymorphic markers throughout the entire genome that are then used to identify and map the genes or quantitative trait loci QTLs underlying a quantitative trait based on linkage analysis Statistical analysis is a crucial tool for analyzing genome data which are now becoming increasingly available for a variety of species and for giving precise explanations regarding genetic variation in quantitative traits occurring among species populations families and individuals In 1989 Lander and Botstein published a landmark methodological paper for interval mapping that enables geneticists to detect and estimate individual QTL that control the phenotype of a trait Today interval mapping is an important statistical tool for studying the genetics of quantitative traits at the molecular level and has led to the discovery of thousands of QTLs responsible for a variety of traits in plants animals and humans In a recent study published in Science Li Zhou and Sang 2006 311 1936 1939 were able to characterize the molecular basis of the reduction of grain shattering a fundamental selection process for rice domestication at the detected QTL by interval mapping

Mathematical and Statistical Methods for Genetic Analysis Kenneth Lange, 2003-06-03 Written to equip students in the mathematical sciences to understand and model the epidemiological and experimental data encountered in genetics research This second edition expands the original edition by over 100 pages and includes new material Sprinkled throughout the chapters are many new problems

Applied Statistical Genetics with R Andrea S. Foulkes, 2009-04-28 Statistical genetics has become a core course in many graduate programs in public health and medicine This book presents fundamental concepts and principles in this emerging field at a level that is accessible to students and researchers with a first course in biostatistics Extensive examples are provided using publicly available data and the open source statistical computing environment R

An Introduction to Statistical Genetic Data Analysis Melinda C. Mills, Nicola Barban, Felix C. Tropf, 2020-02-18 A comprehensive introduction to modern applied statistical genetic data analysis accessible to those without a background in molecular biology or genetics Human genetic research is now relevant beyond biology epidemiology and the medical sciences with applications in such fields as psychology psychiatry statistics demography sociology and economics With advances in computing power the availability of data and new techniques it is now possible to integrate large

scale molecular genetic information into research across a broad range of topics This book offers the first comprehensive introduction to modern applied statistical genetic data analysis that covers theory data preparation and analysis of molecular genetic data with hands on computer exercises It is accessible to students and researchers in any empirically oriented medical biological or social science discipline a background in molecular biology or genetics is not required The book first provides foundations for statistical genetic data analysis including a survey of fundamental concepts primers on statistics and human evolution and an introduction to polygenic scores It then covers the practicalities of working with genetic data discussing such topics as analytical challenges and data management Finally the book presents applications and advanced topics including polygenic score and gene environment interaction applications Mendelian Randomization and instrumental variables and ethical issues The software and data used in the book are freely available and can be found on the book s website

Schizophrenia Bulletin ,2007

Statistical Genetics Shrin Glander,Taylor & Francis Group,2018-08 This book is a guide to statistical genetics analyses with R The focus will be on conveying concepts and theories while providing easy to reproduce working examples using established methods and packages The audience is primarily users without mathematical background but with a strong foundation in biology A basic knowledge of R is assumed but experience with statistical genetics is not needed Each chapter includes exercises The book serves as a guide to understanding and applying statistical genetics approaches in R and covers a wide range of topics from quantitative genetics population and evolutionary genetics to genetic epidemiology and the analysis of complex traits

The Fundamentals of Modern Statistical Genetics Nan M. Laird,2011-03-30

A Primer of Statistical Genetics Rudy Guerra,2015-06-15 The problems of genetics require statistical analysis However it is not enough to know how to conduct a statistical analysis to do a good job of solving genetic problems A Primer of Statistical Genetics introduces statistical genetics with an emphasis on the basic concepts and principles unique to the genetics context To bridge the novice to the more advanced books the author also emphasizes the nature of the problems through real case studies but not at the cost of statistical rigor so readers will develop better comprehension and appreciation for how real problems are solved The book highlights study design issues and an understanding of genetic data

Statistics in Human Genetics Pak Sham,1997-12-08 Rigorous statistical analysis methods for human genetics application Statistics in Human Genetics explores the statistical analysis methods that are critical to good science Beginning with a brief review of genes gene structure variation and terminology the book moves into analysis of segregation genetic linkage allelic associations and continuity for a wide range of conditions From the classic Hardy Weinberg equation to advanced modeling algorithms and more this book provides authoritative guidance toward methods analysis and applications for anyone performing quantitative analysis of human genetics

Statistical Genetics and Plant Breeding Warren Durward Hanson,Harold Frank Robinson,1963

Human Biology Raymond Pearl,1929 Includes section Recent literature useful in the study of human biology

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