

The Statistics of Inheritance

How can statistics help predict the traits of offspring?

Why?

The randomization of alleles from the parents' genetic material is essential to the survival and evolution of a species. If the combinations of alleles that make up the genetic material in a zygote are truly random, the laws of statistics can be used to predict what traits the offspring will have. This activity starts with a review of Punnett squares, which is one way to make predictions about simple allele combinations. Statistics will then be used to make mathematical predictions about the genotypes of offspring.

Model 1 – Punnett Squares

Phenotype Genotype



BB



Bb



bb

Female

Male

	B	B
B	BB	BB
b	Bb	Bb

Cross A

	B	b
B	Bb	Bb
b	Bb	bb

Cross C

	B	B
B	BB	BB
b	Bb	Bb

Cross B

	B	b
B		
b		

Cross D

- Consider the beetle species in Model 1.
 - How many phenotypes for exoskeleton color are exhibited in the population? What are they?
 - How many genotypes for exoskeleton color are exhibited in the population? What are they?
- According to Model 1, which allele, B or b, is the dominant exoskeleton color allele? Justify your answer with specific evidence from Model 1.
- The Punnett squares in Model 1 show the possible outcomes for an offspring resulting from the mating of two beetles.
 - Which Punnett square shows a cross between two homozygous beetles?
 - Which Punnett square shows a cross between a heterozygous beetle and a homozygous recessive beetle?
- Briefly describe how the genotypes inside of the Punnett squares representing the possible outcomes for an offspring are determined.
- Complete the Punnett square for cross D in Model 1. Include drawings to show the phenotypes possible for the offspring that would result.
- Refer to Model 1.
 - In which of the crosses is there a 100% chance that the beetle offspring will have a black exoskeleton?
 - In which of the crosses is the probability 0.75 that the beetle offspring will have a black exoskeleton?
- For cross D in Model 1, what is the probability that the beetle offspring will have a Bb genotype? Show a mathematical calculation to support your answer.

The Statistics Of Inheritance

Francisco Louçã



The Statistics Of Inheritance:

The Statistics of Gene Mapping David Siegmund,Benjamin Yakir,2007-05-27 This book details the statistical concepts used in gene mapping first in the experimental context of crosses of inbred lines and then in outbred populations primarily humans It presents elementary principles of probability and statistics which are implemented by computational tools based on the R programming language to simulate genetic experiments and evaluate statistical analyses Each chapter contains exercises both theoretical and computational some routine and others that are more challenging The R programming language is developed in the text Statistics in Molecular Biology and Genetics Françoise Seillier-Moiseiwitsch,1999

Statistics in Human Genetics and Molecular Biology Cavan Reilly,2009-06-19 Focusing on the roles of different segments of DNA Statistics in Human Genetics and Molecular Biology provides a basic understanding of problems arising in the analysis of genetics and genomics It presents statistical applications in genetic mapping DNA protein sequence alignment and analyses of gene expression data from microarray experiments **The Years of High Econometrics** Francisco

Louçã,1998-11-05 A fascinating and comprehensive history this book explores the most important transformation in twentieth century economics the creation of econometrics Containing fresh archival material that has not been published before and taking Ragnar Frisch as the narrator Francisco Louca discusses both the keys events the establishment of the Econometric Society the Cowles Commission and the journal Econometrica and the major players economists like Wesley Mitchell mathematicians like John von Neumann and statisticians like Karl Pearson in history that shaped the development of econometrics He discusses the evolution of their thought detailing the debates the quarrels and the interrogations that crystallized their work and even offers a conclusion of sorts suggesting that some of the more influential thinkers abandoned econometrics or became critical of its development International in scope and appeal The Years of High Econometrics is an excellent accompaniment for students taking courses on probability econometric methods and the history of economic thought

Top Incomes A. B. Atkinson,Thomas Piketty,2010-04 This volume brings together an exciting range of new studies of top incomes in a wide range of countries from around the world The studies use data from income tax records to cast light on the dramatic changes that have taken place at the top of the income distribution The results cover 22 countries and have a long time span going back to 1875 **Housing and Family Wealth** R Forrest,2013-07-23 First published in

1995 Routledge is an imprint of Taylor Francis an informa company **Statistics and Science** Darlene Renee Goldstein,T. P. Speed,2003 **The Lancet** ,1896 Hierarchy in Natural and Social Sciences Denise Pumain,2006-02-09 Hierarchy is a form of organisation of complex systems that rely on or produce a strong differentiation in capacity power and size between the parts of the system It is frequently observed within the natural living world as well as in social institutions According to the authors hierarchy results from random processes follows an intentional design or is the result of the organisation which ensures an optimal circulation of energy for information This book reviews ancient and modern representations and

explanations of hierarchies and compares their relevance in a variety of fields such as language societies cities and living species It throws light on concepts and models such as scaling laws fractals and self organisation that are fundamental in the dynamics and morphology of complex systems At a time when networks are celebrated for their efficiency flexibility and better social acceptance much can be learned about the persistent universality and adaptability of hierarchies and from the analogies and differences between biological and social organisation and processes This book addresses a wide audience of biologists and social scientists as well as managers and executives in a variety of institutions

Winners And Losers Chris Hamnett, 2005-07-15 First published in 1998 The growth of home ownership since the end of the Second World War marks one of the most fundamental social changes to have taken place in Britain From being a nation of renters at the end of war Britain has been converted into a nation of home owners In 1945 approximately 25% of households in Britain owned their own homes Today the proportion is just over two thirds In the process the proportion of households renting from private landlords has fallen from 65% to about 8% As a result the home ownership market in Britain plays a far more important role today than hitherto both in housing the population and as a potential source of capital gains and losses In addition the home ownership market plays a significant role in the overall health of the economy This is not to deny the importance of social and private rented housing or the major problems of homelessness It is simply to assert that the home ownership market now affects two out of three households in Britain and many more who wish to gain access to it This book is about the dramatic booms and busts of the home ownership market in Britain during the last twenty years and their causes and consequences both for the individuals involved and for the economy as a whole It argues that the home ownership market in Britain particularly in southern Britain where the booms and slumps have been experienced most sharply has been akin to a casino There have been big winners but there have also been big losers The last thirty years have been a roller coaster ride for owners exhilarating but potentially highly dangerous not least for those who fell off or were thrown off in the slump of the early 1990s

Developments in Statistics Paruchuri R. Krishnaiah, 2014-06-28 Developments in Statistics Volume 4 reviews developments in the theory and applications of statistics covering topics such as time series identifiability and model selection and missing data The application of structured exploratory data analysis to human genetics specifically the mode of inheritance is also considered Comprised of four chapters this volume begins with an introduction to spectrum parameter estimation in time series analysis restricting the discussion to the simplest univariate that is scalar real valued time series X_t An accurate formulation of the general problem is presented The accuracy of different consistent estimates obtained for large but fixed values of T maximum likelihood estimates Whittle's estimates and simplified asymptotically efficient estimates is also compared The next chapter deals with identifiability and modeling in econometrics focusing on the theoretical framework relating realization theory identification and parametrization The realization theory is illustrated on various levels of generality by means of examples related to econometrics along with some advanced applications of system theory The

book also examines inference on parameters of multivariate normal populations when some data are missing before concluding with an evaluation of structured exploratory data as applied to the study of the mode of inheritance This monograph will be of interest to students and practitioners of statistics

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

Introduction to Probability and Statistics for Engineers and Scientists Sheldon M. Ross, 2009-03-13 This updated text provides a superior introduction to applied probability and statistics for engineering or science majors Ross emphasizes the manner in which probability yields insight into statistical problems ultimately resulting in an intuitive understanding of the statistical procedures most often used by practicing engineers and scientists Real data sets are incorporated in a wide variety of exercises and examples throughout the book and this emphasis on data motivates the probability coverage As with the previous editions Ross text has tremendously clear exposition plus real data examples and exercises throughout the text Numerous exercises examples and applications apply probability theory to everyday statistical problems and situations New Chapter on Simulation Bootstrap Statistical Methods and Permutation Tests 20% New Updated problem sets and applications that demonstrate updated applications to engineering as well as biological physical and computer science New Real data examples that use significant real data from actual studies across life science engineering computing and business New End of Chapter review material that emphasizes key ideas as well as the risks associated with practical application of the material

Foundations of Animal Behavior Lynne D. Houck, Lee C. Drickamer, 1996-08 Beginning with Darwin's work in the 1870s Foundations of Animal Behavior selects the most important works from the discipline's first hundred years forty four classic papers and presents them in facsimile tracing the

development of the field These papers are classics because they either founded a line of investigation established a basic method or provided a new approach to an important research question The papers are divided into six sections each introduced by prominent researchers Sections one and two cover the origins and history of the field and the emergence of basic methods and approaches They provide a background for sections three through six which focus on development and learning neural and hormonal mechanisms of behavior sensory processes orientation and communication and the evolution of behavior This outstanding collection will serve as the basis for undergraduate and graduate seminars and as a reference for researchers in animal behavior whether they focus on ethology behavioral ecology comparative psychology or anthropology

Published in association with the Animal Behavior Society The Westminster Review, 1869 **The Westminster review [afterw.] The London and Westminster review [afterw.] The Westminster review [afterw.] The Westminster and foreign quarterly review [afterw.] The Westminster review [ed. by sir J. Bowring and other].** sir John Bowring, 1869

Ecology Michael Allaby, 2010 Traces the origin of ecology and explains what it is and how it has progressed over time

Origins of the Welfare State Nicholas Deakin, 2000 Contains A plan for democratic Britain by GDH Cole What have we to defend by EFM Durbin *A System of Practical Medicine* William Pepper, Louis Starr, 1885 A Statistical Approach to

Genetic Epidemiology Andreas Ziegler, Inke R. König, Friedrich Pahlke, 2011-08-24 A Statistical Approach to Genetic Epidemiology After studying statistics and mathematics at the University of Munich and obtaining his doctoral degree from the University of Dortmund Andreas Ziegler received the Johann Peter S. Smilch Medal of the German Association for Medical Informatics Biometry and Epidemiology for his post doctoral work on Model Free Linkage Analysis of Quantitative Traits in 1999 In 2004 he was one of the recipients of the Fritz Linder Forum Award from the German Association for Surgery

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