

# **Population Genetics**

Torbjörn Säll,Bengt O. Bengtsson

## **Population Genetics:**

**Principles of Population Genetics** Daniel L. Hartl, Andrew G. Clark, 1989 Darwinian evolution in mendelian populations Random genetic drift Mutation and the neutral theory Natural selection Inbreeding and other forms of nonrandom mating Population subdivision and migration Molecular population genetics Evolutionary genetics of quantitative characters Ecological genetics and speciation Population Genetics Matthew B. Hamilton, 2021-02-10 Now updated for its second edition Population Genetics is the classic accessible introduction to the concepts of population genetics Combining traditional conceptual approaches with classical hypotheses and debates the book equips students to understand a wide array of empirical studies that are based on the first principles of population genetics Featuring a highly accessible introduction to coalescent theory as well as covering the major conceptual advances in population genetics of the last two decades the second edition now also includes end of chapter problem sets and revised coverage of recombination in the coalescent model metapopulation extinction and recolonization and the fixation index Population Genetics and Microevolutionary Theory Alan R. Templeton, 2006-09-29 The advances made possible by the development of molecular techniques have in recent years revolutionized quantitative genetics and its relevance for population genetics Population Genetics and Microevolutionary Theory takes a modern approach to population genetics incorporating modern molecular biology species level evolutionary biology and a thorough acknowledgment of quantitative genetics as the theoretical basis for population genetics Logically organized into three main sections on population structure and history genotype phenotype interactions and selection adaptation Extensive use of real examples to illustrate concepts Written in a clear and accessible manner and devoid of complex mathematical equations Includes the author's introduction to background material as well as a conclusion for a handy overview of the field and its modern applications Each chapter ends with a set of review questions and answers Offers helpful general references and Internet links Mathematical Population Genetics 1 Warren J. Ewens, 2004-01-09 This is the first of a planned two volume work discussing the mathematical aspects of population genetics with an emphasis on evolutionary theory This volume draws heavily from the author s 1979 classic but it has been revised and expanded to include recent topics which follow naturally from the treatment in the earlier edition such as the theory of molecular population The Foundations of Population Genetics Daniel M. Weinreich, 2023-08-29 An accessible but rigorous treatment genetics of the theoretical foundations of population genetics Population genetics the branch of evolutionary biology concerned with understanding how and why populations genetic compositions change over time rests on a well developed theoretical foundation that draws on genetics mathematics and computer science This textbook provides an approachable but rigorous treatment for advanced undergraduate and graduate students interested in building a quantitative understanding of the genetics of evolution Existing texts either assume very mathematically advanced readers or avoid much of the underlying theory instead focusing on current methods of data analysis In contrast The Foundations of Population Genetics develops the

theory from first principles Requiring only confidence in algebra this self contained student friendly book illustrates the conceptual framework terminology and methods of mathematical modeling It progressively introduces concepts from genetics as needed while emphasizing biological implications throughout As a result readers come away with a deep understanding of the structure of population genetics without needing to master its mathematics Connects theory with the most recent genetic data better than existing texts Features engaging real world examples and extensive original figures Provides dozens of carefully scaffolded questions that deepen the reader's understanding of key concepts Ideal as a succinct reference for established scientists in biology medicine and computer science Instructor resources available Genetics and Microevolutionary Theory Alan R. Templeton, 2006-09-29 The advances made possible by the development of molecular techniques have in recent years revolutionized quantitative genetics and its relevance for population genetics Population Genetics and Microevolutionary Theory takes a modern approach to population genetics incorporating modern molecular biology species level evolutionary biology and a thorough acknowledgment of quantitative genetics as the theoretical basis for population genetics Logically organized into three main sections on population structure and history genotype phenotype interactions and selection adaptation Extensive use of real examples to illustrate concepts Written in a clear and accessible manner and devoid of complex mathematical equations Includes the author's introduction to background material as well as a conclusion for a handy overview of the field and its modern applications Each chapter ends with a set of review questions and answers Offers helpful general references and Internet links An Introduction to Population Genetics Theory J.F. Crow, 2017-01-01 This text book originally published in 1970 presents the field of population genetics starting with elementary concepts and leading the reader well into the field It is concerned mainly with population genetics in a strict sense and deals primarily with natural populations and less fully with the rather similar problems that arise in breading live stock and cult i vated plans The emphasis is on the behavior of genes and population attributes under natural selection where the most important measure is Darwinian fitness This text is intended for graduatestudents and advanced undergraduates in genetics and population biology This book steers a middle course between completely verbal biological arguments and the rigor of the mathematician The first two thirds of the book do not require advanced mathematical background An ordinary knowledge of calculus will suffice The latter parts of the book which deal with population stochastically use more advanced methods Introduction to Population Genetics Richard Halliburton, 2004 Making the theory of population genetics relevant to readers this book explains the related mathematics with a logical organization It presents the quantitative aspects of population genetics and employs examples of human genetics medical evolution human evolution and endangered species For an introduction to and understanding of population genetics **Mathematical Population Genetics 1** Warren J. Ewens, 2012-10-01 Population genetics occupies a central role in a number of important biological and social undertakings It is fundamental to our understanding of evolutionary processes of plant and animal

breeding programs and of various diseases of particular importance to mankind This is the first of a planned two volume work discussing the mathematical aspects of population genetics with an emphasis on the evolutionary theory This first volume draws heavily from the author's classic 1979 edition which appeared originally in Springer's Biomathematics series It has been revised and expanded to include recent topics which follow naturally from the treatment in the earlier edition e.g. the theory of molecular population genetics. This book will appeal to graduate students and researchers in mathematical biology and other mathematically trained scientists looking to enter the field of population genetics **Genetics:** Donald P. Doolittle, 2012-12-06 I have for a number of years taught a course in population genetics for students interested in plant and animal breeding The objective of the course has been to lay a foundation in population genetics for the concepts of quantitative genetics which are introduced in the last third of the course I have not been able to find an appropriate text for this purpose For a quarter of a century Falconer's Introduction to Quantitative Genetics has been the standard and excellent text in that subject For my purposes however this text is not sufficiently detailed in the population genetics basis for quantitative theory A number of good texts in population genetics are available of which Li s First Course in Population Genetics is didactically the best But these texts are directed toward the genetics of natural populations rather than domestic populations breeding under human control They also tend to treat quantitative genetics gingerly if at all I have therefore developed the present text from my teaching notes The chapters of this book are labeled Lectures Each is intended to correspond approximately to the amount of material which can be covered in a 50 minute lecture Divisions are of course dictated by the natural divisions of the subject matter and the lectures are therefore not of uniform length Nevertheless in so far as possible an attempt has been made to make the average length a lecture s worth **Population Genetics** John H. Gillespie, 2004-08-06 This concise introduction offers students and researchers an overview of the discipline that connects genetics and evolution Addressing the theories behind population genetics and relevant empirical evidence John Gillespie discusses genetic drift natural selection nonrandom mating quantitative genetics and the evolutionary advantage of sex First published to wide acclaim in 1998 this brilliant primer has been updated to include new sections on molecular evolution genetic drift genetic load the stationary distribution and two locus dynamics. This book is indispensable for students working in a laboratory setting or studying free ranging populations **Population Genetics with R** Áki Jarl Láruson, Floyd A. Reed, 2021 This book focuses on applying the hugely popular R software specifically to the field offering an accessible step by step guide to tackling the challenges of achieving effective data interpretation and summary Understanding Population Genetics Torbjörn Säll, Bengt O. Bengtsson, 2017-07-14 An inspiring introduction to a vital scientific field The reader is taken through ten mathematical derivations that lead to important results explaining in a hands on manner the key concepts and methods of theoretical population genetics. The derivations are carefully worked out and easy to follow Particular attention is given to the underlying assumptions and the mathematics used The results are discussed and broadened out with relevant

current implications All topics feature questions with helpful answers The book is intended for the reader who already knows some population genetics but requires a more comprehensive understanding It is particularly suited to those who analyse genetic data and wish to better grasp what their results actually mean It will also be helpful for those who wish to understand how population genetics contributes to the explanation of evolution Or as the writers claim If one wants to understand life in all its improbable and amazing richness one must start by understanding population genetics Genetics of Populations Philip W. Hedrick, 2009-12-29 The Fourth Edition of Genetics of Populations is the most current comprehensive and accessible introduction to the field for advanced undergraduate and graduate students and researchers in genetics evolution conservation and related fields In the past several years interest in the application of population genetics principles to new molecular data has increased greatly and Dr Hedrick's new edition exemplifies his commitment to keeping pace with this dynamic area of study Reorganized to allow students to focus more sharply on key material the Fourth Edition integrates coverage of theoretical issues with a clear presentation of experimental population genetics and empirical data Drawing examples from both recent and classic studies and using a variety of organisms to illustrate the vast developments of population genetics this text provides students and researchers with the most comprehensive resource in the field Preview Chapter 4 Today Updated with the latest information within the area of genomics discussed at the population genetics level A new reorganization allows students to grasp important concepts like molecular evolution earlier in the course Includes new and revised end of chapter exercises and new examples have been introduced throughout the text A student friendly writing style provides clear explanations of difficult topics. This text was designed for graduate students and advanced undergraduates who have had a course in genetics or evolution and have an aptitude for quantitative thinking The level of mathematics generally required is college algebra but introductory calculus and statistics are sometimes employed Possible course titles include Population Genetics and Genetics of Populations 2011 675 pages The Origins of Theoretical Population Genetics William B. Provine, 2020-07-24 Tracing the development of population genetics through the writings of such luminaries as Darwin Galton Pearson Fisher Haldane and Wright William B Provine sheds light on this complex field as well as its bearing on other branches of biology Theories of Population Variation in Genes and Genomes Freddy Bugge Christiansen, 2014-12-17 This textbook provides an authoritative introduction to both classical and coalescent approaches to population genetics Written for graduate students and advanced undergraduates by one of the world's leading authorities in the field the book focuses on the theoretical background of population genetics while emphasizing the close interplay between theory and empiricism Traditional topics such as genetic and phenotypic variation mutation migration and linkage are covered and advanced by contemporary coalescent theory which describes the genealogy of genes in a population ultimately connecting them to a single common ancestor Effects of selection particularly genomic effects are discussed with reference to molecular genetic variation. The book is designed for students of population genetics

bioinformatics evolutionary biology molecular evolution and theoretical biology as well as biologists molecular biologists breeders biomathematicians and biostatisticians Contains up to date treatment of key areas in classical and modern theoretical population genetics Provides in depth coverage of coalescent theory Discusses genomic effects of selection Gives examples from empirical population genetics Incorporates figures diagrams and boxed features throughout Includes end of chapter exercises Speaks to a wide range of students in biology bioinformatics and biostatistics **Human Population** Population Genetics W.J. Ewens, 2013-03-12 Population genetics is the mathematical **Genetics** Russell M. Reid,1978 investigation of the changes in the genetic structure of populations brought about by selection mutation inbreeding migration and other phenomena together with those random changes deriving from chance events These changes are the basic components of evolutionary progress and an understanding of their effect is therefore necessary for an informed discussion of the reasons for and nature of evolution It would however be wrong to pretend that a mathematical theory depending as it must on a large number of simplifying assumptions should be accepted unreservedly and that its conclusions should be accepted uncritically No one would pretend that in the event of disagreement between observation and mathematical prediction the discrepancy is due to anything other than the inadequacy of the mathematical treatment The biological world is of course far too complex for the study of population genetics to be simply a branch of applied mathematics so that while we are concerned here with the mathematical theory I have tried to indicate which of our results should continue to apply in a context wider than that in which they are formally derived The difficulties involved in the joint discussions of mathematical and genetical problems are obvious enough I have tried to aim this book rather more at the mathematician than at the geneticist and for this reason a brief glossary of common genetical terms is included A Primer of Population Genetics and Genomics Daniel L. Hartl, 2020-06-18 A Primer of Population Genetics and Genomics has been completely revised and updated to provide a concise but comprehensive introduction to the basic concepts of population genetics and genomics Recent textbooks have tended to focus on such specialized topics as the coalescent molecular evolution human population genetics or genomics This primer bucks that trend by encouraging a broader familiarity with and understanding of population genetics and genomics as a whole The overview ranges from mating systems through the causes of evolution molecular population genetics and the genomics of complex traits Interwoven are discussions of ancient DNA gene drive landscape genetics identifying risk factors for complex diseases the genomics of adaptation and speciation and other active areas of current research The principles are illuminated by numerous examples from a wide variety of animals plants microbes and human populations The approach also emphasizes learning by doing which in this case means solving numerical or conceptual problems The rationale behind this is that the use of concepts in problem solving lead to deeper understanding and longer knowledge retention This accessible introductory textbook is aimed principally at students of various levels and abilities from senior undergraduate to postgraduate as well as practising scientists in the fields of

population genetics ecology evolutionary biology computational biology bioinformatics biostatistics physics and mathematics *Bacterial Population Genetics in Infectious Disease* D. Ashley Robinson, Edward J Feil, Daniel Falush, 2010-03-16 This book is a unique synthesis of the major concepts and methods in bacterial population genetics in infectious disease a field that is now about 35 yrs old Emphasis is given to explaining population level processes that shape genetic variation in bacterial populations and statistical methods of analysis of bacterial genetic data A how to of bacterial population genetics which covers an extremely large range of organisms Expanding area of science due to high throughput genome sequencing of bacterial pathogens Covers both fundamental approaches to analyzing bacterial population structures with conceptual background in bacterial population biology Detailed treatment of statistical methods

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