

# Conservation Of Wildlife Populations Demography Genetics And Management

Convergent Issues in Genetics and Demography Population Genetics and Microevolutionary Theory Genetics, Demography and Viability of Fragmented Populations Population Genetics and Evolution Mathematical Theories of Populations Human Population Genetics and Genomics A Primer of Population Genetics and Genomics Population Dynamics and the Tribolium Model: Genetics and Demography Polyploid Population Genetics and Evolution - From Theory to Practice Patterns of Human Variation A Primer of Population Genetics Introduction to Population Genetics Conservation and the Genetics of Populations Demographic Genetics Conservation of Wildlife Populations An Introduction to Population Genetics Theory Non-equilibrium Population Genetics Principles of Population Genetics Evolutionary Ecology and Demographic Population Genetics of the Californian Serpentine Sunflower, *Helianthus Exilis* Demography and the Evolution of Genetic and Cultural Variation *Julian Adams Alan R. Templeton Andrew G. Young Lawrence E. Mettler Frank Hoppensteadt Alan R. Templeton Daniel L. Hartl Robert Costantino Hans D. Daetwyler Jonathan Scott Friedlaender Daniel L. Hartl Richard Halliburton Fred W. Allendorf Kenneth M. Weiss L. Scott Mills James Franklin Crow Shaila A. Musharoff Daniel L. Hartl Julianno Bergoch Monteiro Sambatti A. T. Powell*

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this volume provides up to date coverage of genetics and demography fields that are closely related but rarely combined now especially they have many topics and approaches in common the use of historical materials a basic concern with heterogeneity new models of vital rates with behavioral and biological components theories for the interplay of genetic and demographic factors in the spread of disease as a comprehensive survey of a fast growing field this will be a valuable source of information for a wide spectrum of professionals in genetics population biology biostatistics social and economic demography and anthropology

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

a detailed introduction to the genetic and demographic issues relevant to the conservation of fragmented populations

self contained and reader friendly this volume provides a balanced blend of evolutionary theory population genetics and systematics with an emphasis on the experimental approach

a basic model in population age structure is studied and then applied and extended to several population phenomena

human population genetics and genomics provides researchers students with knowledge on population genetics and relevant statistical approaches to help them become more effective users of modern genetic genomic and statistical tools in depth chapters offer thorough discussions of systems of mating genetic drift gene flow and subdivided populations human population history genotype and phenotype detecting selection units and targets of natural selection adaptation to temporally and spatially variable environments selection in age structured populations and genomics and society as human genetics and genomics research often employs tools and approaches derived from population genetics this book helps users understand the basic principles of these tools in addition studies often employ statistical approaches and analysis so an understanding of basic statistical theory is also needed comprehensively explains the use of population genetics and genomics in medical applications and research discusses the relevance of population genetics and genomics to major social issues including race and the dangers of modern eugenics proposals provides an overview of how population genetics and genomics helps us understand where we came from as a species and how we evolved into who we are now

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

the study of populations is becoming increasingly focused on dynamics we believe there are two reasons for this trend the first is the impact of nonlinear dynamics with its exciting ideas and colorful language bifurcations domains of attraction chaos fractals strange attractors complexity which is so very much a part of biology now seems to be also a part of mathematics a second trend is the accessibility of the new concepts the barriers to communication between theorist and experimentalist seem less impenetrable the active participation of the experimentalist means that the theory will obtain substance our role is the application of the theory of dynamics to the analysis of biological populations we began our work early in 1979 by writing an ordinary differential equation for the rate of change in adult numbers which was based on an equilibrium model proposed a decade earlier during the next few months we filled our notebooks with straightforward deductions from the model and its associated biological implications slowly some of the biological observations were explained and papers followed on a variety of topics genetic and demographic stability stationary probability distributions for population size population growth as a birth death process natural selection and density dependent population growth genetic disequilibrium and the stationary stochastic dynamics of adult numbers

the use of molecular methods to study genetic polymorphisms has made a familiarity with population genetics essential for any biologist whose work is at the population level a primer of population genetics third edition provides a concise but comprehensive introduction to population genetics the four chapters of the book address genetic variation the causes of evolution molecular population genetics and the genetic architecture of complex traits chapter end problems reinforce ideas and while there are some equations the emphasis is on explanation rather than derivation

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

loss of biodiversity is among the greatest problems facing the world today conservation and the genetics of populations gives a comprehensive overview of the essential background concepts and tools needed to understand how genetic information can be used to conserve species threatened with extinction and to manage species of ecological or commercial importance new molecular techniques statistical methods and computer programs genetic principles and methods are becoming increasingly useful in the conservation of biological diversity using a balance of data and theory coupled with basic and applied research examples this book examines genetic and phenotypic variation in natural populations the principles and mechanisms of evolutionary change the interpretation of genetic data from natural populations and how these can be applied to conservation the book includes examples from plants animals and microbes in wild and captive populations this second edition contains new chapters on climate change and exploited populations as well as new sections on genomics genetic monitoring emerging diseases metagenomics and more one third of the references in this edition were published

after the first edition each of the 22 chapters and the statistical appendix have a guest box written by an expert in that particular topic including james crow louis bernatchez loren rieseberg rick shine and lisette waits this book is essential for advanced undergraduate and graduate students of conservation genetics natural resource management and conservation biology as well as professional conservation biologists working for wildlife and habitat management agencies additional resources for this book can be found at [wiley.com/go/allendorfpopulations](http://wiley.com/go/allendorfpopulations)

early developments adding genetics to demographic concepts dispersal and population distribution

professor l scott mills has been named a 2009 guggenheim fellow by the board of trustees of the john simon guggenheim memorial foundation conservation of wildlife populations provides an accessible introduction to the most relevant concepts and principles for solving real world management problems in wildlife and conservation biology bringing together insights from traditionally disparate disciplines the book shows how population biology addresses important questions involving the harvest monitoring and conservation of wildlife populations covers the most up to date approaches for assessing factors that affect both population growth and interactions with other species including predation genetic changes harvest introduced species viability analysis and habitat loss and fragmentation is an essential guide for undergraduates and postgraduate students of wildlife biology conservation biology ecology and environmental studies and an invaluable resource for practising managers on how population biology can be applied to wildlife conservation and management artwork from the book is available to instructors online at [ahref.blackwellpublishing.com/mills/blackwellpublishing.com/mills](http://ahref.blackwellpublishing.com/mills/blackwellpublishing.com/mills) an instructor manual cd rom for this title is available please contact our higher education team at [ahref@mailto:highereducation@wiley.com](mailto:ahref@mailto:highereducation@wiley.com) for more information

this textbook originally published in 1970 is a classic in the field of population genetics it 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 breeding livestock and cultivated plants 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 graduate students 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 chapter titles 1 models of population growth 2 randomly mating populations 3 inbreeding 4 correlation between relatives and assortative mating 5 selection 6 populations in approximate equilibrium 7 properties of a finite population 8 stochastic processes in the change of gene frequencies 9 distribution of gene frequencies in populations appendix some statistical and mathematical methods frequently used in population genetics bibliography glossary index

elucidating the relationship between a population's history and its genetic data is a central goal of population genetics the recent deluge of genetic sequence data makes it possible to test long standing hypothesis about human demographic history and evolution and to assess the validity of commonly used equilibrium assumptions in this thesis i focus on questions in human population genetics concerning

deleterious mutational load and sex biased demography in chapter 2 i test the hypothesis that the load of deleterious alleles varies across populations and find evidence that it does possibly due to differing demographic histories in chapter 3 i present a new method to estimate the female fraction of the effective population size and apply it globally distributed data i find evidence for a pervasive female bias and a male biased bottleneck during the out of africa migration in chapter 4 i study more recent demographic events which led to the peopling of central and south america and the formation of admixed populations i apply a novel test for sex biased admixture to genomic data and find support for varying sex biased histories among populations these chapters highlight the importance of modeling demographic history in hypothesis testing and demonstrate ways in which current population genetic inference can be extended this thesis sheds light on the non equilibrium nature of human populations genetics and its results give insight into our shared history

this edition provides a balanced presentation of theory and observation it introduces the principles of genetics and statistics that are relevant to population studies and examines the forces affecting genetic variation from the molecular to the organismic level

this thesis addresses how demographic processes affect both genetic and cultural variation drawing on theory and techniques from both gene culture coevolution and population genetics and using both genetic and archaeological data i present a number of projects covering a wide range of questions on the evolutionary history of our species chapter 2 develops a simulation model of the gene culture coevolution of lactase persistence and dairying in neolithic europe using approximate bayesian computation abc to integrate modern genetic and archaeological data the results demonstrate that this coevolutionary process began 7 500 years ago in central europe the inferred origin is closely associated with the emergence of the linearbandkeramik lbk an early cattle based dairying culture chapter 3 extends a previous cultural evolutionary model to show that heterogeneity in subpopulation density causes spatial structuring of culturally inherited skill accumulation genetic estimates of regional effective population density demonstrate that the appearance of modern human behaviour during the late pleistocene can be explained by demographic factors chapter 4 reviews the application of the neutral model in archaeological and other cultural contexts and develops a novel statistical approach to test for deviation from neutrality results show that surprisingly high levels of non neutrality in the form of frequency dependent copying can go undetected chapter 5 develops a novel neutral model of cultural evolution relaxing some previous common assumptions outlined in chapter 4 the model allows accurate estimation of population parameters from minimal archaeological data and is applied to a decorated pottery dataset from the lbk settlements of southwest germany chapter 6 outlines the utility of the coalescent model of population genetics in inferring potentially complex demographic histories using both modern and ancient dna samples i provide two examples of my work from collaborative projects on the domestication of near eastern cattle and the demographic history of the hispaniolan hutia

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