

# Conservation Of Wildlife Populations Demography Genetics And Management

Population Genetics and Microevolutionary Theory  
Convergent Issues in  
Genetics and Demography  
Polyploid Population Genetics and Evolution - From  
Theory to Practice  
Human Population Genetics and Genomics  
Genetics,  
Demography and Viability of Fragmented Populations  
Patterns of Human  
Variation  
Mathematical Theories of Populations  
Population Dynamics and the  
Tribolium Model: Genetics and Demography  
Population Genetics and Evolution  
A  
Primer of Population Genetics  
Evolutionary Ecology and Demographic  
Population Genetics of the Californian Serpentine Sunflower, *Helianthus*  
*Exilis*  
Introduction to Population Genetics  
Demographic Genetics  
Progress in  
Population Genetics and Human Evolution  
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Population Genetics, Quantitative Genetics and Animal  
Improvement  
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Non-equilibrium  
Population Genetics  
An Introduction to Population Genetics Theory  
The Genetics  
of Migrant and Isolate Populations  
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Daetwyler Alan R. Templeton Andrew G. Young Jonathan Scott Friedlaender  
Frank Hoppensteadt Robert Costantino Lawrence E. Mettler Daniel L. Hartl  
Julianno Bergoch Monteiro Sambatti Richard Halliburton Kenneth M. Weiss  
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population genetics and microevolutionary theory explore the fundamentals of the biological implications of population genetic theory in the newly revised second edition of population genetics and microevolutionary theory accomplished researcher and author alan r templeton delivers a fulsome discussion of population genetics with coverage of exciting new developments in the field including new discoveries in epigenetics and genome wide studies the book prepares students to successfully apply population genetics analytical tools by providing a solid foundation in microevolutionary theory the book emphasizes that population structure forms the underlying template upon which quantitative genetics and natural selection operate and is a must read for future population and evolutionary geneticists and those who wish to work in genetic epidemiology or conservation biology you ll learn about a wide array of topics including quantitative genetics the interactions of natural selection with other evolutionary forces and selection in heterogeneous environments and age structured populations appendices that cover genetic survey techniques and probability and statistics conclude the book readers will also benefit from the inclusion of a thorough introduction to population genetics including the scope of the subject its premises and the hardy weinberg model of microevolution an exploration of systems of mating including a treatment of the use of runs of homozygosity to show pedigree inbreeding in distant ancestors a practical discussion of genetic drift including the use of effective sizes in conservation biology with a discussion of african rhinos as an example a concise examination of coalescence including a treatment of the infinite sites model perfect for graduate students in genetics and evolutionary biology programs and advanced undergraduate biology majors population genetics and microevolutionary theory will also earn a place in the libraries of students taking courses in conservation biology human genetics bioinformatics and genomics

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

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

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

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

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

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

early developments adding genetics to demographic concepts dispersal and population distribution

this book is devoted to the collection interpretation and analysis of population genetic data among the topics included here are studies on human evolutionary history molecular techniques for generating data statistical and computational techniques for the interpretation of such data and stochastic models for genealogy and population structure the chapters reflect the close interaction between experimental molecular biologists and theoreticians the book will be useful for specialists in the area as well as mathematicians statisticians computer scientists and biologists wanting a brief overview of current problems in the field

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 [blackwellpublishing.com/mills](http://blackwellpublishing.com/mills) a an instructor manual cd rom for this title is available please contact our higher education

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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/allendorf\\_populations](http://wiley.com/go/allendorf_populations)

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 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

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