

Second Edition



# Population Genetics and Microevolutionary Theory

Alan R. Templeton



WILEY Blackwell

# Population Genetics And Microevolutionary Theory

**Rachel S Tattersall**



## **Population Genetics And Microevolutionary Theory:**

*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

**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

**Human Population Genetics** John H. Relethford, 2012-03-27 Introductory guide to human population genetics and microevolutionary theory Providing an introduction to mathematical population genetics *Human Population Genetics* gives basic background on the mechanisms of human microevolution This text combines mathematics biology and anthropology and is best suited for advanced undergraduate and graduate study Thorough and accessible *Human Population Genetics* presents concepts and methods of population genetics specific to human population study utilizing uncomplicated mathematics like high school algebra and basic concepts of probability to explain theories central to the field By describing changes in the frequency of genetic variants from one generation to the next this book hones in on the mathematical basis of evolutionary theory *Human Population Genetics* includes Helpful formulae for learning ease Graphs and analogies that make basic points and relate the evolutionary process to mathematical ideas Glossary terms marked in boldface within the book the first time they appear In text citations that act as reference points for further research Exemplary case studies Topics such as Hardy Weinberg equilibrium inbreeding mutation genetic drift natural selection and gene flow *Human Population Genetics* solidifies

knowledge learned in introductory biological anthropology or biology courses and makes it applicable to genetic study NOTE errata for the first edition can be found at the author s website [http://employees.oneonta.edu/relethjh/HPG\\_errata.pdf](http://employees.oneonta.edu/relethjh/HPG_errata.pdf)

Human Population Genetics and Genomics Alan R. Templeton, 2018-11-08 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

*Genetic Diversity in Establishing Plant Populations* Steven H. Rogstad, Stephan Pelikan, 2011-09-02 The new research described in this book demonstrates that the interplay of a host of founding conditions can frequently produce profound differences in population expansion rates and maintenance of genetic diversity in contrasting populations that differ often only to slight degrees in initial founding conditions The goals of this book are twofo

*The Evolution of the Genome* T. Ryan Gregory, 2011-05-04 The Evolution of the Genome provides a much needed overview of genomic study through clear detailed expert authored discussions of the key areas in genome biology This includes the evolution of genome size genomic parasites gene and ancient genome duplications polypoidy comparative genomics and the implications of these genome level phenomena for evolutionary theory In addition to reviewing the current state of knowledge of these fields in an accessible way the various chapters also provide historical and conceptual background information highlight the ways in which the critical questions are actually being studied indicate some important areas for future research and build bridges across traditional professional and taxonomic boundaries The Evolution of the Genome will serve as a critical resource for graduate students postdoctoral fellows and established scientists alike who are interested in the issue of genome evolution in the broadest sense Provides detailed clearly written chapters authored by leading researchers in their respective fields Presents a much needed overview of the historical and theoretical context of the various areas of genomic study Creates important links between topics in order to promote integration across subdisciplines including descriptions of how each subject is actually studied Provides information specifically designed to be accessible to established researchers postdoctoral fellows and graduate students alike

**The Theory of Ecology** Samuel M.

Scheiner, Michael R. Willig, 2011-06-15 Despite claims to the contrary the science of ecology has a long history of building theories Many ecological theories are mathematical computational or statistical though and rarely have attempts been made to organize or extrapolate these models into broader theories The Theory of Ecology brings together some of the most respected and creative theoretical ecologists of this era to advance a comprehensive conceptual articulation of ecological theories The contributors cover a wide range of topics from ecological niche theory to population dynamic theory to island biogeography theory Collectively the chapters ably demonstrate how theory in ecology accounts for observations about the natural world and how models provide predictive understandings It organizes these models into constitutive domains that highlight the strengths and weaknesses of ecological understanding This book is a milestone in ecological theory and is certain to motivate future empirical and theoretical work in one of the most exciting and active domains of the life sciences

**Brenner's Encyclopedia of Genetics** Stanley Maloy, Kelly Hughes, 2013-03-03 The explosion of the field of genetics over the last decade with the new technologies that have stimulated research suggests that a new sort of reference work is needed to keep pace with such a fast moving and interdisciplinary field Brenner's Encyclopedia of Genetics Second Edition Seven Volume Set builds on the foundation of the first edition by addressing many of the key subfields of genetics that were just in their infancy when the first edition was published The currency and accessibility of this foundational content will be unrivalled making this work useful for scientists and non scientists alike Featuring relatively short entries on genetics topics written by experts in that topic Brenner's Encyclopedia of Genetics Second Edition Seven Volume Set provides an effective way to quickly learn about any aspect of genetics from Abortive Transduction to Zygotes Adding to its utility the work provides short entries that briefly define key terms and a guide to additional reading and relevant websites for further study Many of the entries include figures to explain difficult concepts Key terms in related areas such as biochemistry cell and molecular biology are also included and there are entries that describe historical figures in genetics providing insights into their careers and discoveries This 7 volume set represents a 25% expansion from the first edition with over 1600 articles encompassing this burgeoning field Thoroughly up to date with many new topics and subfields covered that were in their infancy or not in existence at the time of the first edition Timely coverage of emergent areas such as epigenetics personalized genomic medicine pharmacogenetics and genetic enhancement technologies Interdisciplinary and global in its outlook as befits the field of genetics Brief articles written by experts in the field which not only discuss define and explain key elements of the field but also provide definition of key terms suggestions for further reading and biographical sketches of the key people in the history of genetics *Stephen J. Gould: The Scientific Legacy* Gian Antonio Danieli, Alessandro Minelli, Telmo Pievani, 2013-07-23 Stephen J Gould's greatest contribution to science is a revised version of the theory of evolution which offers today a useful framework for understanding progress in many evolutionary fields His intuitions about the conjunction of evolution and development the role of ecological factors in speciation the multi level interpretation of the units of selection

and the interplay between functional pressures and constraints all represent fruitful lines of experimental research His opposition to the progressive representations of evolution the gene centered view of natural history or the adaptationist just so stories has also left its mark on current biology In May 2012 at the Istituto Veneto di Scienze Lettere ed Arti in Venice an international panel of scientists and philosophers discussed Stephen J Gould s legacy ten years after his death This book presents a selection of those contributions chosen for their interest and importance A broad range of themes are covered Gould s contribution to evolutionary theory including the concept of punctuated equilibria and the importance of his pluralism the Gouldian view of genome and development Gould s legacy in anthropology and finally the significance of his thought for the human sciences This book provides a fascinating appraisal of the cultural legacy of one of the world s greatest popular writers in the life sciences This is the first time that scientists including some of Gould s personal friends and co authors of papers of momentous importance such as Niles Eldredge have come together to strike a balanced view of Gould s intellectual heritage

*Discovery of the Life-Organizing Principle* E.M. Elsheik,2014-03-20 Everything you wanted to know about physics biology and the world at large becomes straightforward once you understand the life organizing principle Author E M Elsheikh a mathematician and longtime professor examines what the principle tells us about nature and life in this academic work He proves that the secrets of our world reside in the quantum information contained in our DNA and genome Discover the inner workings of life and develop a better understanding of a maximum action principle that explains self organization self replication and self evolution He also explores such topics as laws that describe phylogenetic evolution and ontogenetic development little known facts about genetics and evolution including why Darwinian theory facilitates a more dynamic conception of human nature extensions of quantum theory and new foundations of knowledge By challenging the notions of mainstream biology and physics and questioning assumptions about life being a physical rather than a supernatural phenomenon youll stumble upon truths that few others know Get ready to go on a fascinating journey that challenges paradigms and leads you to the Discovery of the Life Organizing Principle

**Punctuated Equilibrium** Stephen Jay GOULD,Stephen Jay Gould,2009-06-30 In 1972 Stephen Jay Gould took the scientific world by storm with his paper on punctuated equilibrium Challenging a core assumption of Darwin s theory of evolution it launched the controversial idea that the majority of species originates in geological moments punctuations and persists in stasis Now thirty five years later Punctuated Equilibrium offers his only book length testament on a theory he fiercely promoted repeatedly refined and tirelessly defended

*Frontiers of Evolutionary Economics* John Foster,J. S. Metcalfe,2003-01-01 This compilation by leading protagonists is a must for a greater understanding of the world we are living in and wanting to see change for the better Gerry Sweeney Prometheus Modern evolutionary economics is now nearly two decades old and in this excellent book a distinguished group of evolutionary economists identify the most important developments and discuss the direction of future research By moving away from traditional concerns with the operation of selection mechanisms towards a preoccupation

with the manner in which the novelty and variety provide fuel for such mechanisms the authors identify a key development in the field Evolutionary economists have been drawn into the modern complexity science literature which attempts to provide an understanding of how and why complex adaptive systems engage in processes of self organization The goal is to provide an integrated analysis of both selection and self organization that is uniquely economic in orientation After a brief overview of the many key achievements and continuing challenges the first part of the book deals with theoretical perspectives discussing institutional change social constructions complexity selection and self selection and the usefulness of theory Part two deals with empirical perspectives and includes discussion of replicator dynamics the measurement of heterogeneity and complexity and modelling organizations as complex adaptive systems This unique book will appeal to evolutionary and industrial economists and policymakers involved with issues of innovation and management scientists **Back To Darwin**

John B. Cobb, 2008-02-04 This book provides a distinctive radical way beyond the quarrels between evolutionary science and Christian belief Leading scientists philosophers and theologians critically discuss the metaphysical assumptions of neo Darwinism and offer concrete ways of broadening mainstream evolutionary theory Their open exchange moderated by veteran process theologian John B Cobb presents a holistic case for evolution that both theists and nontheists can accept Contributors Francisco J Ayala Ian G Barbour Charles Birch Philip Clayton John B Cobb Jr John Greene David Ray Griffin A Y Gunter John F Haught Lynn Margulis Reg Morrison Dorion Sagan Jeffrey Schloss Robert J Valenza Howard J Van Till

Encyclopedia of Ecology Brian D. Fath, 2014-11-03 The groundbreaking Encyclopedia of Ecology provides an authoritative and comprehensive coverage of the complete field of ecology from general to applied It includes over 500 detailed entries structured to provide the user with complete coverage of the core knowledge accessed as intuitively as possible and heavily cross referenced Written by an international team of leading experts this revolutionary encyclopedia will serve as a one stop shop to concise stand alone articles to be used as a point of entry for undergraduate students or as a tool for active researchers looking for the latest information in the field Entries cover a range of topics including Behavioral Ecology Ecological Processes Ecological Modeling Ecological Engineering Ecological Indicators Ecological Informatics Ecosystems Ecotoxicology Evolutionary Ecology General Ecology Global Ecology Human Ecology System Ecology The first reference work to cover all aspects of ecology from basic to applied Over 500 concise stand alone articles are written by prominent leaders in the field Article text is supported by full color photos drawings tables and other visual material Fully indexed and cross referenced with detailed references for further study Writing level is suited to both the expert and non expert Available electronically on ScienceDirect shortly upon publication *Encyclopedia of Evolutionary Biology*, 2016-04-14 Encyclopedia of Evolutionary Biology Four Volume Set is the definitive go to reference in the field of evolutionary biology It provides a fully comprehensive review of the field in an easy to search structure Under the collective leadership of fifteen distinguished section editors it is comprised of articles written by leading experts in the field providing a

full review of the current status of each topic The articles are up to date and fully illustrated with in text references that allow readers to easily access primary literature While all entries are authoritative and valuable to those with advanced understanding of evolutionary biology they are also intended to be accessible to both advanced undergraduate and graduate students Broad topics include the history of evolutionary biology population genetics quantitative genetics speciation life history evolution evolution of sex and mating systems evolutionary biogeography evolutionary developmental biology molecular and genome evolution coevolution phylogenetic methods microbial evolution diversification of plants and fungi diversification of animals and applied evolution Presents fully comprehensive content allowing easy access to fundamental information and links to primary research Contains concise articles by leading experts in the field that ensures current coverage of each topic Provides ancillary learning tools like tables illustrations and multimedia features to assist with the comprehension process

**Evolution From Molecules to Men** D. S. Bendall, 1983 Giving a broad view of biological evolution the topics discussed here range from the history of the development of evolutionary thought through current problems in molecular evolution and the evolution of whole organisms to evolution of behaviour sociobiology and man's place in evolution

Encyclopedia of Bioinformatics and Computational Biology, 2018-08-21 Encyclopedia of Bioinformatics and Computational Biology ABC of Bioinformatics Three Volume Set combines elements of computer science information technology mathematics statistics and biotechnology providing the methodology and in silico solutions to mine biological data and processes The book covers Theory Topics and Applications with a special focus on Integrative omics and Systems Biology The theoretical methodological underpinnings of BCB including phylogeny are covered as are more current areas of focus such as translational bioinformatics cheminformatics and environmental informatics Finally Applications provide guidance for commonly asked questions This major reference work spans basic and cutting edge methodologies authored by leaders in the field providing an invaluable resource for students scientists professionals in research institutes and a broad swath of researchers in biotechnology and the biomedical and pharmaceutical industries Brings together information from computer science information technology mathematics statistics and biotechnology Written and reviewed by leading experts in the field providing a unique and authoritative resource Focuses on the main theoretical and methodological concepts before expanding on specific topics and applications Includes interactive images multimedia tools and crosslinking to further resources and databases

*A Century of Parasitology* John Janovy, Jr., Gerald W. Esch, 2016-03-21 Reviews key areas in ecological medical and molecular parasitology Features essays from some of the world's leading parasitologists Each topic is set in context by featuring a key paper from the Journal of Parasitology over the past 100 years

*Integrated Principles of Zoology* Cleveland P. Hickman, 2008 Emphasizing the principles of evolution and zoological science this best selling text describes the diversity of animal life and the fascinating adaptations that enable animals to inhabit so many ecological niches Featuring high quality illustrations and photographs and an engaging narrative Integrated Principles of Zoology is



considered the standard by which other texts are measured With its traditional organization and comprehensive coverage this text is suitable for one or two semester introductory courses in zoology      *Macroevolution* Emanuele Serrelli, Nathalie Gontier, 2015-02-13 This book is divided in two parts the first of which shows how beyond paleontology and systematics macroevolutionary theories apply key insights from ecology and biogeography developmental biology biophysics molecular phylogenetics and even the sociocultural sciences to explain evolution in deep time In the second part the phenomenon of macroevolution is examined with the help of real life history case studies on the evolution of eukaryotic sex the formation of anatomical form and body plans extinction and speciation events of marine invertebrates hominin evolution and species conservation ethics The book brings together leading experts who explain pivotal concepts such as Punctuated Equilibria Stasis Developmental Constraints Adaptive Radiations Habitat Tracking Turnovers Mass Extinctions Species Sorting Major Transitions Trends and Hierarchies key premises that allow macroevolutionary epistemic frameworks to transcend microevolutionary theories that focus on genetic variation selection migration and fitness Along the way the contributing authors review ongoing debates and current scientific challenges detail new and fascinating scientific tools and techniques that allow us to cross the classic borders between disciplines demonstrate how their theories make it possible to extend the Modern Synthesis present guidelines on how the macroevolutionary field could be further developed and provide a rich view of just how it was that life evolved across time and space In short this book is a must read for active scholars and because the technical aspects are fully explained it is also accessible for non specialists Understanding evolution requires a solid grasp of above population phenomena Species are real biological individuals and abiotic factors impact the future course of evolution Beyond observation when the explanation of macroevolution is the goal we need both evidence and theory that enable us to explain and interpret how life evolves at the grand scale

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