



Second Edition



# Population Genetics and Microevolutionary Theory

Alan R. Templeton



WILEY

# Population Genetics And Microevolutionary Theory

**A. Mark Pollard, Ruth Ann  
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## **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 **Human Population**

**Genetics** John H. Relethford, 2012-02-15 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)

*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 Evolutionary Biology: Exobiology and Evolutionary Mechanisms Pierre Pontarotti, 2013-07-03

This book presents 19 selected contributions to the 16th Evolutionary Biology Meeting which took place in September 2012 in Marseilles The aims of these annual meetings which gather together leading evolutionary biologists and other scientists are to promote the exchange of ideas and to encourage interdisciplinary collaborations The first chapter deals with the history of a great discovery The first experiments on ascidian and sea urchin egg fertilization The remaining contributions are grouped under the following categories Evolutionary biology concepts Exobiology and the origin of life Evolutionary mechanisms Offering an up to date overview of recent findings in the field of evolutionary biology this book is an invaluable source of information for scientists teachers and advanced students *Microsatellite Markers* Ibrokhim Y.

Abdurakhmonov, 2016-11-30 Microsatellite or so called simple sequence repeat SSR markers have been one of the most reliable molecular markers derived from the DNA molecule which were widely and successfully used for more than 25 years in the genetic studies of environmental agricultural and biomedical sciences The objective of this Microsatellite Markers book is to rehighlight and provide some updates on previous and recent utilization of microsatellite markers for various applications in agriculture and medicine which void emerging opinion on full death of microsatellites as useful genetic markers Chapters presented here demonstrate the future benefit of SSRs in many genetic studies as well as disease diagnosis and prognosis **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

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

*Conservation Genetics in the Neotropics* Pedro M. Galetti Jr., 2023-08-29 This book explores how genetics and the new technologies in genomics have been used for conservation of plants and animals in the Neotropics It shows the new perspective for conservation genetics beyond the use of theoretical and methods in genetics at species level and presents how genetics and genomics can be used for assessing communities Conservation genetics and genomics are presented as a helpful field of study for resolving taxonomic uncertainties and hidden biodiversity understanding populations and extinction risk genetic management wildlife forensic genetics assessing biology and molecular ecology assessing communities conservation genomics and the use of conservation biology and genetics in science learning highlighting case studies in the Neotropics Applications of conservation genetics for management or policy decision making planning and implementation of conservation practice in the Neotropics are addressed across chapters This book will interest to researchers and students in conservation genetics and biology conservation interested in the Neotropics Stakeholders and decision makers in

conservation biology may also find this book useful *Biotechnology: Concepts, Methodologies, Tools, and Applications* Management Association, Information Resources, 2019-06-07 Biotechnology can be defined as the manipulation of biological process systems and organisms in the production of various products With applications in a number of fields such as biomedical chemical mechanical and civil engineering research on the development of biologically inspired materials is essential to further advancement Biotechnology Concepts Methodologies Tools and Applications is a vital reference source for the latest research findings on the application of biotechnology in medicine engineering agriculture food production and other areas It also examines the economic impacts of biotechnology use Highlighting a range of topics such as pharmacogenomics biomedical engineering and bioinformatics this multi volume book is ideally designed for engineers pharmacists medical professionals practitioners academicians and researchers interested in the applications of biotechnology

*Research and Applications in Global Supercomputing* Segall, Richard S., Cook, Jeffrey S., Zhang, Qingyu, 2015-01-31 Rapidly generating and processing large amounts of data supercomputers are currently at the leading edge of computing technologies Supercomputers are employed in many different fields establishing them as an integral part of the computational sciences Research and Applications in Global Supercomputing investigates current and emerging research in the field as well as the application of this technology to a variety of areas Highlighting a broad range of concepts this publication is a comprehensive reference source for professionals researchers students and practitioners interested in the various topics pertaining to supercomputing and how this technology can be applied to solve problems in a multitude of disciplines *Advances in Insect Physiology*, 2010-10-27 *Advances in Insect Physiology* publishes volumes containing important comprehensive and in depth reviews on all aspects of insect physiology It is an essential reference source for invertebrate physiologists and neurobiologists entomologists zoologists and insect biochemists First published in 1963 the serial is now edited by Steven Simpson and Jerome Casas to provide an international perspective Contributions from the leading researchers in entomology Discusses physiological diversity in insects Includes in depth reviews with valuable information for a variety of entomology disciplines **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

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**A Companion to Biological Anthropology** Clark Spencer Larsen,2023-03-06 A Companion to Biological Anthropology The discipline of biological anthropology the study of the variation and evolution of human beings and their evolutionary relationships with past and living hominin and primate relatives has undergone enormous growth in recent years Advances in DNA research behavioral anthropology nutrition science and other fields are transforming our understanding of what makes us human A Companion to Biological Anthropology provides a timely and comprehensive account of the foundational concepts historical development current trends and future directions of the discipline Authoritative yet accessible this field defining reference work brings together 37 chapters by established and younger scholars on the biological and evolutionary components of the study of human development The authors discuss all facets of contemporary biological anthropology including systematics and taxonomy population and molecular genetics human biology and functional adaptation early primate evolution paleoanthropology paleopathology bioarchaeology forensic anthropology and paleogenetics Updated and expanded throughout this second edition explores new topics revisits key issues and examines recent innovations and discoveries in biological anthropology such as race and human variation epidemiology and catastrophic disease outbreaks global inequalities migration and health resource access and population growth recent primate behavior research the fossil record of primates and humans and much more A Companion to Biological Anthropology Second Edition is an indispensable guide for researchers and advanced students in biological anthropology geosciences ancient and modern disease bone biology biogeochemistry behavioral ecology forensic anthropology systematics and taxonomy nutritional anthropology and related disciplines

**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 **Handbook of Archaeological Sciences** A. Mark Pollard, Ruth Ann Armitage, Cheryl A. Makarewicz, 2023-02-09 HANDBOOK OF ARCHAEOLOGICAL SCIENCES A modern and comprehensive introduction to methods and techniques in archaeology In the newly revised Second Edition of the Handbook of Archaeological Sciences a team of more than 100 researchers delivers a comprehensive and accessible overview of modern methods used in the archaeological sciences The book covers all relevant approaches to obtaining and analyzing archaeological data including dating methods quaternary paleoenvironments human bioarchaeology biomolecular archaeology and archaeogenetics resource exploitation archaeological prospection and assessing the decay and conservation of specimens Overview chapters introduce readers to the relevance of each area followed by contributions from leading experts that provide detailed technical knowledge and application examples Readers will also find A thorough introduction to human bioarchaeology including hominin evolution and paleopathology The use of biomolecular analysis to characterize past environments Novel approaches to the analysis of archaeological materials that shed new light on early human lifestyles and societies In depth explorations of the statistical and computational methods relevant to archaeology Perfect for graduate and advanced undergraduate students of archaeology the Handbook of Archaeological Sciences will also earn a prominent place in the libraries of researchers and professionals with an interest in the geological biological and genetic basis of archaeological studies **Gene Flow** Wei Wei, C. Neal Stewart Jr., 2021-11-02 Gene flow is a natural process that occurs spontaneously and enables the evolution of life However with the release of genetically modified organisms concerns have focused on introduced foreign transgenes and their dispersal in nature through gene flow This book examines gene flow of transgenes such as herbicide resistance genes with the goal of understanding the factors that may affect the process of gene flow A greater biological understanding is essential to make sound management regulatory decisions when also taking into consideration the processes that happen in conventional plants Monitoring modelling and mitigation are the three most closely related elements of gene flow The book includes both scientific reviews and perspectives on gene flow and experimental case studies including studies of gene flow in soybean and poplar The authors present diverse views and research methodologies to understand transgene flow **Discovery of the Life-Organizing Principle** E.M. Elsheikh, 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      **Reintroduction Biology** John G. Ewen,Doug P. Armstrong,Kevin A. Parker,Philip J.

Seddon,2012-01-30 This book aims to further advance the field of reintroduction biology beyond the considerable progress made since the formation of the IUCN SSC Re introduction Specialist Group Using an issue based framework that purposely avoids a structure based on case studies the book s central theme is advocating a strategic approach to reintroduction where all actions are guided by explicit theoretical frameworks based on clearly defined objectives Issues covered include husbandry and intensive management monitoring and genetic and health management Although taxonomically neutral there is a recognised dominance of bird and mammal studies that reflects the published research in this field The structure and content are designed for use by people wanting to bridge the research management gap such as conservation managers wanting to expand their thinking about reintroduction related decisions or researchers who seek to make useful applied contributions to reintroduction

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