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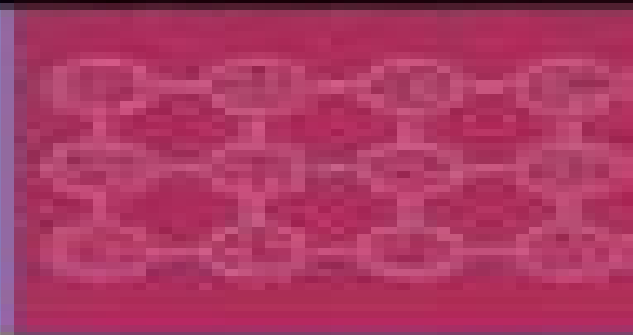
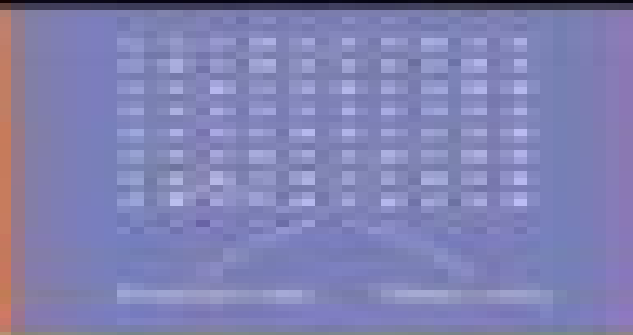
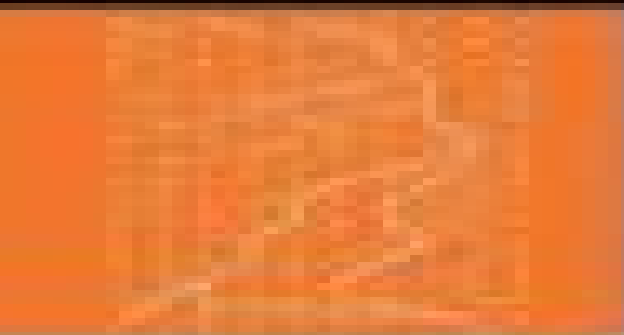
Gene Genealogies, Variation and Evolution

AN APPROACH TO THE EVOLUTION OF GENETIC VARIATION

Second Edition

Michael H. Sutherland

Christian Wolff



Sequence Variation Genealogies And Evolution

Jan Sapp



Sequence Variation Genealogies And Evolution:

Gene Genealogies, Variation and Evolution: A primer in coalescent theory Jotun Hein, Mikkel Schierup, Carsten Wiuf, 2004-12-09 Authored by leading experts this seminal text presents a straightforward and elementary account of coalescent theory which is a central concept in the study of genetic sequence variation observed in a population Rich in examples and illustrations it is ideal for a graduate course in statistics population molecular and medical genetics bioscience and medicine and for students studying the evolution of human population and disease It is also an invaluable reference for bioscientists and statisticians in the pharmaceutical industry and academia Coalescent theory is a central concept in the study of genetic sequence variation that probabilistically describes the genealogy relating the sampled sequences In this text besides fulfilling the glaring need for such a book the authors present this theory in a straightforward and elementary manner and describe the statistical and computational methods used in modelling and analyzing genetic sequence variation Rich in examples and illustrations the book covers basic concepts complications arising from geographical structure and recombination before considering aspects of statistical inference based on these models The book ends with chapters on Gene Mapping which combines sequence variation data with phenotypic data such as disease to define areas of the genome where genes are responsible for the trait and Human Evolution a research area that is experiencing a renaissance due to the enormous amounts of data produced in molecular studies Authored by leading experts this seminal text presents a straightforward and elementary account of coalescent theory which is a central concept in the study of genetic sequence variation observed in a population It is highly suitable for a graduate course in statistics population molecular and medical genetics bioscience and medicine and students studying the evolution of human population and disease and will be an invaluable reference for bioscientists and statisticians in the pharmaceutical industry and academia an excellent and timely book that should appeal to a variety of people in genetics and applied mathematics Professor Montgomery Slatkin Berkeley the authors are outstanding experts in the field and the book is topical and timely Professor David Balding Imperial College Hein Schierup and Wiuf have written the first general book on the coalescent It is an engaging combination of clear mathematical derivation and real data examples Professor Joe Felsenstein University of Washington

Molecular Approaches to Ecology and Evolution R. deSalle, B. Schierwater, 2012-12-06 Four years ago we edited a volume of 36 papers entitled Molecular Approaches to Ecology and Evolution Schierwater et al 1994 in which we attempted to put together a diverse array of papers that demonstrated the impact that the technological revolution of molecular biology has had on the field of evolutionary biology and ecology The present volume borrows from that theme but attempts to focus more sharply on the impact that molecular biology has had on our understanding of different hierarchical levels important in evolutionary and ecological studies Because DNA sequence variation is at the heart of every paper in the present volume we feel it necessary to examine how DNA has affected study at various levels of biological organization The majority of the chapters in

the present volume follow themes established in the earlier volume all chapters by authors in the previous volume are either fully updated or entirely new and expand into areas that we felt were important for a more complete understanding of the impact of DNA technology on ecology and evolution The collection of papers in this volume cover a diverse array of ecological and evolutionary questions and demonstrates the breadth of coverage molecular technology has imparted on modern evolutionary biology There are also a broad range of hierarchical questions approached by the 17 papers in this volume

Biotic Evolution and Environmental Change in Southeast Asia David Gower, Kenneth Johnson, James Richardson, Brian Rosen, Lukas Rüber, Suzanne Williams, 2012-07-19 The flora and fauna of Southeast Asia are exceptionally diverse The region includes several terrestrial biodiversity hotspots and is the principal global hotspot for marine diversity but it also faces the most intense challenges of the current global biodiversity crisis Providing reviews syntheses and results of the latest research into Southeast Asian earth and organismal history this book investigates the history present and future of the fauna and flora of this bio and geodiverse region Leading authorities in the field explore key topics including palaeogeography palaeoclimatology biogeography population genetics and conservation biology illustrating research approaches and themes with spatially taxonomically and methodologically focused case studies The volume also presents methodological advances in population genetics and historical biogeography Exploring the fascinating environmental and biotic histories of Southeast Asia this is an ideal resource for graduate students and researchers as well as environmental NGOs

Colloquium on Variation and Evolution in Plants and Microorganisms--Toward a New Synthesis--50 Years After Stebbins Francisco Jos Ayala, Walter M. Fitch, Michael I. Chegg, 2000 Annotation In 1950 Stebbins and 2000 published Variation and Evolution in Plants which extended the synthetic theory of evolution or the modern synthesis to plants These 17 papers are drawn from a National Academy of Sciences colloquium held in January 2000 on the 50th anniversary of the publication of Stebbins classic Following a Stebbins appreciation talk originally slotted for his own words papers branch into sections on early evolution and the origin of cells virus and bacterial models protocist models having to do with RNA editing population variation and trends and patterns in plant evolution Annotation c Book News Inc Portland OR booknews com

Variation and Evolution in Plants and Microorganisms National Academy of Sciences, 2000-10-11 The present book is intended as a progress report on the synthetic approach to evolution as it applies to the plant kingdom With this simple statement G Ledyard Stebbins formulated the objectives of Variation and Evolution in Plants published in 1950 setting forth for plants what became known as the synthetic theory of evolution or the modern synthesis The pervading conceit of the book was the molding of Darwin's evolution by natural selection within the framework of rapidly advancing genetic knowledge At the time Variation and Evolution in Plants significantly extended the scope of the science of plants Plants with their unique genetic physiological and evolutionary features had all but been left completely out of the synthesis until that point Fifty years later the National Academy of Sciences convened a colloquium to update the advances made by Stebbins This

collection of 17 papers marks the 50th anniversary of the publication of Stebbins classic *Organized into five sections the book covers early evolution and the origin of cells virus and bacterial models protocist models population variation and trends and patterns in plant evolution* **Microbial Phylogeny and Evolution** Jan Sapp, 2005-03-03 The birth of bacterial genomics since the mid 1990s brought with it several conceptual modifications and wholly new controversies Working beyond the scope of the neo Darwinian evolutionary synthesis a group of leading microbial evolutionists addresses the following and related issues often with markedly varied viewpoints Did the eukaryotic nucleus cytoskeleton and cilia also originate from symbiosis Do the current scenarios about the origin of mitochondria and plastids require revision What is the extent of lateral gene transfer between species among bacteria Does the rDNA phylogenetic tree still stand in the age of genomics Is the course of the first 3 billion years of evolution even knowable **Ancient DNA** Bernd Herrmann, Susanne Hummel, 2012-12-06 Ancient DNA refers to DNA which can be recovered and analyzed from clinical museum archaeological and paleontological specimens Ancient DNA ranges in age from less than 100 years to tens of millions of years The study of ancient DNA is a young field but it has been revolutionized by the application of polymerase chain reaction technology and interest is growing very rapidly Fields as diverse as evolution anthropology medicine agriculture and even law enforcement have quickly found applications in the recovery of ancient DNA This book contains contributions from many of the first generation researchers who pioneered the development and application of ancient DNA methods Their chapters present the protocols and precautions which have resulted in the remarkable results obtained in recent years The range of subjects reflects the wide diversity of applications that are emerging in research on ancient DNA including the study of DNA to analyze kinship recovery of DNA from organisms trapped in amber ancient DNA from human remains preserved in a variety of locations and conditions DNA recovered from herbarium and museum specimens and DNA isolated from ancient plant seeds or compression fossils Ancient DNA will serve as a valuable source of information ideas and protocols for anyone interested in this extraordinary field

Molecular Ecology And Evolution: The Organismal Side: Selected Writings From The Avise Laboratory John C Avise, 2010-08-18 This volume is a reprinted collection of 69 classics from the Avise laboratory chosen to illustrate a trademark brand of research that harnesses molecular markers to scientific studies of natural history and evolution in the wild Spanning the early 1970s through the late 2000s these articles trace how the author and his colleagues have used molecular genetics techniques to address multifarious conceptual topics in genetics ecology and evolution in a fascinating menagerie of creatures with oft peculiar lifestyles The organisms described in this volume range from blind cavefish to male pregnant pipefishes and sea spiders from clonal armadillos to natal homing marine turtles from hermaphroditic sea snails to hybridizing monkeys and tree frogs from clonal marine sponges to pseudohermaphroditic mollusks to introgressing oysters and from endangered pocket gophers terrapins and sparrows to unisexual all female fish species to living fossil horseshoe crabs and even to a strange little fish that routinely mates with itself The conceptual and molecular topics addressed in this

volume are also universal ranging from punctuated equilibrium to coalescent theory to the need for greater standardization in taxonomy from cytonuclear disequilibrium statistics to the ideas of speciation duration and sympatric speciation from historical population demography to phylogenetic reconstructions of males sexual ornaments from the population genetic consequences of inbreeding to Pleistocene effects on phylogeography and from the molecular underpinnings of null alleles to the notion of clustered mutations that arise in groups to compelling empirical evidence for the unanticipated processes of gene conversion and concerted evolution in animal mitochondrial DNA Overall this collection includes many of the best most influential sometimes controversial occasionally provocative always intriguing or otherwise entertaining publications to have emerged from the Avise laboratory over the last four decades Thus this book conveys through the eyes of one of the field's longstanding pioneers what the organismal side of molecular ecology and evolution really means Evolutionary Biology Michael T. Clegg, Max K. Hecht, Ross J. MacIntyre, 2012-12-06 After volume 33 this book series was replaced by the journal Evolutionary Biology Please visit www.springer.com/11692 for further information The nature of science is to work on the boundaries between the known and the unknown These boundaries shift as new methods are developed and as new concepts are elaborated e.g. the theory of the gene or more recently the coalescence framework in population genetics These tools allow us to address questions that were previously outside the realm of science and as a consequence the boundary between the knowable and unknowable has shifted A study of limits should reveal and clarify the boundaries and make sharper the set of questions This book examines and analyzes these new limits as they are applied to evolutionary biology and population genetics It does this by framing the analysis within four major classes of problems establishing the fact of evolution understanding the evolutionary pathways that led to today's biological world mechanisms of evolutionary change e.g. models of social behavior sexual selection macro evolution and finally prediction Computational and Evolutionary Analysis of HIV Molecular Sequences Allen G. Rodrigo, Gerald H. Learn Jr., 2007-05-08 Computational and Evolutionary Analysis of HIV Molecular Sequences is for all researchers interested in HIV research even those who only have a nodding acquaintance with computational biology or those who are familiar with some but not all aspects of the field HIV research is unusual in that it brings together scientists from a wide range of disciplines clinicians pathologists immunologists epidemiologists virologists computational biologists structural biologists evolutionary biologists statisticians and mathematicians This book seeks to bridge the gap between these groups in both subject matter and terminology Focused largely on HIV genetic variation Computational and Evolutionary Analysis of HIV Molecular Sequences covers such issues as sampling and processing sequences population genetics phylogenetics and drug targets Avian Molecular Evolution and Systematics David P. Mindell, 1997-05-13 The use of DNA and other biological macromolecules has revolutionized systematic studies of evolutionary history Methods that use sequences of nucleotides and amino acids are now routinely used as data for addressing evolutionary questions that although not new questions have defied description and analysis The world renowned

contributors use these new methods to unravel particular aspects of the evolutionary history of birds Avian Molecular Evolution and Systematics presents an overview of the theory and application of molecular systematics focusing on the phylogeny and evolutionary biology of birds New developing areas in the phylogeny of birds at multiple taxonomic areas are covered as well as methods of analysis for molecular data evolutionary genetics within and between bird populations and the application of molecular based phylogenies to broader questions of evolution Contains authoritative contributions from leading researchers Discusses the utility of different molecular markers for questions of avian evolution involving populations and higher level taxa Applies molecular based phylogenies of birds and molecular population genetics data to broad questions of organismal and molecular evolution Compares and contrasts molecular and morphological data sets

Variation in the Human Genome Derek J. Chadwick, Gail Cardew, 2008-04-30 The mapping of human genes is proceeding rapidly Genes associated with specific inherited diseases are being identified often providing insight into the molecular cause of the disease At the moment however little consideration is being given to the variation present in different human populations Variation in the Human Genome discusses methods of analysing population genetic data and how contemporary genetic heterogeneity arises during the evolution and migration of human populations Specific disorders such as cystic fibrosis beta thalassaemia fragile X phenylketonuria and tumour development susceptibility are used to illustrate this genetic variability and mechanisms of gene mutation and evolution Documenting Domestication Melinda A. Zeder, 2006-06-20 A genetic revolution has transformed the study of the domestication of plants and animals Documenting Domestication presents the best research and resolves issues that had been intractable in the past Richard I Ford University of Michigan *Evolutionary Biology* Pierre Pontarotti, 2016-09-20 This book presents selected contributions to the 19th Evolutionary Biology Meeting which took place in September 2015 in Marseille It consists of 22 chapters which are grouped in four sections Convergent Evolution Evolution of Complex Traits Concepts Methods The annual Evolutionary Biology Meetings in Marseille serve to gather leading evolutionary biologists and other scientists using evolutionary biology concepts e g for medical research to promote the exchange of ideas and to encourage interdisciplinary collaborations 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 *Molecular Genetic Approaches in Conservation* Thomas Bates Smith, Robert K. Wayne, 1996 Molecular techniques are proving invaluable in determining the phylogenetic status of potentially endangered species for investigating mechanisms of speciation and for measuring the genetic structure of populations It is increasingly important for ecologists and evolutionary and conservation biologists to understand and use such molecular techniques but most workers in these areas have not been trained in molecular biology This book lays out the principles and basic techniques for the molecular tools appropriate for addressing issues in conservation and it presents case studies showing how these tools have been used successfully in conservation biology Examples include the genetic analysis of population

structure various uses of DNA in conservation genetics and estimation of migration parameters from genetic data Wildlife managers as well as researchers in these areas will find this a valuable book **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

Zoological Record ,2003 *Human Mitochondrial DNA and the Evolution of Homo sapiens* Hans-Jürgen Bandelt,Martin Richards,Vincent Macaulay,2006-09-05 Mitochondrial DNA is one of the most explored genetic systems because of what it can tell us about the human past This volume takes a unique perspective presenting the disparate strands that must be tied together to exploit this system From molecular biology to anthropology statistics to ancient DNA this first volume of three presents the global picture of human mitochondrial DNA variation It takes a critical look at the field flagging the problems as well as the successes and always placing the mitochondrial phylogeny centre stage Plant Molecular Evolution J.J. Doyle,Brandon S. Gaut,2012-12-06 Plant molecular biology has produced an ever increasing flood of data about genes and genomes Evolutionary biology and systematics provides the context for synthesizing this information This book brings together contributions from evolutionary biologists systematists developmental geneticists biochemists and others working on diverse aspects of plant biology whose work touches to varying degrees on plant molecular evolution The book is organized in three parts the first of which introduces broad topics in evolutionary biology and summarizes advances in plant molecular phylogenetics with emphasis on model plant systems The second segment presents a series of case studies of gene family evolution while the third gives overviews of the evolution of important plant processes such as disease resistance nodulation hybridization transposable elements and genome evolution and polyploidy **Genetics of Populations** ,

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