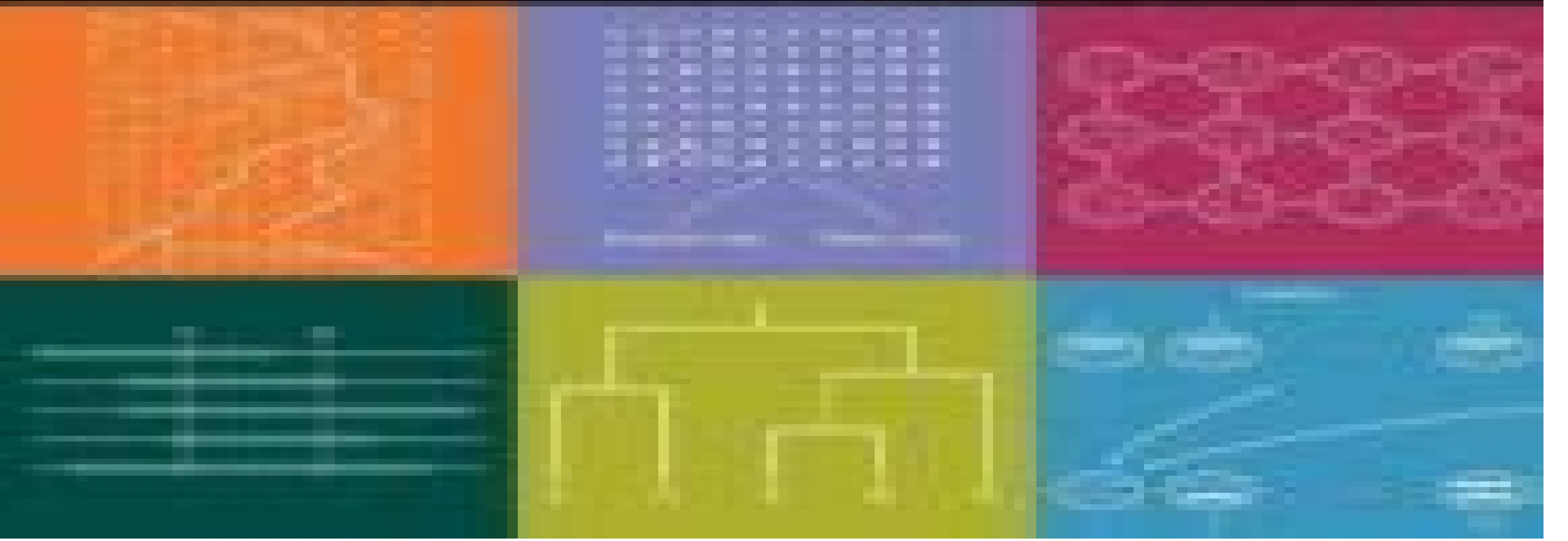
Gene Genealogies, Variation and Evolution

A Primer in Coalescent Theory

Jotun Hein
Michael H. Schierup
Carsten Wiuf



Sequence Variation Genealogies And Evolution

Bernd Herrmann,Susanne Hummel

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 ai 1994 in which we attempted to put to gether a diverse array of papers that demonstrated the impact that the technologi cal revolution ofmolecular biology has had on the field ofevolutionary biologyand 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 dif ferent hierarchical levels important in evolutionary and ecological studies Because DNA sequence variation is at the heart ofeverypaper 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 es tablished 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 impor tant for a more complete understanding of the impact of DNA technology on ecol ogy 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 tech nology 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 **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 **Encyclopedia of Ecology** Brian D. Fath,2018-08-23 Encyclopedia of Ecology Second Edition Four Volume Set continues the acclaimed work of the previous edition published in 2008 It covers all scales of biological organization from organisms to populations to communities and ecosystems Laboratory field simulation modelling and theoretical approaches are presented to show how living systems sustain structure and function in space and time New areas of focus include micro and macro scales molecular and genetic ecology and global ecology e g climate change earth transformations ecosystem services and the food water energy nexus are included In addition new international experts in ecology contribute on a variety of topics Offers the most broad ranging and comprehensive resource available in the field of ecology Provides foundational content and suggests further reading Incorporates the expertise of over 500 outstanding investigators in the field of ecology including top young scientists with both research and teaching experience Includes multimedia resources such as an Interactive Map Viewer and links to a CSDMS Community Surface Dynamics Modeling System an open source platform for modelers to share and link models dealing with earth system processes Cumulated Index Medicus ,1993 **Molecular Evolution of the Major Histocompatibility Complex** Jan Klein,Dagmar Klein,2013-06-29 From molecules to populations and back In biology the

most vigorous organisms often ensue from a union of two disparate pure lines In science too laws of hybrid vigor seem to operate at the interface between two disciplines an interface that often proves to be fertile ground for germinating concepts and new outlooks The fringes of research into the major histocompatibility complex Mhc have provided such an interface several times in the past and the encounters have invigorated fields such as transplantation biology cellular immunology and immunogenetics In the last few years a new interface has been emerging between Mhc and evolutionary genetics and particularly the branch of evolutionary genetics dealing with molecular evolution Mhc research relies upon molecular evolutionary genetics with its grand superstructure of mathematical formulations to come to grips with the events leading to and maintaining the Mhc polymorphism Without the armament of rigorous statistical procedures developed by evolutionary geneticists the intricate relationships among Mhc genes cannot be resolved It will undoubtedly be a molecular geneticist who is the final arbiter in the dispute concerning the nature of the selection pressure molding the Mhc genes And it is doubtful whether the true function of Mhc can ever be comprehended without the vantage point afforded by the elucidation of its evolutionary history **Ecological Genetics** Andrew Lowe,Stephen Harris,Paul Ashton,2009-04-01 Ecological Genetics addresses the fundamental problems of which of the many molecular markers should be used and how the resulting data should be analysed in clear accessible language suitable for upper level undergraduates through to research level professionals A very accessible straightforward text to deal with this difficult topic applying modern molecular techniques to ecological processes Written by active researchers and teachers within the field There will be an accompanying web site managed by the authors comprising of worked examples test data sets and hyperlinks to relevant web pages *Microbial Phylogeny and Evolution* Jan Sapp,2005-03-03 The birth of bacterial genomics since the mid 1990s brought withit 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 orginate from symbiosis Do the current scenarios about he 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

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

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

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 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 *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 *Probability Models for DNA Sequence Evolution* Rick Durrett,2013-03-09 Our basic question is Given a collection of DNA sequences what underlying forces are responsible for the observed patterns of variability To approach this question we introduce and analyze a number of probability models the Wright Fisher model the coalescent the infinite alleles model and the infinite sites model We study the complications that come from nonconstant population size recombination population subdivision and three forms of natural selection directional selection balancing selection and background selection These theoretical results set the stage for the investigation of various statistical tests to detect departures from neutral evolution The final chapter studies the evolution of whole genomes by chromosomal inversions reciprocal translocations and genome duplication Throughout the book the theory is developed in close connection with data from more than 60 experimental studies from the biology literature that illustrate the use of these results This book is written for mathematicians and for biologists alike We assume no previous knowledge of concepts from biology and only a basic knowledge of probability a one semester undergraduate course and some familiarity with Markov chains and Poisson processes Rick Durrett received his Ph D in operations research from Stanford University in 1976 He taught in the UCLA mathematics department before coming to Cornell in 1985 He is the author of six books and 125 research papers and is the academic father of more than 30 Ph D students His current interests are the use of probability models in genetics and ecology and decreasing the mean and variance of his golf **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 *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 Evolutionary Genetics Charles W. Fox,Jason B. Wolf,2006-04-27 Charles Fox and Jason Wolf have brought together leading researchers to produce a cutting edge primer introducing readers to the major concepts in modern evolutionary genetics This book spans the continuum of scale from studies of DNA sequence evolution through proteins and development to multivariate phenotypic evolution and the continuum of time from ancient events that lead to current species diversity to the rapid evolution seen over relatively short time scales in experimental evolution studies Chapters are accessible to an audience lacking extensive background in evolutionaryy genetics but also current and in depth enough to be of value to established researchers in evolution biology **Zoological Record** ,2003

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