



Selective Sweep

**Rosie S. Hails, John E. Beringer, H.
Charles J. Godfray**



Selective Sweep:

Selective Sweep Dmitry I. Nurminsky, 2007-07-16 Selective Sweep deals with the theory and practice of detection of recent adaptive evolution at the genomic level from the patterns of DNA polymorphism Recent advances in genomic sequencing provide the background for analysis of polymorphic sites in large chromosomal regions or even in whole genome thus providing the tool for effective identification of loci that are under strong pressure of positive selection For this reason the studies of selective sweep which formerly were of interest mostly to evolutionists have become widely recognized and appreciated by the large biological community involved in identification of the targets of selection during speciation host pathogen interactions and resistance to chemical agents

Phylogenomics Rob DeSalle, Michael Tessler, Jeffrey Rosenfeld, 2020-08-18 Phylogenomics A Primer Second Edition is for advanced undergraduate and graduate biology students studying molecular biology comparative biology evolution genomics and biodiversity This book explains the essential concepts underlying the storage and manipulation of genomics level data construction of phylogenetic trees population genetics natural selection the tree of life DNA barcoding and metagenomics The inclusion of problem solving exercises in each chapter provides students with a solid grasp of the important molecular and evolutionary questions facing modern biologists as well as the tools needed to answer them

Mathematical Properties of Population-Genetic Statistics Noah A. Rosenberg, 2025-05-20 A powerful new approach to interpreting population genetic data in evolution and ecology Population genetics uses statistical analysis to catalog genetic variation among populations and species Summary statistics computed from allele frequencies mathematical functions that measure features of genetic similarity and diversity are key to this global effort Yet despite their widespread use in evolutionary biology ecology and conservation biology their mathematical properties have largely been overlooked This book shows how to use the mathematical bounds on summary statistics to make better interpretations of population genetic data Noah Rosenberg discusses how the behavior of these statistics depends not only on the biology of the populations they seek to describe but also on the mathematical properties of the functions used to compute them properties that produce constraints on the values of the statistics and influence their interpretation Focusing on the concept of homozygosity a quadratic function of allele frequencies in a population he demonstrates how to account for mathematical constraints when measuring genetic similarity and diversity Rosenberg illustrates the results using examples from empirical data and shares strategies that readers can use to apply this mathematical perspective to different kinds of summary statistics including those for measuring biodiversity in ecological communities Drawing inspiration from Charles Darwin who marveled at evolution's endless forms most beautiful and most wonderful this book presents a groundbreaking approach to the study of genetic variation It is sure to stimulate new research in population biology and deeper thinking about the meaning and interpretation of essential measurements of the world's genomes

Discovering Biomolecular Mechanisms with Computational Biology Frank Eisenhaber, 2007-03-20 This anthology presents critical reviews of

methods and high impact applications in computational biology that lead to results that non bioinformaticians must also know to design efficient experimental research plans Discovering Biomolecular Mechanisms with Computational Biology explores the methodology of translating sequence strings into biological knowledge and considers exemplary groundbreaking results such as unexpected enzyme discoveries This book also summarizes non trivial theoretical predictions for regulatory and metabolic networks that have received experimental confirmation **Genomics** Supratim Choudhuri,David B.

Carlson,2008-10-09 This unique new text delivers a solid foundation for understanding the role of genomics in human health and in advances that promise to help improve the quality of human life Unlike other works that focus mainly on toxicogenomic techniques Genomics presents a thorough overview of the field in four major sections 1 fundamentals of genes and geno Ancestors in Our Genome Eugene E. Harris (Professor),2015 In 2001 scientists were finally able to determine the full human genome sequence and with the discovery began a genomic voyage back in time Since then we have sequenced the full genomes of a number of mankind s primate relatives at a remarkable rate The genomes of the common chimpanzee 2005 and bonobo 2012 orangutan 2011 gorilla 2012 and macaque monkey 2007 have already been identified and the determination of other primate genomes is well underway Researchers are beginning to unravel our full genomic history comparing it with closely related species to answer age old questions about how and when we evolved For the first time we are finding our own ancestors in our genome and are thereby gleaning new information about our evolutionary past In Ancestors in Our Genome molecular anthropologist Eugene E Harris presents us with a complete and up to date account of the evolution of the human genome and our species Written from the perspective of population genetics and in simple terms the book traces human origins back to their source among our earliest human ancestors and explains many of the most intriguing questions that genome scientists are currently working to answer For example what does the high level of discordance among the gene trees of humans and the African great apes tell us about our respective separations from our common ancestor Was our separation from the apes fast or slow and when and why did it occur Where when and how did our modern species evolve How do we search across genomes to find the genomic underpinnings of our large and complex brains and language abilities How can we find the genomic bases for life at high altitudes for lactose tolerance resistance to disease and for our different skin pigmentations How and when did we interbreed with Neandertals and the recently discovered ancient Denisovans of Asia Harris draws upon extensive experience researching primate evolution in order to deliver a lively and thorough history of human evolution Ancestors in Our Genome is the most complete discussion of our current understanding of the human genome available **Plant Biotechnology and Genetics for Sustainable Agriculture and Global Food Security** Galal Bakr Anis,Yinglong Chen,Baohong Zhang,2024-09-12 According to the World Food Programme 135 million suffer from acute hunger largely due to man made conflicts climate change and economic downturns The COVID 19 pandemic could now double that number putting an additional 130 million people at risk of suffering with acute hunger

Moreover food insecurity and low dietary quality cause huge public health problems Malnutrition is responsible for physical and mental development impairments various infectious diseases and unacceptably high numbers of premature deaths Since the Green Revolution a constant increase in crop productivity have experienced however there is concern that yield improvement is not enough Current rate of annual yield increases for major crops ranges between 0.8-1.2 % which needs to be doubled to feed the ever increasing human population The classical breeding techniques contributed toward the development of superior crop varieties which helped in achieving food security for ever increasing human population However with the passage of time these classical breeding approaches are lagging to meet global food requirements and scientists are working on novel plant breeding techniques NPBTs and other breakthrough agricultural techniques to reduce hunger Recently OMICs genome wide association studies GWAS QTL mapping Next Generation Sequencing NGS and genome editing GE approaches etc have proven to be powerful tools that we have at our disposal to overcome substantial obstacles in the way of efficiency and productivity of current agricultural practices In addition recently there has been a rapid development of online forums methods protocols and application strategies for genome based techniques and their applications for crop improvement

The Cradle of Language Rudolf Botha, Chris Knight, 2009-04-30 This book is the first to focus on the African origins of human language It explores the origins of language and culture 250 000-150 000 years ago when modern humans evolved in Africa Scholars from around the world address the fossil genetic and archaeological evidence and critically examine the ways it has been interpreted The book also considers parallel developments among Europe's Neanderthals and the contrasting outcomes for the two species Following an extensive introduction contextualizing and linking the book's topics and approaches fifteen chapters bring together many of the most significant recent findings and developments in modern human origins research The fields represented by the authors include genetics biology behavioural ecology linguistics archaeology cognitive science and anthropology

A Primer of Molecular Population Genetics Asher D. Cutter, 2019 What are the genomic signatures of adaptations in DNA How often does natural selection dictate changes to DNA How does the ebb and flow in the abundance of individuals over time get marked onto chromosomes to record genetic history Molecular population genetics seeks to answer such questions by explaining genetic variation and molecular evolution from micro evolutionary principles It provides a way to learn about how evolution works and how it shapes species by incorporating molecular details of DNA as the heritable material It enables us to understand the logic of how mutations originate change in abundance in populations and become fixed as DNA sequence divergence between species With the revolutionary advances in genomic data acquisition understanding molecular population genetics is now a fundamental requirement for today's life scientists These concepts apply in analysis of personal genomics genome wide association studies landscape and conservation genetics forensics molecular anthropology and selection scans This book introduces in an accessible way the bare essentials of the theory and practice of molecular population genetics

Biology , Population

Genetics Matthew B. Hamilton, 2011-09-23 This book aims to make population genetics approachable logical and easily understood To achieve these goals the book's design emphasizes well explained introductions to key principles and predictions These are augmented with case studies as well as illustrations along with introductions to classical hypotheses and debates Pedagogical features in the text include Interact boxes that guide readers step by step through computer simulations using public domain software Math boxes that fully explain mathematical derivations Methods boxes that give insight into the use of actual genetic data Numerous Problem boxes are integrated into the text to reinforce concepts as they are encountered Dedicated website at www.wiley.com/go/hamiltongenetics This text also offers a highly accessible introduction to coalescent theory the major conceptual advance in population genetics of the last two decades

Phylogeography and Population Genetics in Crustacea Christoph Held, Stefan Koenemann, Christoph D. Schubart, 2016-04-19 Recently technological progress and the rise of DNA barcoding efforts have led to a significant increase in the availability of molecular datasets on intraspecific variability Carcinologists and other organismal biologists who want to use molecular tools to investigate patterns on the scale of populations face a bewildering variety of genetic m Genetics of Populations , *Conservation and the Genomics of Populations* Fred W. Allendorf, W. Chris Funk, Sally N. Aitken, Margaret Byrne, Gordon Luikart, 2022-02-10 The relentless loss of biodiversity is among the greatest problems facing the world today The third edition of this established textbook provides an updated and comprehensive overview of the essential background concepts and tools required to understand how genetics can be used to conserve species reduce threat of extinction and manage species of ecological or commercial importance This edition is thoroughly revised to reflect the major contribution of genomics to conservation of populations and species It includes two new chapters Genetic Monitoring and a final Conservation Genetics in Practice chapter that addresses the role of science and policy in conservation genetics New genomic techniques and statistical analyses are crucial tools for the conservation geneticist This accessible and authoritative textbook provides an essential toolkit grounded in population genetics theory coupled with basic and applied research examples from plants animals and microbes The book examines genetic and phenotypic variation in natural populations the principles and mechanisms of evolutionary change evolutionary response to anthropogenic change and applications in conservation and management *Conservation and the Genomics of Populations* helps demystify genetics and genomics for conservation practitioners and early career scientists so that population genetic theory and new genomic data can help raise the bar in conserving biodiversity in the most critical 20 year period in the history of life on Earth It is aimed at a global market of applied population geneticists conservation practitioners and natural resource managers working for wildlife and habitat management agencies It will be of particular relevance and use to upper undergraduate and graduate students taking courses in conservation biology conservation genetics and wildlife management Routledge Handbook of Sport and Exercise Systems Genetics J. Timothy Lightfoot, Monica Hubal, Stephen Roth, 2019-03-14 Technological advances over the last

two decades have placed genetic research at the forefront of sport and exercise science. It provides potential answers to some of contemporary sport and exercise's defining issues and throws up some of the area's most challenging ethical questions but to date it has rested on a fragmented and disparate literature base. The Routledge Handbook of Sport and Exercise Systems Genetics constitutes the most authoritative and comprehensive reference in this critical area of study, consolidating knowledge and providing a framework for interpreting future research findings. Taking an approach which covers single gene variations through genomics, epigenetics and proteomics to environmental and dietary influences on genetic mechanisms, the book is divided into seven sections. It examines state of the art genetic methods, applies its approach to physical activity, exercise, endurance, muscle strength and sports performance, and discusses the ethical considerations associated with genetic research in sport and exercise. Made up of contributions from some of the world's leading sport and exercise scientists and including chapters on important topical issues such as gene doping, gender testing, predicting sport performance and injury risk, and using genetic information to inform physical activity and health debates, the handbook is a vital addition to the sport and exercise literature. It is an important reference for any upper level student, researcher or practitioner working in the genetics of sport and exercise or exercise physiology and crucial reading for any social scientist interested in the ethics of sport.

In the Light of Evolution National Academy of Sciences, 2017-01-01 Biodiversity, the genetic variety of life, is an exuberant product of the evolutionary past, a vast human supportive resource, aesthetic, intellectual and material of the present, and a rich legacy to cherish and preserve for the future. Two urgent challenges and opportunities for 21st century science are to gain deeper insights into the evolutionary processes that foster biotic diversity and to translate that understanding into workable solutions for the regional and global crises that biodiversity currently faces. A grasp of evolutionary principles and processes is important in other societal arenas as well, such as education, medicine, sociology and other applied fields including agriculture, pharmacology and biotechnology. The ramifications of evolutionary thought also extend into learned realms traditionally reserved for philosophy and religion. The central goal of the *In the Light of Evolution* (ILE) series is to promote the evolutionary sciences through state of the art colloquia in the series of Arthur M. Sackler colloquia sponsored by the National Academy of Sciences and their published proceedings. Each installment explores evolutionary perspectives on a particular biological topic that is scientifically intriguing but also has special relevance to contemporary societal issues or challenges. This tenth and final edition of the *In the Light of Evolution* series focuses on recent developments in phylogeographic research and their relevance to past accomplishments and future research directions.

Darwinian Detectives Norman A. Johnson, 2007-07-06 Biology is often viewed today as a bipartisan field with molecular level genetics guiding us into the future and natural history, including ecology, evolution and conservation biology, chaining us to a descriptive scientific past. In *Darwinian Detectives*, Norman Johnson bridges this divide, revealing how the tried and true tools of natural history make sense of the newest genomic discoveries. Molecular scientists exploring newly

sequenced genomes have stumbled upon quite a few surprises including that only one to ten percent of the genetic material of animals actually codes for genes What does the remaining 90 99% of the genome do Why do some organisms have a much lower genome size than their close relatives What were the genetic changes that were associated with us becoming human As molecular biologists uncover these and other new mysteries evolutionary geneticists are searching for answers to such questions Norman Johnson captures the excitement of the hunt for our own genetic history Through lively anecdotes he explores how researchers detect natural selection acting on genes and what this genetic information tells us about human origins

Host Adaptation, Virulence, and Evolution Javid Ahmad Parray,Niraj Singh,Wen-Jun Li,2025-02-24 Microbial Genomics Host Adaptation Virulence and Evolution covers different aspects of microbial genomics metagenomics and functional studies of microbes that have provided a significant understanding of microbial host interactions virulence function host adaptation mechanisms including microbial evolution Microbial Genomics Host Adaptation virulence and Evolution is a comprehensive source on the latest updates and applications of microbial genomics information to understand the plant microbe interaction host adaptation virulence nature of the infectious pathogen microbial evolution host pathogen interactions contribute to shaping the genetic diversity of both organisms Sections include an introduction to Microbial Genomics followed by sections on Plant Microbiome Genome Editing Prospecting and Approaches Microbial virulanse and disease incidence The final section of the book covers Microbial Genomics and evolutionary concepts Microbial Genomics Host Adaptation virulence and Evolution is a valuable resource for faculty members researchers and undergraduate and postgraduate students at universities medical research labs industries and government agencies that are interested in the microbial science specific to the microbial genome virulence function of pathogenic microbes host adaptation evolution of microbes and all other disciplines related to molecular microbiology Presents the latest developments and progress on microbial genome and metagenome research and findings Assesses the advancements in the study of microbial virulence gene function adaptation and infectious pathogen evolution Provides insights about the progress and prospect of microbial genome editing

Population Genomics Om P. Rajora,2019-01-07 Population genomics has revolutionized various disciplines of biology including population evolutionary ecological and conservation genetics plant and animal breeding human health medicine and pharmacology by allowing to address novel and long standing questions with unprecedented power and accuracy It employs large scale or genome wide genetic information and bioinformatics to address various fundamental and applied aspects in biology and related disciplines and provides a comprehensive genome wide perspective and new insights that were not possible before These advances have become possible due to the development of new and low cost sequencing and genotyping technologies and novel statistical approaches and software bioinformatics tools and models Population genomics is tremendously advancing our understanding the roles of evolutionary processes such as mutation genetic drift gene flow and natural selection in shaping up genetic variation at individualloci and across the genome and

populations improving the assessment of population genetic parameters or processes such as adaptive evolution effective population size gene flow admixture inbreeding and outbreeding depression demography and biogeography resolving evolutionary histories and phylogenetic relationships of extant ancient and extinct species understanding the genomic basis of fitness adaptation speciation complex ecological and economically important traits and disease and insect resistance facilitating forensics genetic medicine and pharmacology delineating conservation genetic units and understanding the genetic effects of resource management practices and assisting conservation and sustainable management of genetic resources This Population Genomics book discusses the concepts approaches applications and promises of population genomics in addressing most of the above fundamental and applied crucial aspects in a variety of organisms from microorganisms to humans The book provides insights into a range of emerging population genomics topics including population epigenomics landscape genomics seascape genomics paleogenomics ecological and evolutionary genomics biogeography demography speciation admixture colonization and invasion genomic selection and plant and animal domestication This book fills a vacuum in the field and is expected to become a primary reference in Population Genomics world wide

Genes in the Environment Rosie S. Hails, John E. Beringer, H. Charles J. Godfray, 2001-08 *Genes in the Environment* presents the recent research in the exciting and rapidly developing field of molecular genetic and modelling techniques These techniques central to ecology provide valuable new tools for addressing complex ecological questions and considerable insights into our understanding of the dynamics of populations and communities A diverse range of topics is covered including community dynamics in soils and water gene flow and spatial dynamics and the evolution of the pathogenic and symbiotic relationships Organisms studied range from bacteria viruses and fungi to insects plants and fish

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