

Neutral Theory of Molecular Evolution

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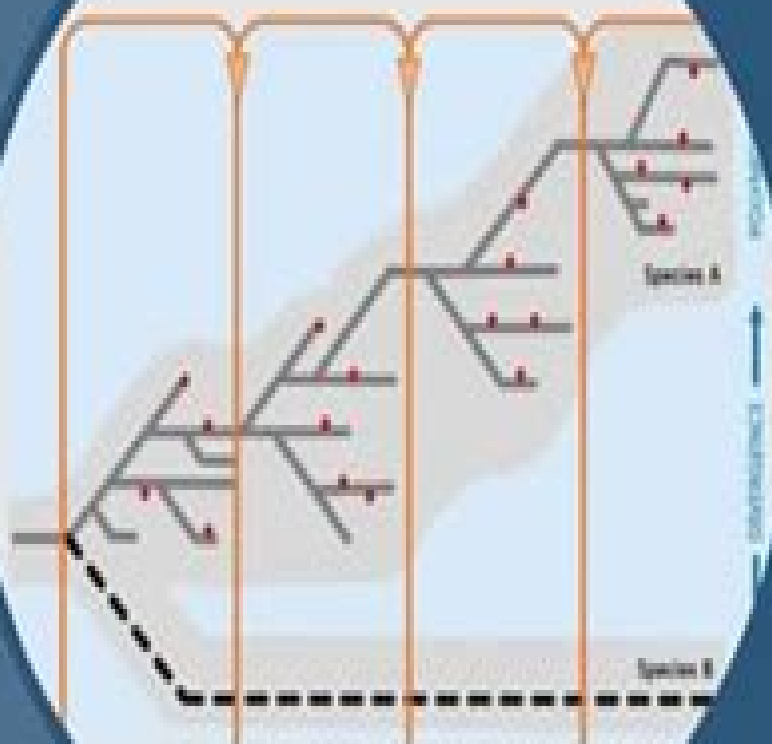
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Neutral Theory Of Molecular Evolution

Glenn-Peter Sætre, Mark Ravinet



Neutral Theory Of Molecular Evolution:

The Neutral Theory of Molecular Evolution Motoo Kimura, 1983 This book is the first comprehensive treatment of this subject Population Genetics, Molecular Evolution, and the Neutral Theory Motoo Kimura, 1994 One of this century's leading evolutionary biologists Motoo Kimura revolutionized the field with his random drift theory of molecular evolution the neutral theory and his groundbreaking theoretical work in population genetics This volume collects 57 of Kimura's most important papers and covers forty years of his diverse and original contributions to our understanding of how genetic variation affects evolutionary change Kimura's neutral theory first presented in 1968 challenged the notion that natural selection was the sole directive force in evolution Arguing that mutations and random drift account for variations at the level of DNA and amino acids Kimura advanced a theory of evolutionary change that was strongly challenged at first and that eventually earned the respect and interest of evolutionary biologists throughout the world This volume includes the seminal papers on the neutral theory as well as many others that cover such topics as population structure variable selection intensity the genetics of quantitative characters inbreeding systems and reversibility of changes by random drift Background essays by Naoyuki Takahata examine Kimura's work in relation to its effects and recent developments in each area Neutral Theory of Molecular Evolution Motoo Kimura, 1985-02 *The Origins of the neutral theory of molecular evolution* Michael Dietrich, 1994 **The Neutral Theory of Molecular Evolution** Motoo Kimura, 1985-01-10 Motoo Kimura as founder of the neutral theory is uniquely placed to write this book He first proposed the theory in 1968 to explain the unexpectedly high rate of evolutionary change and very large amount of intraspecific variability at the molecular level that had been uncovered by new techniques in molecular biology The theory which asserts that the great majority of evolutionary changes at the molecular level are caused not by Darwinian selection but by random drift of selectively neutral mutants has caused controversy ever since This book is the first comprehensive treatment of this subject and the author synthesises a wealth of material ranging from a historical perspective through recent molecular discoveries to sophisticated mathematical arguments all presented in a most lucid manner My Thoughts on Biological Evolution Motoo Kimura, 2020-07-29 This book written by Motoo Kimura 1924-94 is a classic in evolutionary biology In 1968 Kimura proposed the neutral theory of molecular evolution which became the theoretical basis of modern evolutionary studies After publishing his work in 1983 in the book *Neutral Theory of Molecular Evolution* Kimura wrote this book in 1988 for the general public It was originally written in Japanese and is translated here for the first time In the book Kimura first summarizes the development of evolutionary theory since Lamarck and Darwin He then shows how the search for mechanisms of evolution developed into population genetics and describes how the study of molecular evolution matured by taking in the fruits of molecular biology Kimura proceeds to carefully explain his neutral evolution theory at the molecular level Finally he presents his view of the world from an evolutionary perspective The book has long served as an in depth introduction to evolutionary biology for

students and young researchers in Japan There has been remarkably rapid progress in the field of bioscience at the molecular level over the past 30 years Nevertheless the book remains an important contribution that laid the foundations for what followed in molecular evolutionary studies

The Experimental roots of the neutral theory of molecular evolution Edna Suárez,1996 *Molecular Evolution, Protein Polymorphism and the Neutral Theory* Motoo Kimura,1982

The Substitutional Genetic Load and the Neutral Theory of Molecular Evolution Frederick Martin Phelps,1989

The Causes of Molecular Evolution John H. Gillespie,1991 This work provides a unified theory that addresses the important problem of the origin and maintenance of genetic variation in natural populations With modern molecular techniques variation is found in all species sometimes at astonishingly high levels Yet despite these observations the forces that maintain variation within and between species have been difficult subjects of study Because they act very weakly and operate over vast time scales scientists must rely on indirect inferences and speculative mathematical models However despite these obstacles many advances have been made The author's research in molecular genetics evolution and bio mathematics has enabled him to draw on this work and present a coherent and valuable view of the field The book is divided into three parts The first consists of three chapters on protein evolution DNA evolution and molecular mechanisms This section reviews the experimental observations on genetic variation The second part gives a unified treatment of the mathematical theory of selection in a fluctuating environment The final two chapters combine the earlier assessments in a treatment of the scientific status of two competing theories for the maintenance of genetic variation Steeped in the enormous advances population genetics has made over the past 25 years this book will be of interest to human geneticists biologists evolutionary theorists and bio mathematicians

Populations Genetics, Molecular Evolution, and the Neutral Theory Motoo Kimura,1994 *Non-Neutral Evolution* Brian Golding,1994-12-31 All organisms from the AIDS virus to bacteria to fish to humans must evolve to survive Despite the central place of evolution within biology there are many things that are still poorly understood For Charles Darwin the driving force behind all evolution was natural selection More recently evolutionary biologists have considered that many mutations are essentially neutral with respect to natural selection Many questions remain Are molecular differences between species adaptive Are differences within species adaptive Modern biotechnology has enabled us to identify precisely the actual DNA structure from many individuals within a population and thus to see how these DNA sequences have changed over time and to answer some of these questions At the same time this knowledge poses new challenges to our ability to understand the observed patterns This exciting volume outlines the biological problems provides new perspectives on theoretical treatments of the consequences of natural selection examines the consequences of molecular data and relates molecular events to speciation Every evolutionary biologist will find it of interest

Helix Network Theory Runyuan Gan,2023-02-08 Based on the philosophy of Systems Science and the law of evolution theory the book by applying the methods of structural functionalism divides the modern social system into human culture economy

polity science law education and other sub systems through the systematic synthesis of disciplines such as economics sociology management politics culture theories history and philosophy and explores the connection between these sub systems and their intricate relation with social progress thus depicting the historical trajectory of the long term evolution of human social system Starting from the actual production and operation of the firms the author systematically analyses the organic connections and sophisticated operating process of social reproduction in modern society from micro meso and macro revealing the dynamic structure and evolutionary laws of the social economic system This book reveals the fractal features such as self similarity hierarchy and recursiveness in the general structure of the firm system the sector system and the national economic system thereby integrating micro meso and macro economics into a unified theoretical framework This integration is interdisciplinary and has gone beyond the economics It can be regarded as the fourth grand synthesis in the history of economics after John Stuart Mill 1806 1873 Alfred Marshall 1842 1924 and Samuelson 1915 2009 **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 Evolutionary Genetics Glenn-Peter Sætre, Mark Ravinet, 2019-05-13 With recent technological advances vast quantities of genetic and genomic data are being generated at an ever increasing pace The explosion in access to data has transformed the field of evolutionary genetics A thorough understanding of evolutionary

principles is essential for making sense of this but new skill sets are also needed to handle and analyze big data This contemporary textbook covers all the major components of modern evolutionary genetics carefully explaining fundamental processes such as mutation natural selection genetic drift and speciation It also draws on a rich literature of exciting and inspiring examples to demonstrate the diversity of evolutionary research including an emphasis on how evolution and selection has shaped our own species Practical experience is essential for developing an understanding of how to use genetic and genomic data to analyze and interpret results in meaningful ways In addition to the main text a series of online tutorials using the R language serves as an introduction to programming statistics and analysis Indeed the R environment stands out as an ideal all purpose source platform to handle and analyze such data The book and its online materials take full advantage of the authors own experience in working in a post genomic revolution world and introduces readers to the plethora of molecular and analytical methods that have only recently become available Evolutionary Genetics is an advanced but accessible textbook aimed principally at students of various levels from undergraduate to postgraduate but also for researchers looking for an updated introduction to modern evolutionary biology and genetics

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

Handbook of Human Molecular Evolution, 2

Volume Set David N. Cooper, Hildegard Kehrer-Sawatzki, 2008-10-13 This splendid compendium will be the standard reference work for years to come a handbook to browse to consult to look things up in and to read with pleasure wonder and post Darwinian exhilaration Richard Dawkins This is a marvellous book It should be in every university library preferably in several copies and every reader of this journal should add it to their next grant application It really is that good I have already found this book to be invaluable For many years to come these two volumes will be the starting point for anyone wishing to find out about virtually any subject relating to human genetics Any scientist working on humans or other animals will find many things in these pages that will stimulate inform and inspire The authors editors and publishers are to be congratulated for their work order a copy now HUMAN GENETICS The publishers and editors deserve to be congratulated for publishing this major book which coincides with the 200th anniversary of the birth of Charles Darwin The book is well timed with biologists theologians and sociologists engaged in intense debate on the Darwinian Theory on the origin of species

evolution and natural selection There is little doubt that this marvellous publication should be in the library of universities and academic institutions dealing with basic and applied biology research and education It will not be surprising if the individual academic or researcher decides to invest in this resource and enrich their personal collection of leading books in genetics and genomics GENOMIC MEDICINE A Unique Collection of High Quality Articles Derived from the Acclaimed Encyclopedia of Life Sciences The revolution in human molecular genetics which has taken place over the last three decades has yielded a wealth of information not only on the structure and function of our genes but also on gene expression mutation and polymorphic variation Over the last five years the focus has moved from genes to genomes Even though the annotation of our 30 000 genes is still in progress genome wide studies have already yielded abundant evidence for the signatures of past selection and adaptive evolution within human gene sequences Further the completion of the sequencing of the 3 billion base pair human genome coupled with the increasing availability of other vertebrate genome sequences has ushered in a new era of comparative genomics We are now able to identify many of the molecular events from the chromosomal level down to the single base pair that have occurred during vertebrate mammalian primate and hominid evolution Indeed the detailed comparison of the human and chimpanzee genomes has begun to reveal some of the genetic changes that have been involved in the development of human lineage specific traits We are thus acquiring the ability to ask searching questions about our origins about the demographic processes associated with the global radiation of humankind as well as some of the unique adaptations that make us human Evolutionary biology has become so broad that its impact may be felt across the spectrum of the biological sciences The aim of the Handbook of Human Molecular Evolution is relatively straightforward to bring together under the same cover the many and varied strands of our knowledge of human primate vertebrate molecular evolution Hence the 282 chapters that comprise this essential reference work have been thematically arranged into twelve sections covering the whole scope of research into human molecular evolution General Concepts in Evolutionary Genetics Mutation Adaptation and Natural Selection Evolutionary and Population Genetics Human Evolution Human Genome Evolution Evolution of Human Gene Structure and Function Evolution of Gene Expression Mitochondrial Genome Evolution Chromosomal Evolution Comparative Genomics Evolution and Disease Susceptibility Analysis of Ancient DNA This conceptual outline informed the selection of the chapters themselves and the connections between them Some of these chapters are intended to be introductory aimed at undergraduates and non specialists They provide basic information and a list of recommended further reading to encourage the reader to explore a topic in more depth This approach helps the student reader progress from textbook material to primary literature Some chapters are overviews that address topics of broad interest and importance while others focus on quite specialized topics These chapters are written for postgraduate students and research workers they contain more detailed information and key references allowing the reader to investigate a specific area in more depth This format allows professionals to use the books as a quick reference source The chapters are richly supplied with website

information to allow access to relevant data sources over the internet The self contained peer reviewed articles in this unique handbook have been written by leading scientists in each field Key topics include the evolution of enzyme function the use of nucleic acid divergence as a molecular clock the origin of non functional or junk DNA the role of gene duplication in the emergence of novel gene function and the identification of molecular changes responsible for various human characteristics especially those pertaining to infection cognition disease and disease susceptibility The Handbook of Human Molecular Evolution has adopted an integrated approach to the study of human evolution and seeks throughout to emphasize the interplay between molecular genetic concepts and principles on the one hand and information acquisition and interpretation on the other In this way it is hoped that the documents of evolutionary history written into the fabric of our genome will become accessible to the widest possible audience *Annual Review of Genomics and Human Genetics* ,2010 **The Origin and Evolutionary Mechanism of New Genes** Manyuan Long,1992 **Nature Encyclopedia of the Human Genome: Genome databases - Mitochondrial genome: Evolution** David Neil Cooper,2003

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