



genetics of the Evolutionary Process

Theodosius Dobzhansky

Genetics Of The Evolutionary Process

Gerdina de Jong



Genetics Of The Evolutionary Process:

Genetics of the Evolutionary Process Theodosius Dobzhansky, 1970 The world's foremost geneticist surveys the major developments in what is emerging as the most important single area of scientific inquiry in the twentieth century biological theory of evolution 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 evolutionary genetics but also current and in depth enough to be of value to established researchers in evolution biology **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 Analysis of Evolutionary Processes Fabio Dercole, Sergio Rinaldi, 2008-02-11 Quantitative approaches to evolutionary biology traditionally consider evolutionary change in isolation from an important pressure in natural selection the demography of coevolving populations In Analysis of Evolutionary Processes Fabio Dercole and Sergio Rinaldi have written the first comprehensive book on Adaptive Dynamics AD a quantitative modeling approach that explicitly links evolutionary changes to demographic ones The book shows how the so called AD canonical equation can answer questions of paramount interest in biology engineering and the social sciences especially economics After introducing the basics of evolutionary processes and classifying available modeling approaches Dercole and Rinaldi give a detailed presentation of the derivation of the AD canonical equation an ordinary differential equation that focuses on evolutionary processes driven by rare and small innovations The authors then look at important features of evolutionary dynamics as viewed through the lens of AD They present their discovery of the first chaotic evolutionary attractor which calls into question the common view that coevolution produces exquisitely harmonious adaptations between species And opening up

potential new lines of research by providing the first application of AD to economics they show how AD can explain the emergence of technological variety Analysis of Evolutionary Processes will interest anyone looking for a self contained treatment of AD for self study or teaching including graduate students and researchers in mathematical and theoretical biology applied mathematics and theoretical economics Population Genetics and Evolution Gerdina de Jong,2012-12-06 At least since the 1940s neo Darwinism has prevailed as the consensus view in the study of evolution The mechanism of evolution in this view is natural selection leading to adaptation working on a substrate of adaptationally random mutations As both the study of genetic variation in natural populations and the study of the mathematical equations of selection are reckoned to a field called population genetics population genetics came to form the core in the theory of evolution So much so that the fact that there is more to the theory of evolution than population genetics became somewhat obscured The genetics of the evolutionary process or the genetics of evolutionary change came close to being all of evolutionary biology In the last 10 years this dominating position of population genetics within evolutionary biology has been challenged In evolutionary ecology optimization theory proved more useful than population genetics for interesting predictions especially of life history strategies From developmental biology constraints in development and the role of internal regulation were emphasized From paleobiology a proposal was put forward to describe the fossil record and the evolutionary process as a series of punctuated equilibria thus exhorting population geneticists to give a plausible account of how such might come about All these developments tend to obscure the central role of population genetics in evolutionary biology *Stochastic Processes in Genetics and Evolution* Charles J. Mode,Candace K. Sleeman,2012 The scope of this book is the field of evolutionary genetics The book contains new methods for simulating evolution at the genomic level It sets out applications using up to date Monte Carlo simulation methods applied in classical population genetics and sets out new fields of quantifying mutation and selection at the Mendelian level A serious limitation of Wright Fisher process the assumption that population size is constant motivated the introduction of self regulating branching processes in this book While providing a short review of the principles of probability and its application and using computer intensive methods whilst applying these principles this book explains how it is possible to derive new formulas expressed in terms of matrix algebra providing new insights into the classical Wright Fisher processes of evolutionary genetics Also covered are the development of new methods for studying genetics and evolution simulating nucleotide substitutions of a DNA molecule and on self regulating branching processes Components of natural selection are studied in terms of reproductive success of each genotype whilst also studying the differential ability of genotypes to compete for resources and sexual selection The concept of the gene is also reviewed in this book and it provides a current definition of a gene based on very recent experiments with micro array technologies A development of stochastic models for simulating the evolution of model genomes concludes the studies in this book Deserving of a place on the book shelves of workers in biomathematics applied probability stochastic processes and statistics as well as

in bioinformatics and phylogenetics it will also be relevant to those interested in computer simulation and evolutionary biologists interested in quantitative methods

Processes in Human Evolution Francisco José Ayala, Camilo José Cela Conde, 2017 The discoveries of the last decade have brought about a completely revised understanding of human evolution due to the recent advances in genetics palaeontology ecology archaeology geography and climate science Written by two leading authorities in the fields of physical anthropology and molecular evolution Processes in Human Evolution presents a reconsidered overview of hominid evolution synthesising data and approaches from a range of inter disciplinary fields The authors pay particular attention to population migrations since these are crucial in understanding the origin and dispersion of the different genera and species in each continent and to the emergence of the lithic cultures and their impact on the evolution of cognitive capacities Processes in Human Evolution is intended as a primary textbook for university courses on human evolution and may also be used as supplementary reading in advanced undergraduate and graduate courses It is also suitable for a more general audience seeking a readable but up to date and inclusive treatment of human origins and evolution

Epistasis and the Evolutionary Process Jason B. Wolf, Edmund D. Brodie, Michael John Wade, 2000 Over the last two decades research into epistasis has seen explosive growth and has moved the focus of research in evolutionary genetics from a traditional additive approach We now know the effects of genes are rarely independent and to reach a fuller understanding of the process of evolution we need to look at gene interactions as well as gene environment interactions This book is an overview of non additive evolutionary genetics integrating all work to date on all levels of evolutionary investigation of the importance of epistasis in the evolutionary process in general It includes a historical perspective on this emerging field in depth discussion of terminology discussions of the effects of epistasis at several different levels of biological organization and combinations of theoretical and experimental approaches to analysis

The Princeton Guide to Evolution David A. Baum, Douglas J. Futuyma, Hopi E. Hoekstra, Richard E. Lenski, Allen J. Moore, Catherine L. Peichel, Dolph Schluter, Michael C. Whitlock, 2017-03-21 The essential one volume reference to evolution The Princeton Guide to Evolution is a comprehensive concise and authoritative reference to the major subjects and key concepts in evolutionary biology from genes to mass extinctions Edited by a distinguished team of evolutionary biologists with contributions from leading researchers the guide contains some 100 clear accurate and up to date articles on the most important topics in seven major areas phylogenetics and the history of life selection and adaptation evolutionary processes genes genomes and phenotypes speciation and macroevolution evolution of behavior society and humans and evolution and modern society Complete with more than 100 illustrations including eight pages in color glossaries of key terms suggestions for further reading on each topic and an index this is an essential volume for undergraduate and graduate students scientists in related fields and anyone else with a serious interest in evolution Explains key topics in some 100 concise and authoritative articles written by a team of leading evolutionary biologists Contains more than 100 illustrations including eight pages in color Each article includes an

outline glossary bibliography and cross references Covers phylogenetics and the history of life selection and adaptation evolutionary processes genes genomes and phenotypes speciation and macroevolution evolution of behavior society and humans and evolution and modern society *Genetics, Evolution and Radiation* Victoria L. Korogodina, Carmel E Mothersill, Sergey G. Inge-Vechtomov, Colin B. Seymour, 2017-03-28 This book is dedicated to the great scientist and outstanding individual Nikolay Wladimirovich Timofeeff Ressovsky The book brings together a number of brief stories essays about Timofeeff Ressovsky including Stories told by himself and scientific chapters addressing his major research areas genetics radiobiology radiation ecology and epidemiology and evolution Timofeeff Ressovsky contributed to several fields of biology and established new directions of scientific research He often repeated the phrase which would later become famous Science should not be approached with the ferocity of wild animals In keeping with that philosophy the issues discussed here are still open Each scientific part starts with a current review the chapters present leading scientific schools and views The main theme discussed in the genetics part is mutation variability in the context of linear replication transcription translation and conformational template processes and its dependence on phylogenetic group In turn the radiobiology chapters focus on the reorganization of DNA cell and population variability under low dose irradiation sparking indirect processes and adaptive response The radiation ecology and epidemiology parts present data on the consequences of nuclear plants and related accidents for ecological systems and human beings Here some approaches to estimating radiation risks are also offered Evolution laws are demonstrated in the genomic universe plant microbe symbiosis stabilizing and destabilizing directional selection The last essay demonstrates the principles of organization operating in local animal populations which are approached as social organisms of complex systemic nature The chapter Radiation Induced Aging and Genetic Instability of Mesenchymal Stem Cells An Issue for Late Health Effects is available open access under a CC BY 4.0 license *Evolution, Genetics and Eugenics* Horatio Hackett Newman, 1925 **Social and Psychological Aspects of Applied Human Genetics** James R. Sorenson, 1972 About 1400 references to books and journal articles primarily concerned with social and psychological issues of applied human genetics in general and genetic counseling in particular Excludes literature dealing with ethical or proscriptive areas Also covers foreign language titles Citations mostly from 1960 s through 1972 Classified arrangement No index **Fundamentals of Mathematical Evolutionary Genetics** Yuri M. Svirezhev, V.P. Passekov, 2012-12-06 One service mathematics has rendered the Et moi si j'avais su comment en revenir human race It has put common sense back je ri y serais point aile Jules Verne where it belongs on the topmost shelf next to the dusty canister labelled discarded non The series is divergent therefore we may be sense able to do something with it Eric T Bell O Heavieside Mathematics is a tool for thought A highly necessary tool in a world where both feedback and non linearities abound Similarly all kinds of parts of mathematics serve as tools for other parts and for other sciences Applying a simple rewriting rule to the quote on the right above one finds such statements as One service topology has rendered mathematical physics o

One service logic has rendered computer science o One service category theory has rendered mathematics All arguably true And all statements obtainable this way form part of the *raison d'être* of this series **Oxford Handbook of Evolutionary Psychology** Robin Ian MacDonald Dunbar, Louise Barrett, 2007 The Oxford Handbook of Evolutionary Psychology is the definitive comprehensive and authoritative text on this burgeoning field With contributions from over fifty experts in the field the range and depth of coverage is unequalled It will be an essential resource for students and researchers in psychology

Transgenerational Epigenetics, 2019-05-18 Transgenerational Epigenetics Second Edition offers the only up to date comprehensive analysis of the inheritance of epigenetic phenomena between generations with an emphasis on human disease relevance drug discovery and next steps in clinical translation International experts discuss mechanisms of epigenetic inheritance its expression in animal and plant models and how human ailments such as metabolic disorders and cardiovascular disease are influenced by transgenerational epigenetic inheritance Where evidence is sufficient epigenetic clinical interventions are proposed that may help prevent or reduce the severity of disease before offspring are born This edition has been thoroughly revised in each disease area featuring newly researched actors in epigenetic regulation including long noncoding RNA in addition to histone modifications and DNA methylation Therapeutic pathways in treating cancer and extending human longevity are also considered as are current debates and future directions for research Presents a fully updated and expanded release addressing transgenerational epigenetics epigenetic mechanisms of gene regulation and the role of epigenetics in human longevity and cancer Examines the field from bench to bedside discussing basic science disease management current debates and next steps in epigenetic research and drug discovery Features chapter contributions from international experts Genetics of Mate Choice: From Sexual Selection to Sexual Isolation W.J.

Etges, M.A. Noor, 2012-12-06 Genetic studies aimed at understanding the origin of species are dominating major scientific journals In the past decade genetic tools that were previously available only in model systems have become accessible to investigators working on nearly all species Concurrent with these technical advances has been an increase in understanding of both the importance of considering the ecological context of speciation and testing hypotheses about causes for species formation Many recent studies suggest a prominent role of sexual selection in species formation These advances have produced a need for a synthesis of what we now understand about speciation and perhaps more importantly where we should go from here In this volume several leading investigators and rising stars have contributed reviews and or novel primary research findings aimed at understanding the ultimate mystery on which Darwin named his most famous and influential book Fundamental to the origin of species is the evolution of mate choice systems This collection of papers discusses burgeoning genetic evolutionary and ecological approaches to understanding the origins of mating discrimination and causes of premating reproductive isolation both within and between species The individual contributions span a wide spectrum of disciplines taxa and ideas some controversial This synthesis brings together several of the most recent ideas with supporting

empirical data This book will be of particular interest to both undergraduate and postgraduate researchers and students and researchers in the field of evolutionary biology genetics and animal behaviour

Evolution Through Genetic Exchange Michael L Arnold, 2006-07-27 This is the first book to focus on the rapidly expanding field of reticulate non treelike or network evolution Written by a top researcher in the field this book includes a wealth of examples from viral prokaryotic and eukaryotic clades

Information and Meaning in Evolutionary Processes William F. Harms, 2004-04-26 This book is intended to help transform epistemology the traditional study of knowledge into a rigorous discipline by removing conceptual roadblocks and developing formal tools required for a fully naturalized epistemology The evolutionary approach which Harms favours begins with the common observation that if our senses and reasoning were not reliable then natural selection would have eliminated them long ago The challenge for some time has been how to transform these informal musings about evolutionary epistemology into a rigorous theoretical discipline capable of complementing current scientific studies of the evolution of cognition with a philosophically defensible account of meaning and justification

Invasion Genetics Spencer C. H. Barrett, Robert I. Colautti, Katrina M. Dlugosch, Loren H. Rieseberg, 2016-07-15 Invasion Genetics the Baker demographic genetics the role of stochastic forces in the invasion process the contemporary evolution of local adaptation the significance of epigenetics and transgenerational plasticity for invasive species the genomic consequences of colonization the search for invasion genes and the comparative biology of invasive species A wide diversity of invasive organisms are discussed including plants animals fungi and microbes

Global Applications of Pervasive and Ubiquitous Computing Gao, Tao, 2012-12-31 As technology continues to play a vital role in our everyday lives advancements in human computer interaction studies embrace ubiquitous computing as a tool for information processing to evolve into the human environment Global Applications of Pervasive and Ubiquitous Computing provides the global applications and efforts in building and applying pervasive and ubiquitous computer technology This book provides an essential collection of research on information technology for educators researchers and practitioners aiming to advance the practice and understanding of pervasive and ubiquitous applications

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