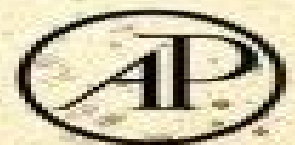


JOHN C. AVISE

Conceptual Breakthroughs in Evolutionary Genetics

A Brief History of
Shifting Paradigms



Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms

Masatoshi Nei



Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms:

Conceptual Breakthroughs in Evolutionary Genetics John C. Avise, 2014-01-18 Conceptual Breakthroughs in Evolutionary Genetics is a pithy lively book occupying a special niche the conceptual history of evolutionary genetics not inhabited by any other available treatment Written by a world leading authority in evolutionary genetics this work encapsulates and ranks 70 of the most significant paradigm shifts in evolutionary biology and genetics during the century and a half since Darwin and Mendel The science of evolutionary genetics is central to all of biology but many students and other practitioners have little knowledge of its historical roots and conceptual developments This book fills that knowledge gap in a thought provoking and readable format This fascinating chronological journey along the many conceptual pathways to our modern understanding of evolutionary and genetic principles is a wonderful springboard for discussions in undergraduate or graduate seminars in evolutionary biology and genetics But more than that anyone interested in the history and philosophy of science will find much of value between its covers Provides a relative ranking of 70 seminal breakthroughs and paradigm shifts in the field of evolutionary biology and genetics Modular format permits ready access to each described subject Historical overview of a field whose concepts are central to all of biology and relevant to a broad audience of biologists science historians and philosophers of science Extensively cross referenced with a guide to landmark papers and books for each topic

Fundamentals of Evolutionary Genetics Masroor Elahi Babar, Muhammad Ashraf, 2025-05-06 This book very carefully explains the fundamental processes of evolutionary genetics such as mutation natural selection genetic drift and speciation It discusses the role of these concepts in evolution and what the consequences are of their overacting and depressive behavior It gives an up to date overview of the studies on Evolutionary Genetics and the fundamentals of the relationships between genetics and evolution irrespective of the environment organisms inhabit Further discussion can be found on the structure of genetics theories of Darwin and Mendel evolutionary mechanisms and genetics and species formation gene flow phenotypic evolution behavioral genetics genetics and developmental evolution genetic manipulation and control of convergent evolution theory of adaptation in animals and transmission of adaptive changes to the next generation possible variations in natural populations and their causes and finally the origin of new genes and their impacts on evolutionary process and phenotypic expressions

The Logic of Social Practices Raffaella Giovagnoli, Robert Lowe, 2020-02-04 This book reports on cutting edge research concerning social practices Merging perspectives from various disciplines including philosophy biology and cognitive science it discusses theoretical aspects of social behavior along with models to investigate them and also presents key case studies Further It describes concepts related to habits routines and rituals and examines important features of human action such as intentionality and choice exploring the influence of specific social practices in different situations Based on a workshop held in June 2018 at the 6th World Congress of Universal Logic UNIOLOG2018 in Vichy and including additional invited chapters the book offers fresh insights into the fields of social practice

and the cognitive computational and philosophical tools to understand them

Biological Systematics Andrew V. Z. Brower, Randall T. Schuh, 2021-03-15 Understanding the history and philosophy of biological systematics phylogenetics taxonomy and classification of living things is key to successful practice of the discipline In this thoroughly revised Third Edition of the classic Biological Systematics Andrew V Z Brower and Randall T Schuh provide an updated account of cladistic principles and techniques emphasizing their empirical and epistemological clarity Brower and Schuh cover the history and philosophy of systematics the mechanics and methods of character analysis phylogenetic inference and evaluation of results the practical application of systematic results to biological classification adaptation and coevolution biodiversity and conservation new chapters on species and molecular clocks Biological Systematics is both a textbook for students studying systematic biology and a desk reference for practicing systematists Part explication of concepts and methods part exploration of the underlying epistemology of systematics This third edition addresses why some methods are more empirically sound than others

Planning for the Planet Simone Schleper, 2019-07-12 During the 1960s and 1970s rapidly growing environmental awareness and concern created unprecedented demand for ecological expertise and novel challenges for ecological advocacy groups such as the International Union for Conservation of Nature and Natural Resources IUCN This book reveals how despite their vast scientific knowledge and their attempts to incorporate socially relevant themes IUCN experts inevitably struggled to make global schemes for nature conservation a central concern for UNESCO UNEP and other intergovernmental organizations

Human Diversity Charles Murray, 2020-01-28 All people are equal but as Human Diversity explores all groups of people are not the same a fascinating investigation of the genetics and neuroscience of human differences The thesis of Human Diversity is that advances in genetics and neuroscience are overthrowing an intellectual orthodoxy that has ruled the social sciences for decades The core of the orthodoxy consists of three dogmas Gender is a social construct Race is a social construct Class is a function of privilege The problem is that all three dogmas are half truths They have stifled progress in understanding the rich texture that biology adds to our understanding of the social political and economic worlds we live in It is not a story to be feared There are no monsters in the closet Murray writes no dread doors we must fear opening But it is a story that needs telling Human Diversity does so without sensationalism drawing on the most authoritative scientific findings celebrating both our many differences and our common humanity

Reproductive Strategies in Insects Omkar, Geetanjali Mishra, 2022-02-15 Reproduction is one of the most inherent tasks that all living organisms are actively involved in It forms the backbone of their existence with all evolutionary energies directed over billion years of creation into maximizing reproductive effort For so simple and directed a need such as maximizing reproduction it is interesting to see how much diversity and complexity exists in this task Each organism despite having the same end goal employs different strategies The complexities intricacies and strategies of successful reproduction while being extremely fascinating are equally befuddling Reproductive Strategies in Insects provides an expansive critical

look at the reproductive strategies of the most diverse group of animals the insects Insects which inhabit myriad niches in all ecosystems except the oceans show the most diverse reproductive strategies ranging from simplest to most complex Reproductive strategies viz search for mates number of mates display of mate quality assessment of mate quality acceptance of mate rejection of mates forced copulations the fight for paternity pre during and post copula the modulation of paternity ovipositional strategies and parental care are described in detail in this book Also each strategy is analyzed in relation to its morphological physiological ethological ecological and evolutionary aspects Features Covers a wide variety of reproductive strategies A detailed step by step description of reproductive strategies Discusses morphological physiological ethological ecological and evolutionary aspects Modulation of these strategies and responsible modulatory factors are also discussed Well illustrated Recent research results and probable future research directions This is a niche reference book for ethologists biologists studying behavioural evolution and entomologists It may also be used as a textbook for a graduate level course in behaviour

The Founders of Evolutionary Genetics S. Sarkar, 2012-12-06 genetics It is simply the appropriation of that term very likely with insufficient knowledge and respect for its past usage For that the Editor alone is responsible and requests tolerance He has as far as he can tell no intention or desire to use it for any historiographical purposes other than that just mentioned Even more important the decision to consider Muller together with Fisher Haldane and Wright is also not original Crow 1984 has already done so arguing persuasively that Muller was keenly interested in evolution and made substantial contributions to the development of the neo Darwinian view Crow's reasons for considering these four figures together and the reasons discussed above are complementary This book continues a historiographical choice he initiated others will have to judge whether it is appropriate The foregoing considerations were intended to show why Fisher Haldane Muller and Wright should be considered together in the history of theoretical evolutionary genetics I By a welcome stroke of luck from the point of view of the Editor all four of these figures were born almost together between 1889 and 1892 and almost exactly a century ago It therefore seemed appropriate to use their birth centenaries to consider their work together A conference was held at Boston University on March 6 1990 under the auspices of the Boston Center for the Philosophy and History of Science to discuss their work This book has emerged mainly from that conference

Thinking about Evolution

Rama S. Singh, Costas B. Krimbas, Diane B. Paul, John Beatty, 2011-04-28 This is the second of two volumes published by Cambridge University Press in honor of Richard Lewontin The first volume *Evolutionary Genetics from Molecules to Morphology* honors Lewontin's more technical contributions to genetics and evolutionary biology This second volume of essays honors the philosophical historical and political dimensions of his work Given the range of Lewontin's own contributions it is fitting that the volume covers such a wide range of perspectives on modern biology He was a very successful practitioner of evolutionary genetics a rigorous critic of the practices of genetics and evolutionary biology as well as an articulate analyst of the social political and economic contexts and consequences of genetic and evolutionary research

The volume contains an essay by Lewontin on Natural History and Formalism in Evolutionary Genetics and an extended interview with Lewontin covering the history of evolutionary genetics as seen from his perspective and exemplified by his career. The remaining chapters contributed by former students, post docs, colleagues and collaborators cover issues ranging from the history and conceptual foundations of evolutionary biology and genetics to the implications of human genetic diversity to the political economy of agriculture and public health.

Paradigm Shifts in the Field of Evolutionary Biology: Case Study of Punctuated Equilibrium David Sasso, 1995 [The New Evolutionary Paradigm](#) Ervin Laszlo, 2019-07-18

Originally published in 1991, *The New Evolutionary Paradigm* provides an innovative and cross disciplinary look at evolution. While Darwin's theory of evolution was originally restricted to the life sciences, in recent years the same principles have been applied successfully to historical, social and natural sciences. The papers included in *The New Evolutionary Paradigm* analyse the facts, observations and accumulated data from the significance of a general evolution theory cannot be overemphasised: a new understanding of the cosmos and man's relationship to it could lead to the systemization of the irreversible change that takes place in society and nature. This book will appeal to scientists, sociologists and those interested in transdisciplinary evolution theories.

The Concept of the Gene in Development and Evolution Peter J. Beurton, Raphael Falk, Hans-Jörg Rheinberger, 2000-05-29

Advances in molecular biological research in the latter half of the twentieth century have made the story of the gene vastly complicated: the more we learn about genes, the less sure we are of what a gene really is. Knowledge about the structure and functioning of genes abounds, but the gene has also become curiously intangible. This collection of essays renews the question: what are genes? Philosophers, historians and working scientists re-evaluate the question in this volume, treating the gene as a focal point of interdisciplinary and international research. It will be of interest to professionals and students in the philosophy and history of science, genetics and molecular biology.

Mutation-Driven Evolution Masatoshi Nei, 2013-05-02

The purpose of this book is to present a new mechanistic theory of mutation driven evolution based on recent advances in genomics and evolutionary developmental biology. The theory asserts perhaps somewhat controversially that the driving force behind evolution is mutation, with natural selection being of only secondary importance. The word mutation is used to describe any kind of change in DNA, such as nucleotide substitution, gene duplication, deletion, chromosomal change and genome duplication. A brief history of the principal evolutionary theories: Darwinism, mutationism, neo Darwinism and neo mutationism that preceded the theory of mutation driven evolution is also presented in the context of the last 150 years of research. However, the core of the book is concerned with recent studies of genomics and the molecular basis of phenotypic evolution and their relevance to mutation driven evolution. In contrast to neo Darwinism, mutation driven evolution is capable of explaining real examples of evolution, such as the evolution of olfactory receptors, sex determination in animals and the general scheme of hybrid sterility. In this sense, the theory proposed is more realistic than its predecessors and gives a more logical explanation of various evolutionary events.

Mutation Driven Evolution is suitable for graduate level students as well as professional researchers both empiricists and theoreticians in the fields of molecular evolution and population genetics It assumes that the readers are acquainted with basic knowledge of genetics and molecular biology

Divergence with Genetic Exchange Michael L. Arnold, 2015-10-23 The study of genetic exchange resulting from natural hybridization horizontal gene transfer and viral recombination has long been marked by controversy between researchers holding different conceptual frameworks Those subscribing to a doctrine of species purity have traditionally been reluctant to recognise inferences suggesting anything other than a marginal role for non allopatric divergence leading to gene transfer between different lineages However an increasing number of evolutionary biologists now accept that there is a growing body of evidence indicating the existence of non allopatric diversification across many lineages and all domains of biological diversity *Divergence with Genetic Exchange* investigates the mechanisms associated with evolutionary divergence and diversification focussing on the role played by the exchange of genes between divergent lineages a process recently termed divergence with gene flow Although the mechanisms by which such divergent forms of life exchange genomic material may differ widely the outcomes of interest adaptive evolution and the formation of new hybrid lineages do not Successive chapters cover the history of the field detection methodologies outcomes implications for conservation programs and the effects on the human lineage associated with the process of genetic transfer between divergent lineages This research level text is suitable for senior undergraduate and graduate level students taking related courses in departments of genetics ecology and evolution It will also be of relevance and use to professional evolutionary biologists and systematists seeking a comprehensive and authoritative overview of this rapidly expanding field

Evolution, Genetics and Man Theodosius Dobzhansky, 1967

The Evolutionary Synthesis Ernst Mayr, William B. Provine, 1980 Biology was forged into a single coherent science only within living memory In this volume the thinkers responsible for the modern synthesis of evolutionary biology and genetics come together to analyze that remarkable event In a new Preface Ernst Mayr calls attention to the fact that scientists in different biological disciplines differed considerably in their degree of acceptance of Darwin's theories Mayr shows us that these differences were played out in four separate periods between 1859 and 1947 and thus enables us to understand fully why the synthesis was necessary and why Darwin's original theory that evolutionary change is due to the combination of variation and selection is as solid at the end of the twentieth century as it was in 1859

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 *Evolution, Genetics, and Man* Theodosius Grigorievich Dobzhansky, 1965 *Evolution* James Shapiro, 2011 James A Shapiro proposes an important new paradigm for understanding biological evolution the core organizing principle of biology Shapiro introduces crucial new molecular evidence that tests the conventional scientific view of evolution based on the neo Darwinian synthesis shows why this view is inadequate to today's evidence and presents a compelling alternative view of the evolutionary process that reflects the shift in life sciences towards a more information and systems based approach in *Evolution A View from the 21st Century* Shapiro integrates advances in symbiogenesis epigenetics and saltationism into a unified approach that views evolutionary change as an active cell process regulated epigenetically and capable of making rapid large changes by horizontal DNA transfer interspecific hybridization whole genome doubling symbiogenesis or massive genome restructuring *Evolution* marshals extensive evidence in support of a fundamental reinterpretation of evolutionary processes including more than 1 100 references to the scientific literature Shapiro's work will generate extensive discussion throughout the biological community and may significantly change your own thinking about how life has evolved It also has major implications for evolutionary computation information science and the growing synthesis of the physical and biological sciences *Lamarck's Signature* Edward J. Steele, Robyn A. Lindley, Robert V. Blanden, 1998-10-29 This controversial book challenges the accepted theories on the genetic mechanism of evolution The story these three biologists have to tell may very well upset the whole field of biology The traditional view of evolution which grew out of the work of Gregor Mendel and Charles Darwin and is strongly supported by present day scientists like Richard Dawkins and Stephen Jay Gould assumes we are at the mercy of our genes which we inherit largely unchanged from our parents except for rare random mutations which accumulated and lead to change over evolutionary time Those genes are coded in the chromosomes of the sperm and egg cells of the parents and so only changes to those two types of cell have any chance of being passed down to the parents offspring Any changes accidents or surgery to the rest of the parent's bodies are not transmitted to the newborn The theory of inheritance of acquired characteristics if you build up your muscles your kids will be born with a propensity toward great strength on the other hand favored by Jean Lamarck in the nineteenth century was brought down by nineteenth century science But now as this challenging and thrilling book shows it looks as though at least for certain structures in the body's immune system Lamarck may have been right after all Based on their own ground breaking work over the past two decades as well as that of other molecular biologists Steele Lindley and Blanden argue that for one adaptive body system there is strong molecular genetic evidence that aspects of acquired immunities developed by parents in their own lifetime can be passed on to their offspring Certain to stimulate lively debate *Lamarck's Signature* gives new life and scientific credibility to the Lamarckian heresy the notion of the inheritance of acquired characteristics

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Table of Contents Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms

1. Understanding the eBook Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms
 - The Rise of Digital Reading Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms
 - Advantages of eBooks Over Traditional Books
2. Identifying Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms
 - User-Friendly Interface
4. Exploring eBook Recommendations from Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms
 - Personalized Recommendations
 - Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms User Reviews and Ratings
 - Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms and Bestseller Lists

5. Accessing Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms Free and Paid eBooks
 - Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms Public Domain eBooks
 - Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms eBook Subscription Services
 - Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms Budget-Friendly Options
6. Navigating Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms eBook Formats
 - ePub, PDF, MOBI, and More
 - Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms Compatibility with Devices
 - Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms
 - Highlighting and Note-Taking Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms
 - Interactive Elements Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms
8. Staying Engaged with Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms
9. Balancing eBooks and Physical Books Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms
10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms
 - Setting Reading Goals Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms
 - Fact-Checking eBook Content of Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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