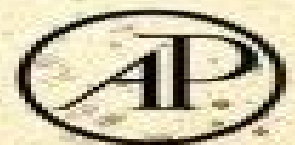


JOHN C. AVISE

Conceptual Breakthroughs in Evolutionary Genetics

A Brief History of
Shifting Paradigms



Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms

Michael L. Arnold



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

Conceptual Breakthroughs in The Evolutionary Biology of Aging Kenneth R. Arnold, Michael R. Rose, 2023-07-10 Conceptual Breakthroughs in the Evolutionary Biology of Aging continues the innovative Conceptual Breakthroughs series by providing a comprehensive outline of the major breakthroughs that built the evolutionary biology of aging as a leading scientific field Following the evolutionary study of aging from its humble origins to the present the book's chapters treat the field's breakthroughs one at a time Users will find a concise and accessible analysis of the science of aging viewed through an evolutionary lens Building upon widely cited studies conducted by author Michael Rose this book covers 30 subsequent years of growth and development within the field The book highlights key publications for those who are not experts in the field providing an important resource for researchers Given the prevailing interest in changing the aging process dramatically it is a powerful tool for readers who have a vested interest in understanding its causes and future control measures Reviews cell molecular theories of aging in the light of evolutionary biology Offers an evolutionary analysis of prospects for mitigating aging not commonly discussed within private and public sectors Provides readers with a radically different perspective on contemporary biological gerontology specifically through the lens of evolutionary biology

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

Conceptual Breakthroughs in Ethology and Animal Behavior Michael D. Breed, 2017-01-25 Conceptual Breakthroughs in Ethology and Animal Behavior highlights through concise summaries the most important discoveries and scientific revolutions in animal behavior These are assessed for their relative impact on the field and their significance to the forward motion of the science of animal behavior Eighty short essays capture the moment when a new concept emerged or a publication signaled a paradigm shift How the new understanding came about is explained and any continuing controversy or scientific conversation on the issue is highlighted Behavior is a rich and varied field drawing on genetics evolution physiology and ecology to inform its principles and this book embraces the wealth of knowledge that comes from the unification of these fields around the study of animals in motion The chronological organization of the essays makes this an excellent overview of the history of animal behavior ethology and behavioral ecology The work includes such topics as Darwin's role in shaping the study of animal behavior the logic of animal contests cognition empathy in animals and animal personalities Succinct accounts of new revelations about behavior through scientific investigation and scrutiny reveal the fascinating story of this field Similar to Dr John Avise's Contemporary Breakthroughs in Evolutionary Genetics the work is structured into vignettes that describe the conceptual revolution and assess the impact of the conceptual change with a score which ranges from 1 to 10 providing an assessment of the impact of the new findings on contemporary science Features a lively brisk writing style and brief entries to enable easy enjoyable access to this essential information Includes topics that cover the range of behavioral biology from mechanism to behavioral ecology Can also be used as supplemental material for an undergraduate animal behavior course or as the foundational text for an upper level or graduate discussion course in advanced animal behavior

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

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 UNILog2018 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

Complementarity Beyond Physics Arun Bala, 2016-12-01 In this study Arun Bala examines the implications that Niels Bohr's principle of complementarity holds for fields beyond physics Bohr one of the founding figures of modern quantum physics argued that the principle of complementarity he proposed for understanding atomic processes has parallels in psychology biology and social science as well as in Buddhist and Taoist thought But Bohr failed to offer any explanation for why complementarity might extend beyond physics and his claims have been widely rejected by scientists as empty speculation Scientific scepticism has only been reinforced by the naive enthusiasm of postmodern relativists and New Age intuitionists who seize upon Bohr's ideas to justify anti realist and mystical positions Arun Bala offers a detailed defence of Bohr's claim that complementarity has far reaching implications for the biological and social sciences as well as for comparative philosophies of science by explaining Bohr's parallels as responses to the omnipresence of grown properties in nature

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

Biology of Sharks and Their Relatives Jeffrey C. Carrier, Colin A. Simpfendorfer, Michael R. Heithaus, Kara E. Yopak, 2022-06-08 *Biology of Sharks and Their Relatives* is an award winning and groundbreaking exploration of the fundamental elements of the taxonomy systematics physiology and ecology of sharks skates rays and chimera This edition presents current research as well as traditional models to provide future researchers with solid historical foundations in shark research as well as presenting current trends from which to develop new frontiers in their own work Traditional areas of study such as age and growth reproduction taxonomy and systematics sensory biology and ecology are updated with contemporary research that incorporates emerging techniques including molecular genetics exploratory techniques in artificial insemination and the rapidly expanding fields of satellite tracking remote sensing accelerometry and imaging With two new editors and 90 contributors from the US UK South Africa Portugal France Canada New Zealand Australia India Palau United Arab Emirates Micronesia Sweden Argentina Indonesia Cameroon and the Netherlands this third edition is the most global and comprehensive yet It adds six new chapters representing extensive studies of health stress disease and pathology and social structure and continues to explore elasmobranch ecological roles and interactions with their habitats The book concludes

with a comprehensive review of conservation policies management and strategies as well as consideration of the potential effects of impending climate change Presenting cohesive and integrated coverage of key topics and discussing technological advances used in modern shark research this revised edition offers a well rounded picture for students and researchers

Genetika Molekuler - Edisi 2 Bambang Irawan, 2021-07-25 Pembahasan tentang sejarah perkembangan Genetika Molekuler diubah dari yang semula bersifat kronologis menjadi perkembangan konsep dalam Genetika Molekuler Selain itu ada penambahan topik sebanyak tiga bab yaitu Bab 15 Epigenetik Bab 16 Genetika Kanker dan Bab 17 Genetika Populasi Topik Bahan Dasar Teknologi Genetika Molekuler berpindah dari Bab 15 pada edisi pertama ke Bab 18 pada edisi kedua Bab terakhir yaitu Genetika Masyarakat ada penambahan penjelasan terutama di bagian Genetika Forensik Karena ada penambahan topik maka dengan sendirinya jumlah gambar dan tabel juga bertambah

The Founders of Evolutionary Genetics S. Sarkar, 1992-10-31 This book is a reassessment of the work of Fisher Haldane Muller and Wright on the occasion of the centenaries of their birth Given the seminal role played by these figures in twentieth century evolutionary biology it is also an important contribution to the history of biology It brings together the scholarship of biologists historians and philosophers to analyze the relative contributions and influence of these figures In considering Muller along with Fisher Haldane and Wright as a founder of evolutionary genetics this book breaks new ground in the historiography of biology The contributions included here should be of value to evolutionary biologists as well as historians and philosophers of science The book will appeal to historians and philosophers of biology evolutionary biologists and historians and philosophers of science

Thinking about Evolution Rama S. Singh, 2001 Originally published in 2001 this is the second of two volumes published by Cambridge University Press in honour of Richard Lewontin This second volume of essays honours the philosophical historical and political dimensions of his work It is fitting that the volume covers such a wide range of perspectives on modern biology given the range of Lewontin's own contributions He is not just a very successful practitioner of evolutionary genetics but a rigorous critic of the practices of genetics and evolutionary biology and an articulate analyst of the social political and economic contexts and consequences of genetic and evolutionary research The volume begins with an essay by Lewontin on Natural History and Formalism in Evolutionary Genetics and includes contributions by former students post docs colleagues and collaborators which cover issues ranging from the history and conceptual foundations of evolutionary biology and genetics to the implications of human genetic diversity

Paradigm Shifts in the Field of Evolutionary Biology: Case Study of Punctuated Equilibrium David Sasso, 1995

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

Divergence with Genetic Exchange Michael L. Arnold, 2015-10-22 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

The Gene's-Eye View of Evolution J. Arvid Ågren, 2021-07-21 Arvid Ågren has undertaken the most meticulously thorough reading of the relevant literature that I have ever encountered deploying an intelligent understanding to pull it into a coherent story As if that wasn't enough he gets it right Richard Dawkins To many evolutionary biologists the central challenge of their discipline is to explain adaptation the appearance of design in the living world With the theory of evolution by natural selection Charles Darwin elegantly showed how a purely mechanistic process can achieve this striking feature of nature Since then the way many biologists have thought about evolution and natural selection is as a theory about individual organisms Over a century later a subtle but radical shift in perspective emerged with the gene's eye view of evolution in which natural selection was conceptualized as a struggle between genes for replication and transmission to the next generation This viewpoint culminated with the publication of *The Selfish Gene* by Richard Dawkins Oxford University Press 1976 and is now commonly referred to as selfish gene thinking The gene's eye view has subsequently played a central role in evolutionary biology although it continues to attract controversy The central aim of this accessible book is to show how the gene's eye view differs from the traditional organismal account of evolution trace its historical origins clarify typical misunderstandings and by using examples from contemporary experimental work show why so many evolutionary biologists still consider it an indispensable heuristic The

book concludes by discussing how selfish gene thinking fits into ongoing debates in evolutionary biology and what they tell us about the future of the gene's eye view of evolution. The Gene's Eye View of Evolution is suitable for graduate level students taking courses in evolutionary biology, behavioural ecology and evolutionary genetics as well as professional researchers in these fields. It will also appeal to a broader interdisciplinary audience from the social sciences and humanities including philosophers and historians of science.

The Language of the Genes Steve Jones, 1994. Commissioned by the BBC to deliver the Reith Lectures in 1991, Steve Jones has used them as the basis for this book which argues that the evolution of our genes may be compared to the evolution of language. This book shows readers how close we are to success in the search for our origins.

The New Evolutionary Paradigm Ervin Laszlo, 1991. First Published in 1991. Routledge is an imprint of Taylor Francis, an informa company.

Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Conceptual Breakthroughs In Evolutionary Genetics A Brief History Of Shifting Paradigms**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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