

STEPHEN R. PALUMBI

THE EVOLUTION EXPLOSION

HOW HUMANS CAUSE
RAPID EVOLUTIONARY
CHANGE

Evolution Explosion How Humans Cause Rapid Evolutionary Change

SJ Ball



Evolution Explosion How Humans Cause Rapid Evolutionary Change:

Evolution Explosion Stephen R Palumbi, 2002-09-03 Evolution is not only the slow process that ruled the rise and fall of the dinosaurs over hundreds of millions of years It also happens quickly so quickly and frequently that it changes how all of us live our lives drugs fail because diseases evolve insects overcome the most powerful pesticides HIV and tuberculosis develop resistance to the newest drugs in a few months While the ecological scars of human technology have been well publicized the broad evolutionary consequences of antibiotic and antiviral use insecticide applications and herbicide bioengineering are largely unexplored Humans have a great impact on evolution Our impact remains largely accidental but our actions have generated a burst of evolutionary change that affects the entire natural world These changes come back to haunt us and affect our daily lives Written for a wide audience The Evolution Explosion examines the practical and critical aspects of modern evolution

Evolution Explosion: How Humans Cause Rapid Evolutionary Change Stephen R Palumbi, PhD, Dr, Stephen R. Palumbi, 2002-08-01 While the ecological impact of human technology has been well publicized the evolutionary consequences of antibiotic and antiviral use have been largely unexplored Palumbi examines these practical and critical aspects of modern evolution with a simple yet forceful style that contains both an urgent message and a sense of humor

Plant Microevolution and Conservation in Human-influenced Ecosystems David Briggs, 2009-11-26 As human activities are increasingly domesticating the Earth's ecosystems new selection pressures are acting to produce winners and losers amongst our wildlife With particular emphasis on plants Briggs examines the implications of human influences on micro evolutionary processes in different groups of organisms including wild weedy invasive feral and endangered species Using case studies from around the world he argues that Darwinian evolution is ongoing He considers how far it is possible to conserve endangered species and threatened ecosystems through management and questions the extent to which damaged landscapes and their plant and animal communities can be precisely recreated or restored Many of Darwin's ideas are highlighted including his insights into natural selection speciation the vulnerability of rare organisms the impact of invasive species and the effects of climate change on organisms An important text for students and researchers of evolution conservation climate change and sustainable use of resources

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 **Evolutionary Quantitative Genetics** Stevan J. Arnold, 2023-06-19 Evolutionary quantitative genetics EQG provides a formal theoretical foundation for quantitatively linking natural selection and genetic variation to the rate and expanse of adaptive evolution It has become the dominant conceptual framework for interpreting the evolution of quantitative traits in terms of elementary forces mutation inheritance selection and drift Despite this success the relevance of EQG to many biological scenarios remains relatively unappreciated with numerous fields yet to fully embrace its approach Part of the reason for this lag is that conceptual advances in EQG have not yet been fully synthesized and made accessible to a wider academic audience A comprehensive accessible overview is therefore now timely and Evolutionary Quantitative Genetics provides this much needed synthesis The central argument of the book is that an adaptive landscape concept can be used to understand both evolutionary process within lineages and the pattern of adaptive radiations In particular it provides a convincing argument that models with a moving adaptive peak carry us further than any other conceptual approach yet devised Although additive theory holds center stage the book mentions and references departures from additivity including non Gaussian distributions of allelic effects dominance epistasis maternal effects and phenotypic plasticity This accessible advanced textbook is aimed principally at students from senior undergraduate to postgraduate as well as practising scientists in the fields of evolutionary biology ecology physiology functional morphology developmental biology comparative biology paleontology and beyond who are interested in how adaptive radiations are produced by evolutionary and ecological processes **The Importance of**

Species Peter Kareiva, Simon A. Levin, 2015-01-22 A great many species are threatened by the expanding human population Though the public generally favors environmental protection conservation does not come without sacrifice and cost Many decision makers wonder if every species is worth the trouble Of what consequence would the extinction of say spotted owls or snail darters be Are some species expendable Given the reality of limited money for conservation efforts there is a compelling need for scientists to help conservation practitioners set priorities and identify species most in need of urgent attention Ecology should be capable of providing guidance that goes beyond the obvious impulse to protect economically valuable species salmon or aesthetically appealing ones snow leopards Although some recent books have considered the ecosystem services provided by biodiversity as an aggregate property this is the first to focus on the value of particular species It provides the scientific approaches and analyses available for asking what we can expect from losing or gaining

species The contributors are outstanding ecologists theoreticians and evolutionary biologists who gathered for a symposium honoring Robert T Paine the community ecologist who experimentally demonstrated that a single predator species can act as a keystone species whose removal dramatically alters entire ecosystem communities They build on Paine s work here by exploring whether we can identify species that play key roles in ecosystems before they are lost forever These are some of our finest ecologists asking some of our hardest questions They are in addition to the editors S E B Abella G C Chang D Doak A L Downing W T Edmondson A S Flecker M J Ford C D G Harley E G Leigh Jr S Lubetkin S M Louda M Marvier P McElhany B A Menge W F Morris S Naeem S R Palumbi A G Power T A Rand R B Root M Ruckelshaus J Ruesink D E Schindler T W Schoener D Simberloff D A Spiller M J Wonham and J T Wootton

The Knowledge Drive Edward J. Bardon, 2008-07 The Knowledge Drive is an optimistic book that demonstrates how new more accurate information conveys survival value and inevitably supplants our dysfunctional mythological beliefs Before there was time for the accumulation of knowledge early man created legends and religious myths to understand the world and ease the paralyzing awareness of his own mortality and the fear of natural forces beyond his control We are increasingly aware of how these magical beliefs can lead to divisive religious practices violence and mans continuing inhumanity to fellow man Change is clearly needed Now rapid advances in many fields are giving us the techniques to modify our evolution and curtail our virulence We can establish a more universal equitable morality based on more accurate intelligence about our origins and place in the universe Nevertheless it is up to us as a species to choose our own future directions We are thus in charge of our own destiny a threatening thought to many No prayers or appeals to magical forces will help Dr Bardon analyzes how our quest for knowledge is a basic human drive similar to the sex and nourishment drives It arises from our survival instinct and is not based on moral or altruistic factors Along with establishing knowledge as a source of power the author discusses the Knowledge Drive from many other perspectives its various motivations the fact that it can be used for many purposes even destructive ones how it learns from adversity how it often exacerbates inequality and how it does not solve social problems unless given the necessary direction Dr Bardon looks at the multiple forces aligned against our efforts to obtain more reliable information He shows how the Knowledge Drive not only triumphs over but also learns from these negative elements Warnings about the fragility of our search for knowledge are misguided it is rather the people mired in mythology who are vulnerable and need our compassion

Escape from the Ivory Tower Nancy Baron, 2010-08-13 In this practical and entertaining guide to communicating science Baron explains how to engage your audience and explain why a particular finding matters She explores how to ace your interview promote a paper enter the political fray and use new media to connect with your audience The book includes advice from journalists decision makers new media experts bloggers and some of the thousands of scientists who have participated in her communication workshops Many of the researchers she has worked with have gone on to become well known spokespeople for science related issues Whether you are an absolute beginner or a seasoned veteran looking to hone your skills *Escape From the Ivory*

Tower can help make your science understood appreciated and perhaps acted upon *Neon* National Research Council, Division on Earth and Life Studies, Board on Life Sciences, Committee on the National Ecological Observatory Network, 2004-01-15 The book endorses the National Science Foundation's concept of the National Ecological Observatory Network NEON for providing a nationwide network of facilities and infrastructure for ecological and environmental research that is impossible with existing infrastructure The committee identified six grand challenges in environmental biology biodiversity biogeochemical cycles climate change ecology and evolution of infectious diseases invasive species and land and habitat use that deserves high priority for research and needs to be addressed on a regional or continental scale However the book says that NEON needs a refined focus and a more detailed plan for its implementation to ensure the maximization of its contribution to science and to better fit within the purview of Major Research Equipment and Facilities Construction funding

Doing Environmental Ethics Robert Traer, 2019-08-28 *Doing Environmental Ethics* explains how we may transform our fossil fuel burning economy which continues to intensify our ecological crisis into a circular and ecological economy The text resists political corruption and personal greed by gleaning ethical insights from our philosophical and religious cultures and by embracing the scientific Gaia hypothesis for the Earth Its reasoning ascribes intrinsic worth to uplifting duties and rights as well as inspiring virtues and relationships and tests applying these values by predicting the likely consequences of acting on them It affirms all life has value for itself and that human life also values reasoning and feelings and being ethical The third edition examines US and international environmental policies through 2018 It analyzes the Trump administration's repudiation of the environmental policies of the Obama administration and its new rules slashing the social costs of climate change The text reviews a draft UN treaty that would impose human rights and environmental constraints on transnational corporations but it also highlights outstanding examples of corporate upcycling and low carbon innovation Finally the third edition explains why food security requires protecting the food sovereignty of farming communities and cooperatives as well as public policies ensuring fair profits for farmers practicing agro ecology

The Resistance Phenomenon in Microbes and Infectious Disease Vectors Institute of Medicine, Board on Global Health, Forum on Emerging Infections, 2003-03-26 The resistance topic is timely given current events The emergence of mysterious new diseases such as SARS and the looming threat of bioterrorist attacks remind us of how vulnerable we can be to infectious agents With advances in medical technologies we have tamed many former microbial foes yet with few new antimicrobial agents and vaccines in the pipeline and rapidly increasing drug resistance among infectious microbes we teeter on the brink of losing the upperhand in our ongoing struggle against these foes old and new The *Resistance Phenomenon in Microbes and Infectious Disease Vectors* examines our understanding of the relationships among microbes disease vectors and human hosts and explores possible new strategies for meeting the challenge of resistance

Transversal Ecocritical Praxis Patrick D. Murphy, 2013-06-20 In *Transversal Ecocritical Praxis* Theoretical Arguments Literary Analysis and Cultural Critique Patrick D Murphy Ph D utilizes

ecocriticism and ecofeminism to develop his concept of transversal practice an interdisciplinary combination of theory and applied criticism He begins by explaining the necessity for cutting across disciplinary boundaries of all kinds in order to address the ecological dimensions of culture and literature The dialogical foundation of this orientation is elaborated through a consideration of the theories of Mikhail Bakhtin particularly in terms of the ethical responsibilities of the reader and critic Murphy then takes up issues of identity and subject formation in relation to genetics embodiment and selfhood These same issues play out in the history of the aesthetic category of the sublime which the author critiques from an ecofeminist perspective Following that he turns attention to cultural issues of consumption both at home and internationally looking particularly at postcolonial literature and forms of resistance to globalizations and agricultural land grabs Resistance and postcolonial literature is further analyzed through consideration of two book length Latin American poetic sequences one by Pablo Neruda and the other by Ernesto Cardenal Switching from works focused on the present Murphy turns his attention then to how these themes play out in the future oriented worlds of science fiction He concludes with two chapters that combine ecocritical cultural critique and economic analysis in studies of the destructive role of megadams particularly in Asia and the impact of the combined threats of peak oil and climate change on one island s tourist economy The conclusion contains a discussion of further drivers of future ecocritical analysis Traversing a wide range of examples literary cultural and economic this work fleshes out the benefits of an ethically grounded interdisciplinary ecocriticism

Persuasive Aesthetic Ecocritical Praxis Patrick D. Murphy, 2015-08-20 Persuasive Aesthetic Ecocritical Praxis continues Patrick D Murphy s focus on transversal ecocritical praxis by considering literature and cinema in terms of the persuasive force of aesthetic activity and whether or not artistic production and its criticism can be considered forms of activism Murphy argues that literature and other forms of aesthetic production hold out the promise of being able to move some individuals deeply through both affective and intellectual engagement in ways that facilitate ideological reflection To analyze aesthetic production ecocritically requires a transversal orientation in order to work continuously at accommodating a vast array of often seemingly disparate perspectives disciplines and contextual information as well as the ever changing thematic plot setting and contextual elements of the aesthetic works under consideration and the responses of changing audiences through time and across cultures Murphy demonstrates this approach through presenting theories of transversality and applying them with attention to issues of propaganda agitation and persuasion both in terms of artistic production and the criticism of such production He also brings an ecofeminist orientation to the fore with particular attention to the gendered economic aspects of environmental issues in an age of land grabs and plantation economies Along the way he treats a wide range of literary works films and miniseries In American literature he discusses realist and science fiction works from Susan Fenimore Cooper s Rural Hours to Paolo Bacigalupi s The Windup Girl Barbara Kingsolver s Flight Behavior to Kim Stanley Robinson s 2312 and Ana Castillo s So Far from God to Leslie Marmon Silko s Gardens in the Dunes In international literature he

analyzes Mo Yan's *The Garlic Ballads*, Jiang Rong's *Wolf Totem*, Michiko Ishimure's *The Lake of Heaven*, Miyuki Miyabe's *All She Was Worth* and other novels. The book concludes with a reading of Ernest Callenbach's *Ecotopia* and *Ecotopia Emerging*, an Afterword recommending further directions for transversal ecocritical research, and an interview that discusses Murphy's previous book *Transversal Ecocritical Praxis* and provides some personal background on the author.

Strickberger's Evolution Brian Keith Hall, Benedikt Hallgrímsson, Monroe W. Strickberger, 2014. The fifth Edition of Strickberger's *Evolution* is updated with the latest data and updates from the field. The authors took care to carefully modify the chapter order in an effort to provide a more clear and student friendly presentation of course material. The original scope and theme of this popular text remains as it continues to present an overview of prevailing evidence and theories about evolution by discussing how the world and its organisms arose and changed over time. New boxed features concentrating on modern and exciting research in the field are included throughout the text. New and Key Features of the Fifth Edition: New Full color design and art program. Maintains the student friendly engaging writing style for which it is known. A reorganized chapter order provides a more clear and accessible presentation of course material. Chapters on the evolution of biodiversity are now found on the text's website. Access to the companion website is included with every new copy of the text. New boxed features highlight new and exciting research in the field.

Embodied Wisdom Joy Colangelo, 2003-11. *Embodied wisdom* tells us that we have a great capacity to change brain function through proper movement. But powerful culture pressures dictate the way we move and underlies some of our personal failures, our aches and pains, and our feelings of apathy when it comes to changing our lives. Page 3 of cover.

Chronology of the Evolution-Creationism Controversy Randy Moore, Mark Decker, Sehoya H. Cotner, 2009-11-25. A unique chronology with entries describing the key events in the 3 000 year conflict between religion and science over the explanation and definition of life on Earth. Exhaustively researched and authoritative, *Chronology of the Evolution-Creationism Controversy* does what no other work does: it examines the conflict between the religious and scientific views of life on Earth in its full 3 000 year historical context, showing readers how this roiling debate has played out over the centuries. With hundreds of entries, *Chronology of the Evolution-Creationism Controversy* describes specific cultural, religious, and scientific events relevant to the evolution-creationism controversy from the first notions of creationism in ancient Egypt to the present. Within this historical approach, it identifies a number of recurring themes that have shaped the debate through the ages, including famous court cases, the recurrence of the intelligent design argument, disagreements over the age of the Earth, and the impact of technological advances on both the scientific and faith-based viewpoints. While approaching the subject globally throughout the book, its second half focuses on tensions between science and religious thought in the United States since the early 1900s.

Greening the Economy Robert Williams, 2010-09-13. Drawing on both economics and ecology, this book offers telling insights into the confusing jobs versus environment debates, as well as charts a recommended path towards a more co-habitable relationship. Avoiding the extreme views that economic growth will either destroy or save

our natural environment this book takes a more discriminating stance and illuminates why our nation's natural environment is both better and worse than forty years ago *The Technocene* Hermínio Martins, 2018-12-15 Hermínio Martins was one of the key pioneers of the sociology of science and technology. He published extensively in Portuguese and was recognized for his academic contributions with an honorary doctorate at Lisbon 2006 and two Portuguese Medals of Honour. Following his retirement from the University of Oxford, he wrote prolifically in English on a wide range of topics that examined the ethical and societal consequences of the commoditization of the human body and mind. These essays are deep philosophical reflections on our contemporary world and draw extensively and eclectically upon a wide range of theoretical influences including continental philosophy, history and psychology to name but a few disciplines. *The Technocene* is a selection of some of these insightful essays made available to a global audience for the first time *Emerging Infectious Diseases and Society* P. Washer, 2010-05-07 In the 1970s it seemed infectious diseases had been conquered but today global epidemics seem to pose a new, more sinister threat. This fascinating study explores these new infectious diseases such as Swine Flu, SARS and AIDS and the re-emergence of old threats and discusses their role in society *What is Environmental History?* J. Donald Hughes, 2015-11-30 What is environmental history? It is a kind of history that seeks understanding of human beings as they have lived, worked and thought in relationship to the rest of nature through the changes brought by time. In this new edition of his seminal student textbook J. Donald Hughes provides a masterful overview of the thinkers, topics and perspectives that have come to constitute the exciting discipline that is environmental history. He does so on a global scale, drawing together disparate trends from a rich variety of countries into a unified whole, illuminating trends and key themes in the process. Those already familiar with the discipline will find themselves invited to think about the subject in a new way. This new edition has been updated to reflect recent developments, trends and new work in environmental history as well as a brand new note on its possible future. Students and scholars new to environmental history will find the book both an indispensable guide and a rich source of inspiration for future work.

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