

# **Tempo and Mode in Evolution: Genetics and Paleontology 50 Years After Simpson**

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# Tempo And Mode In Evolution Genetics And Paleontology 50 Years After Simpson

**National Academy Press (U.S.)**



## **Tempo And Mode In Evolution Genetics And Paleontology 50 Years After Simpson:**

**Tempo and Mode in Evolution** for the National Academy of Sciences, 1995-02-26 Since George Gaylord Simpson published *Tempo and Mode in Evolution* in 1944 discoveries in paleontology and genetics have abounded This volume brings together the findings and insights of today's leading experts in the study of evolution including Ayala W Ford Doolittle and Stephen Jay Gould The volume examines early cellular evolution explores changes in the tempo of evolution between the Precambrian and Phanerozoic periods and reconstructs the Cambrian evolutionary burst Long neglected despite Darwin's interest in it species extinction is discussed in detail Although the absence of data kept Simpson from exploring human evolution in his book the current volume covers morphological and genetic changes in human populations contradicting the popular claim that all modern humans descend from a single woman This book discusses the role of molecular clocks the results of evolution in 12 populations of *Escherichia coli* propagated for 10 000 generations a physical map of *Drosophila* chromosomes and evidence for hitchhiking by mutations

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**Tempo and Mode in Evolution** National Academy of Sciences (US), 1995

**25 Facts About House Cats** B. J. Deming, 2021-02-23 Not a listicle just a close look at house cats and a few parts of their world Fluffy a domesticated steppe wildcat still has one paw in the wild but some ten thousand years with us have changed this little member of family Felidae in subtle ways Check out these 25 easy to understand essays on house cats their history and some details of our long journey together

*Descended from Darwin* Joe Cain, Michael Ruse, 2009 This vol has its origins in a conference held October 22 23 2004 at the Amer Philosophical Society APS Library Phila The main focus was on evolutionary studies in America before during and after the famous synthesis period of the 1930s and 1940s The synthesis period has been the focus of substantial new research and important new thinking This vol brings together 15 specialists to explore these developments and to press further Questions shaping these essays focus on the following broad themes Continuity and breaks across generations Emerging narratives for the period New research opportunities at the APS New ideas from the research front Placing evolutionists in the broader

context of biology and Future directions Also includes a thoughtful intro by Michael Ruse      Systematics and the Origin of Species National Academy of Sciences,2005-10-28 In December 2004 the National Academy of Sciences sponsored a colloquium on Systematics and the Origin of Species to celebrate Ernst Mayr s 100th anniversary and to explore current knowledge concerning the origin of species In 1942 Ernst Mayr one of the twentieth century s greatest scientists published *Systematics and the Origin of Species* a seminal book of the modern theory of evolution where he advanced the significance of population variation in the understanding of evolutionary process and the origin of new species Mayr formulated the transition from Linnaeus s static species concept to the dynamic species concept of the modern theory of evolution and emphasized the species as a community of populations the role of reproductive isolation and the ecological interactions between species In addition to a preceding essay by Edward O Wilson this book includes the 16 papers presented by distinguished evolutionists at the colloquium The papers are organized into sections covering the origins of species barriers the processes of species divergence the nature of species the meaning of species and genomic approaches for understanding diversity and speciation      *Unity and Disunity in Evolutionary Biology* Richard G. Delisle,Maurizio Esposito,David Ceccarelli,2024-09-02 It is not uncommon to see in major areas of research concerned with science that historical studies are accompanied by the rise of complementary or contradictory historiographies With time it seems scholars discover new approaches to study topics thus questioning old concepts traditions periodizations and historical labels Apparently this has not been the case in evolutionary thought In that area the main historiographic labels such as Darwinian Revolution Eclipse of Darwinism and Modern Synthesis have been in place and largely uncontested for about 50 years Such labels seem to work as irrefutable and often hidden premises of many historical reconstructions philosophical analyses and scientific conceptualizations This volume aims to move beyond this state of affair opening new thinking avenues by revisiting the traditional historiography and laying the groundwork for establishing a new historiography that considers the intertwined threads that compose evolutionary biology Notably evolutionary studies seem to have been marked by the tension between unification attempts and the proliferation of approaches methodologies and styles of thinking As the contributors to this volume illustrate research traditions branched off throughout the history of evolutionary thought before and after Charles Darwin The resulting complexity challenges traditional thinking categories throwing a somewhat different light on a more recent label like the Extended Evolutionary Synthesis More than 40 years after the now classic *The Evolutionary Synthesis Perspectives on the Unification of Biology* 1980 edited by Ernst Mayr and William Provine the contributors to this volume aim to reevaluate where evolutionary biology stands today      **New and Forthcoming Books** National Academy Press (U.S.),1993      **Evolutionary Theory and Processes: Modern Perspectives** Solomon P. Wasser,2012-12-06 This volume consists of papers written by evolutionary molecular and organismal biologists geneticists ecologists behavioural ecologists morphologists mathematicians theoreticians and experimentalists in honour of Professor Eviatar Eibi Nevo on the occasion of

his seventieth birthday The contributors are only a small subset of Eibi's many friends collaborators and students not that one can distinguish these categories among Eibi's colleagues His widespread influence and activity both in Israel and more generally as a leading evolutionary biologist is indicated by his many co authors on books and papers and by his many students integrated in teaching and research This volume presents some of the most recent dramatic results of molecular genomic and organismal evolutionary processes It represents analyses experiments observations reviews discussions and forecasts of evolutionary theory comprising both novel methods and results reanalyzed and reviewed data sets based on comparative experimental and theoretical studies utilizing model organisms across phylogeny including bacteria fungi plants animals and humans It elucidates the revolution in molecular biology that ushered in our understanding of the evolutionary process over time and space The topics discussed include major problems of evolutionary theory concerning origins phylogeny relative importance of evolutionary forces structure and function adaptation and speciation in space and time in changing and stressful environments A major emerging generalization is the nonrandomness of genome structure highlighting the importance of natural selection as a major organizing evolutionary force not only at the phenotypic level but most importantly at the interlinked genotypic molecular level The integration between the molecular and organismal levels unifies life which is subjected to the mechanism of natural selection as a major orienting evolutionary force

The Nature of Diversity Daniel R. Brooks, Deborah A. McLennan, 2012-04-26 All living things on earth from individual species to entire ecosystems have evolved through time and evolution is the acknowledged framework of modern biology Yet many areas of biology have moved from a focus on evolution to much narrower perspectives Daniel R Brooks and Deborah A McLennan argue that it is impossible to comprehend the nature of life on earth unless evolution the history of organisms is restored to a central position in research They demonstrate how the phylogenetic approach can be integrated with ecological and behavioral studies to produce a richer and more complete picture of evolution Clearly setting out the conceptual methodological and empirical foundations of their research program Brooks and McLennan show how scientists can use it to unravel the evolutionary history of virtually any characteristic of any living thing from behaviors to ecosystems They illustrate and test their approach with examples drawn from a wide variety of species and habitats The Nature of Diversity provides a powerful new tool for understanding documenting and preserving the world's biodiversity It is an essential book for biologists working in evolution ecology behavior conservation and systematics The argument in The Nature of Diversity greatly expands upon and refines the arguments made in the authors previous book *Phylogeny Ecology and Behavior*

*Sex and Death* Kim Sterelny, Paul E. Griffiths, 2024-05-31 Is the history of life a series of accidents or a drama scripted by selfish genes Is there an essential human nature determined at birth or in a distant evolutionary past What should we conserve species ecosystems or something else Informed answers to questions like these critical to our understanding of ourselves and the world around us require both a knowledge of biology and a philosophical framework within which to make sense of its

findings In this accessible introduction to philosophy of biology Kim Sterelny and Paul E Griffiths present both the science and the philosophical context necessary for a critical understanding of the most exciting debates shaping biology today The authors both of whom have published extensively in this field describe the range of competing views including their own on these fascinating topics With its clear explanations of both biological and philosophical concepts Sex and Death will appeal not only to undergraduates but also to the many general readers eager to think critically about the science of life

The Major Transitions in Evolution Revisited Brett Calcott, Kim Sterelny, 2011-04-22 Drawing on recent advances in evolutionary biology prominent scholars return to the question posed in a pathbreaking book how evolution itself evolved In 1995 John Maynard Smith and E rs Szathm ry published their influential book The Major Transitions in Evolution The transitions that Maynard Smith and Szathm ry chose to describe all constituted major changes in the kinds of organisms that existed but most important these events also transformed the evolutionary process itself The evolution of new levels of biological organization such as chromosomes cells multicelled organisms and complex social groups radically changed the kinds of individuals natural selection could act upon Many of these events also produced revolutionary changes in the process of inheritance by expanding the range and fidelity of transmission establishing new inheritance channels and developing more open ended sources of variation Maynard Smith and Szathm ry had planned a major revision of their work but the death of Maynard Smith in 2004 prevented this In this volume prominent scholars including Szathm ry himself reconsider and extend the earlier book s themes in light of recent developments in evolutionary biology The contributors discuss different frameworks for understanding macroevolution prokaryote evolution the study of which has been aided by developments in molecular biology and the complex evolution of multicellularity

Origins of Biocomplexity Olga Vasieva, 2025-11-03 This book presents life phenomena in terms of physics with an element of philosophy It is written for university graduates and undergraduate students who are yet to see that there is no clean cut between the different sciences The physics concepts of nonlinearity equilibrium energy entropy system and information are applied to the biological processes of metabolism organism development and evolution

*Perspectives on an Evolving Creation* Keith B. Miller, 2003-09-25 According to the authors of this book who explore evolutionary theory from a clear Christian perspective the common view of conflict between evolutionary theory and Christian faith is mistaken Written by contributors representing the natural sciences philosophy theology and the history of science this thought provoking work is informed by both solid scientific knowledge and keen theological insight The three sections of the book address 1 relevant biblical historical and scientific background 2 the scientific evidence for an evolving creation and 3 theological issues commonly raised in connection with evolution including the nature of God s creative activity the meaning of the miraculous and the uniqueness of humankind Woven through the volume are short meditations designed to direct readers toward worshipping the God of providence Contributors Laurie J Braaten Warren S Brown Jr David Campbell Robin Collins Edward B Davis Terry M Gray Jeffrey K Greenberg Deborah B

Haarsma Loren Haarsma James P Hurd Conrad Hyers David N Livingstone Keith B Miller John C Munday Jr George L Murphy Mark A Noll Robert John Russell Howard J Van Till David L Wilcox Jennifer Wiseman     *The Nature of Life and Its Potential to Survive* David S. Stevenson, 2017-05-25 This book looks at the persistence of life and how difficult it would be to annihilate life especially a species as successful as humanity The idea that life in general is fragile is challenged by the hardiness of microbes which shows that astrobiology on exoplanets and other satellites must be robust and plentiful Microbes have adapted to virtually every niche on the planet from the deep hot biosphere to the frigid heights of the upper troposphere Life it seems is almost indestructible The chapters in this work examine the various scenarios that might lead to the extermination of life and why they will almost always fail Life s highly adaptive nature ensures that it will cling on no matter how difficult the circumstances Scientists are increasingly probing and questioning life s true limits in on and above the Earth and how these limits could be pushed elsewhere in the universe This investigation puts life in its true astronomical context with the reader taken on a journey to illustrate life s potential and perseverance     *Evolution Illuminated* Andrew P. Hendry, Stephen C. Stearns, 2004 This work gives a critical overview on the evolution and population biology of salmon and their relatives It should appeal to investigators in each of the scientific disciplines it integrates evolutionary biology ecology salmonid biology management and conservation Variation in salmonids can be used to illustrate virtually all evolution

*Photosynthetic Adaptation* William K Smith, Thomas C. Vogelmann, Christa Critchley, 2010-02-20 Photosynthetic Adaptation Chloroplast to Landscape thoroughly studies photosynthetic mechanisms at each structural level from cells to leaves crown and canopy The authors question whether photosynthetic adaptations take place primarily at the metabolic and biochemical level or through changes in structure and form or both In the interest of genetic engineering and agricultural applications the authors analyze the relative importance of genes that control both metabolic and light reactions as well as the structure arrangement and orientation of photosynthesis     *The Origin of Higher Taxa* T.S. Kemp, 2015-12-16 In the grand sweep of evolution the origin of radically new kinds of organisms in the fossil record is the result of a relatively simple process natural selection marching through the ages Or is it Does Darwinian evolution acting over a sufficiently long period of time really offer a complete explanation or are unusual genetic events and particular environmental and ecological circumstances also involved With *The Origin of Higher Taxa* Tom Kemp sifts through the layers of paleobiological genetic and ecological evidence on a quest to answer this essential game changing question of biology Looking beyond the microevolutionary force of Darwinian natural selection Kemp enters the realm of macroevolution or evolution above the species level From the origin of mammals to the radiation of flowering plants these large scale patterns such as the rise of novel organismal design adaptive radiations and lineage extinctions encompass the most significant trends and transformations in evolution As macroevolution cannot be studied by direct observation and experiment scientists have to rely on the outcome of evolution as evidence for the processes at work in the form of patterns of species appearances and

extinctions in a spotty fossil record and through the nature of species extant today Marshalling a wealth of new fossil and molecular evidence and increasingly sophisticated techniques for their study Kemp here offers a timely and original reinterpretation of how higher taxa such as arthropods mollusks mammals birds and whales evolved a bold new take on the history of life

**Science and Religion in Search of Cosmic Purpose** John F. Haught, 2000-03-03 Many scientists today think of the universe as essentially purposeless Likewise modern and postmodern philosophers have often been suspicious of any religious claims that the natural world embodies eternal meaning or teleology Not all scientific thinkers subscribe to this cosmic pessimism however and some would even argue that contemporary knowledge is consistent with a religious sense of cosmic purpose This stimulating book offers candid reflections on the question of cosmic purpose written both by prominent scientists and by scholars representing the world's religious traditions Examining the issue from a wide variety of perspectives this is the only current book to deal with cosmic purpose from an interreligious and interdisciplinary perspective Here scientists such as physicist Andrei Linde and biologist Francisco Ayala come face to face with Islamic scholar Seyyed Hossein Nasr Hindu philosopher Anindita Niyogi Balslev and others They examine such perplexing issues as the possible existence of multiple universes and the implications of seemingly purposive features in life The contributions address the question of whether a religiously based notion of a purposeful cosmos is consistent with the latest scientific understanding of nature and whether theology can affirm the presence of divine action without contradicting science These essays will challenge readers to ponder their own place in the cosmos as they seek to interpret the visions of the world's great spiritual traditions in the light of natural science

[Red Dwarfs](#) David S. Stevenson, 2019-09-11 This thought provoking book looks at the nature of red dwarf systems as potential homes for life Realistically what are the prospects for life on these distant worlds Could life evolve and survive there How do these planetary surfaces and geologies evolve How would life on a planet orbiting a red dwarf differ from life on Earth And what are the implications for finding further habitable worlds in our galaxy The author provides readers with insight into the habitability of planets and how this changes as time progresses and the central star evolves Since the previous 2013 edition *Under a Crimson Sun* there has been a rise in newly discovered planets orbiting red dwarfs accompanied by controversial areas of research that test what we think we know about these systems This revised edition delves into the wealth of new material uncovered since that date It explains the often conflicting results and analyses put forward and clarifies our understanding of these exciting new worlds The chapters explore the full width of relevant scientific discovery and speculation on the potential for red dwarf planets to host life New content includes improved atmospheric models new understandings of the impact of stellar radiation on the atmosphere of red dwarf worlds tidal locking and comparisons with terrestrial geology and climate



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