

Complex Evolution

Nick Lane

Evolution, Development and Complexity Georgi Yordanov Georgiev, John M. Smart, Claudio L. Flores Martinez, Michael E. Price, 2019-06-25 This book explores the universe and its subsystems from the three lenses of evolutionary (contingent), developmental (predictable), and complex (adaptive) processes at all scales. It draws from prolific experts within the academic disciplines of complexity science, physical science, information and computer science, theoretical and evo-devo biology, cosmology, astrobiology, evolutionary theory, developmental theory, and philosophy. The chapters come from a Satellite Meeting, Evolution, Development and Complexity (EDC) hosted at the Conference on Complex Systems, in Cancun, 2017. The contributions have been peer-reviewed and contributors from outside the conference were invited to submit chapters to ensure full coverage of the topics. This book explores many issues within the field of EDC such as the interaction of evolutionary stochasticity and developmental determinism in biological systems and what they might teach us about these twin processes in other complex systems. This text will appeal to students and researchers within the complex systems and EDC fields.

Complexity and Evolution David S. Wilson, Alan Kirman, 2016-08-19 An exploration of how approaches that draw on evolutionary theory and complexity science can advance our understanding of economics. Two widely heralded yet contested approaches to economics have emerged in recent years: one emphasizes evolutionary theory in terms of individuals and institutions; the other views economies as complex adaptive systems. In this book, leading scholars examine these two bodies of theory, exploring their possible impact on economics. Relevant concepts from evolutionary theory drawn on by the contributors include the distinction between proximate and ultimate causation, multilevel selection, cultural change as an evolutionary process, and human psychology as a product of gene-culture coevolution. Applicable ideas from complexity theory include self-organization, fractals, chaos theory, sensitive dependence, basins of attraction, and path dependence. The contributors discuss a synthesis of complexity and evolutionary approaches and the challenges that emerge. Focusing on evolutionary behavioral economics, and the evolution of institutions, they offer practical applications and point to avenues for future research. Contributors Robert Axtell, Jenna Bednar, Eric D. Beinhocker, Adrian V. Bell, Terence C. Burnham, Julia Chelen, David Colander, Iain D. Couzin, Thomas E. Currie, Joshua M. Epstein, Daniel Fricke, Herbert Gintis, Paul W. Glimcher, John Gowdy, Thorsten Hens, Michael E. Hochberg, Alan Kirman, Robert Kurzban, Leonhard Lades, Stephen E. G. Lea, John E. Mayfield, Mariana Mazzucato, Kevin McCabe, John F. Padgett, Scott E. Page, Karthik Panchanathan, Peter J. Richerson, Peter Schuster, Georg Schwesinger, Rajiv Sethi, Enrico Spolaore, Sven Steinmo, Miriam Teschl, Peter Turchin, Jeroen C. J. M. van den Bergh, Sander E. van der Leeuw, Romain Wacziarg, John J. Wallis, David S. Wilson, Ulrich Witt

That Complex Whole Lee Cronk, 2019-05-20 Our understanding of the evolution of human behavior has grown enormously over the past few decades, and an increasing number of behavioral and social scientists are making use of evolutionary theory in their work to shed light on issues ranging from marriage and parenting to the study of mental illness. The success of this research program is three

The Evolution of Complexity by Means of Natural Selection John Tyler Bonner, 1988-08-21 Bonner makes a new attack on an old problem: the question of how progressive increase in the size and complexity of animals and plants has occurred. The book shows how an understanding of the grand course of evolution can come from combining our knowledge of genetics, development, ecology, and even behavior. *Lightning Print On Demand Title

Evolutionary Biology Pierre Pontarotti, 2016-09-20 This book presents selected contributions to the 19th Evolutionary Biology Meeting, which took place in September 2015 in Marseille. It consists of 22 chapters, which are grouped in four sections: · Convergent Evolution · Evolution of Complex Traits · Concepts · Methods The annual Evolutionary Biology Meetings in Marseille serve to gather leading evolutionary biologists and other scientists using evolutionary biology concepts, e.g for medical research, to promote the exchange of ideas and to encourage interdisciplinary collaborations. Offering an up-to-date overview of recent findings in the field of evolutionary biology,

this book is an invaluable source of information for scientists, teachers and advanced students.

Building the Most Complex Structure on Earth Nelson R. Cabej, 2013-04-01 *Building the Most Complex Structure on Earth* provides readers with a basic biological education an easy and understandable introduction into a new epigenetic theory of development and evolution. This is a novel theory that describes the epigenetic mechanisms of the development and evolution of animals and explains the colossal evolution and diversification of animals from a new post-genetic perspective. Modern biology has demonstrated the existence of a common genetic toolkit in the animal kingdom, but neither the number of genes nor the evolution of new genes is responsible for the development and evolution of animals. The failure to understand how the same genetic toolkit is used to produce millions of widely different animal forms remains a perplexing conundrum in modern biology. The novel theory shows that the development and evolution of the animal kingdom are functions of epigenetic mechanisms, which are the competent users of the genetic toolkit. Provides a comprehensive view of the epigenetic aspects of reproduction, development, and evolution. Highly rigorous, but simple enough for readers with only a basic knowledge of biology.

How the Leopard Changed Its Spots Brian Goodwin, 2020-09-01 Do genes explain life? Can advances in evolutionary and molecular biology account for what we look like, how we behave, and why we die? In this powerful intervention into current biological thinking, Brian Goodwin argues that such genetic reductionism has important limits. Drawing on the sciences of complexity, the author shows how an understanding of the self-organizing patterns of networks is necessary for making sense of nature. Genes are important, but only as part of a process constrained by environment, physical laws, and the universal tendencies of complex adaptive systems. In a new preface for this edition, Goodwin reflects on the advances in both genetics and the sciences of complexity since the book's original publication.

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 Eörs Szathmáry published their influential book *The Major Transitions in Evolution*. The transitions that Maynard Smith and Szathmáry 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 Szathmáry had planned a major revision of their work, but the death of Maynard Smith in 2004 prevented this. In this volume, prominent scholars (including Szathmáry 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.

Evolutionary Biology: Self/Nonself Evolution, Species and Complex Traits Evolution, Methods and Concepts Pierre Pontarotti, 2017-08-08 This book presents 19 selected contributions to the 20th Evolutionary Biology Meeting in Marseille, which took place in September 2016. They are grouped under the following major themes: · Self/Nonself Evolution · Species Evolution and Evolution of Complex Traits · Methods and Concepts The aims of the annual meetings in Marseille – which bring together leading evolutionary biologists and other scientists using evolutionary biology concepts, e.g. for medical research – are to promote the exchange of ideas and to encourage interdisciplinary collaborations. Offering a revealing overview of the latest findings in the field of evolutionary biology, this book represents an invaluable source of information for scientists, teachers and advanced students alike.

Evolution, Development and Complexity Georgi Yordanov Georgiev, 2019 This book explores the universe and its subsystems from the three lenses of evolutionary (diversifying), developmental

(converging), and complex (adaptive) processes at all scales. It draws from prolific experts within the academic disciplines of complexity science, physical science, information and computer science, theoretical and evo-devo biology, cosmology, astrobiology, evolutionary theory, developmental theory, and philosophy. The chapters come from a Satellite Meeting, Evolution, Development and Complexity (EDC) hosted at the Conference on Complex Systems, in Cancun, 2017. The contributions will be peer-reviewed and contributors from outside the conference will be invited to submit chapters to ensure full coverage of the topics. This book explores many issues within the field of EDC such as the interaction of evolutionary stochasticity and developmental determinism in biological systems and what they might teach us about these twin processes in other complex systems. This text will appeal to students and researchers within the complex systems and EDC fields. .

The Vital Question: Energy, Evolution, and the Origins of Complex Life Nick Lane, 2015-07-20
 “One of the deepest, most illuminating books about the history of life to have been published in recent years.” —The Economist
 The Earth teems with life: in its oceans, forests, skies and cities. Yet there’s a black hole at the heart of biology. We do not know why complex life is the way it is, or, for that matter, how life first began. In *The Vital Question*, award-winning author and biochemist Nick Lane radically reframes evolutionary history, putting forward a solution to conundrums that have puzzled generations of scientists. For two and a half billion years, from the very origins of life, single-celled organisms such as bacteria evolved without changing their basic form. Then, on just one occasion in four billion years, they made the jump to complexity. All complex life, from mushrooms to man, shares puzzling features, such as sex, which are unknown in bacteria. How and why did this radical transformation happen? The answer, Lane argues, lies in energy: all life on Earth lives off a voltage with the strength of a lightning bolt. Building on the pillars of evolutionary theory, Lane’s hypothesis draws on cutting-edge research into the link between energy and cell biology, in order to deliver a compelling account of evolution from the very origins of life to the emergence of multicellular organisms, while offering deep insights into our own lives and deaths. Both rigorous and enchanting, *The Vital Question* provides a solution to life’s vital question: why are we as we are, and indeed, why are we here at all?

The Evolution of Complex and Higher Organisms Ames Research Center, 1985
 A report prepared by the participants of workshops held at NASA Ames Research Center, Moffett Field, California, July 1981, January 1982, and May 1982.

Evolution and the Emergent Self Raymond L. Neubauer, 2012
 This book examines how humans evolved from the cosmos and prebiotic earth and what types of biological, chemical, and physical sciences drove this complex process. The author presents his view of nature which attributes the rising complexity of life to the continual increasing of information content, first in genes and then in brains.

The Engine of Complexity John E. Mayfield, 2013-07-09
 The concepts of evolution and complexity theory have become part of the intellectual ether permeating the life sciences, the social and behavioral sciences, and, more recently, management science and economics. In this book, John E. Mayfield elegantly synthesizes core concepts from multiple disciplines to offer a new approach to understanding how evolution works and how complex organisms, structures, organizations, and social orders can and do arise based on information theory and computational science. Intended for the intellectually adventuresome, this book challenges and rewards readers with a nuanced understanding of evolution and complexity that offers consistent, durable, and coherent explanations for major aspects of our life experiences. Numerous examples throughout the book illustrate evolution and complexity formation in action and highlight the core function of computation lying at the work's heart.

The Cooperative Gene Mark Ridley, 2001
 Why isn't all life pond-scum? Why are there multimillion-celled, long-lived monsters like us, built from tens of thousands of cooperating genes? Mark Ridley presents a new explanation of how complex large life forms like ourselves came to exist, showing that the answer to the greatest mystery of evolution for modern science is not the selfish

gene; it is the cooperative gene. In this thought-provoking book, Ridley breaks down how two major biological hurdles had to be overcome in order to allow living complexity to evolve: the proliferation of genes and gene-selfishness. Because complex life has more genes than simple life, the increase in gene numbers poses a particular problem for complex beings.--BOOK JACKET.

Modular Evolution Lucio Vinicius, 2010-07-15 Natural selection is more than the survival of the fittest: it is a force engendering higher biological complexity. Presenting a new explanation for the tendency of life to become more complex through evolution, this book offers an introduction to the key debates in evolutionary theory, including the role of genes and sex in evolution, the adaptive reasons for senescence and death and the origin of neural information. The author argues that biological complexity increased through the process of 'modularity transfer': modular phenotypes (proteins, somatic cells, learned behaviours) evolved into new modular information carriers (regulatory proteins, neural cells, words), giving rise to new information systems and higher levels of biological organisation. *Modular Evolution* makes sense of the unique place of humans in evolution, both as the pinnacle of biological complexity and inventors of non-biological evolution.

In the Light of Evolution National Academy of Sciences, 2007-12-28 In December 2006, the National Academy of Sciences sponsored a colloquium (featured as part of the Arthur M. Sackler Colloquia series) on Adaptation and Complex Design to synthesize recent empirical findings and conceptual approaches toward understanding the evolutionary origins and maintenance of complex adaptations. Darwin's elucidation of natural selection as a creative natural force was a monumental achievement in the history of science, but a century and a half later some religious believers still contend that biotic complexity registers conscious supernatural design. In this book, modern scientific perspectives are presented on the evolutionary origin and maintenance of complex phenotypes including various behaviors, anatomies, and physiologies. After an introduction by the editors and an opening historical and conceptual essay by Francisco Ayala, this book includes 14 papers presented by distinguished evolutionists at the colloquium. The papers are organized into sections covering epistemological approaches to the study of biocomplexity, a hierarchy of topics on biological complexity ranging from ontogeny to symbiosis, and case studies explaining how complex phenotypes are being dissected in terms of genetics and development.

Cosmic Evolution Eric J. Chaisson, 2001-02-16 Chaisson addresses some of the most basic issues we can contemplate: the origin of matter and the origin of life, and the ways matter, life, and radiation interact and change with time. He designs for us an expansive yet intricate model depicting the origin and evolution of all material structures.

Phenotypic Integration Massimo Pigliucci, Katherine A. Preston, 2004 The interface of evolution and development has attracted the attention of evolutionary and developmental biologists, geneticists, and organismal biologists. Pigliucci (ecology, evolutionary biology, University of Tennessee) and Preston (botany, Stanford University) bring together work by experts in the field of phenotype integration, shedding light.

Chaos and Life Richard J. Bird, 2003-11-26 Why, in a scientific age, do people routinely turn to astrologers, mediums, cultists, and every kind of irrational practitioner rather than to science to meet their spiritual needs? The answer, according to Richard J. Bird, is that science, especially biology, has embraced a view of life that renders meaningless the coincidences, serendipities, and other seemingly significant occurrences that fill people's everyday existence. Evolutionary biology rests on the assumption that although events are fundamentally random, some are selected because they are better adapted than others to the surrounding world. This book proposes an alternative view of evolving complexity. Bird argues that randomness means not disorder but infinite order. Complexity arises not from many random events of natural selection (although these are not unimportant) but from the playing out of chaotic systems—which are best described mathematically. When we properly understand the complex interplay of chaos and life, Bird contends, we will see that many events that appear random are actually the outcome of order.

The Top Books of the Year Complex Evolution The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have enthralled audiences this year. Complex Evolution : Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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