

# The Shape of Life

GENES, DEVELOPMENT, AND THE  
EVOLUTION OF ANIMAL FORM



RUDOLF A. RAFF

# Shape Of Life Genes Development And The Evolution Of Animal Form

**Brian K. Hall, Sally A. Moody**



## **Shape Of Life Genes Development And The Evolution Of Animal Form:**

*The Shape of Life* Rudolf A. Raff, 1996-06-15 Rudolf Raff is recognized as a pioneer in evolutionary developmental biology. In their 1983 book *Embryos, Genes and Evolution*, Raff and co-author Thomas Kaufman proposed a synthesis of developmental and evolutionary biology. In *The Shape of Life*, Raff analyzes the rise of this new experimental discipline and lays out new research questions, hypotheses, and approaches to guide its development. Raff uses the evolution of animal body plans to exemplify the interplay between developmental mechanisms and evolutionary patterns. Animal body plans emerged half a billion years ago. Evolution within these body plans during this span of time has resulted in the tremendous diversity of living animal forms. Raff argues for an integrated approach to the study of the intertwined roles of development and evolution involving phylogenetic, comparative, and functional biology. This new synthesis will interest not only scientists working in these areas but also paleontologists, zoologists, morphologists, molecular biologists, and geneticists. **Understanding**

**Evo-Devo** Wallace Arthur, 2021-05-27 Why do the best known examples of evolutionary change involve the alteration of one kind of animal into another very similar one, like the evolution of a bigger beak in a bird? Wouldn't it be much more interesting to understand how beaks originated? Most people would agree, but until recently we didn't know much about such origins. That is now changing with the growth of the interdisciplinary field *evo devo*, which deals with the relationship between how embryos develop in the short term and how they and the adults they grow into evolve in the long term. One of the key questions is: can the origins of structures such as beaks, eyes, and shells be explained within a Darwinian framework? The answer seems to be yes, but only by expanding that framework. This book discusses the required expansion and the current state of play regarding our understanding of evolutionary and developmental origins. **Comparative Developmental**

**Physiology** Stephen J. Warburton, 2006 Presenting assessments of work in the field of developmental physiology from experimental, theoretical, and molecular perspectives, this text examines the future directions this key area will take.

Politically Incorrect Guide to Darwinism and Intelligent Design Jonathan Wells, 2006-08-21 Darwin is an emperor who has no clothes, but it takes a brave man to say so. Jonathan Wells, a microbiologist with two Ph.D.s from Berkeley and Yale, is that brave man. Most textbooks on evolution are written by Darwinists with an ideological axe to grind. Brave dissidents, qualified scientists who try to teach or write about intelligent design, are silenced and sent to the academic gulag. But fear not: Jonathan Wells is a liberator. He unmask the truth about Darwinism, why it is wrong, and what the real evidence is. He also supplies a revealing list of Books You're Not Supposed to Read as far as the Darwinists are concerned, and puts it at your fingertips. All the evidence you need to challenge the most closed-minded Darwinist. Cells in Evolutionary Biology Brian K. Hall, Sally A. Moody, 2018-06-12 This book is the first in a projected series on Evolutionary Cell Biology, the intent of which is to demonstrate the essential role of cellular mechanisms in transforming the genotype into the phenotype by transforming gene activity into evolutionary change in morphology. This book, *Cells in Evolutionary Biology*, evaluates the evolution of cells.

themselves and the role cells have been viewed to play as agents of change at other levels of biological organization Chapters explore Darwin s use of cells in his theory of evolution and how Weismann s theory of the separation of germ plasm from body cells brought cells to center stage in understanding how acquired changes to cells within generations are not passed on to future generations Chapter 7 of this book is freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license

**Evolutionary Perspectives on Social Psychology** Virgil Zeigler-Hill, Lisa L. M. Welling, Todd K. Shackelford, 2015-05-06 This wide ranging collection demonstrates the continuing impact of evolutionary thinking on social psychology research This perspective is explored in the larger context of social psychology which is divisible into several major areas including social cognition the self attitudes and attitude change interpersonal processes mating and relationships violence and aggression health and psychological adjustment and individual differences Within these domains chapters offer evolutionary insights into salient topics such as social identity prosocial behavior conformity feminism cyberpsychology and war Together these authors make a rigorous argument for the further integration of the two diverse and sometimes conflicting disciplines Among the topics covered How social psychology can be more cognitive without being less social How the self esteem system functions to resolve important interpersonal dilemmas Shared interests of social psychology and cultural evolution The evolution of stereotypes An adaptive socio ecological perspective on social competition and bullying Evolutionary game theory and personality Evolutionary Perspectives on Social Psychology has much to offer students and faculty in both fields as well as evolutionary scientists outside of psychology This volume can be used as a primary text in graduate courses and as a supplementary text in various upper level undergraduate courses

**Evolutionary Neuroscience** Jon H Kaas, 2009-07-28 Evolutionary Neuroscience is a collection of articles in brain evolution selected from the recent comprehensive reference Evolution of Nervous Systems Elsevier Academic Press 2007 The selected chapters cover a broad range of topics from historical theory to the most recent deductions from comparative studies of brains The articles are organized in sections focused on theories and brain scaling the evolution of brains from early vertebrates to present day fishes amphibians reptiles and birds the evolution of mammalian brains and the evolution of primate brains including human brains Each chapter is written by a leader or leaders in the field and has been reviewed by other experts Specific topics include brain character reconstruction principles of brain scaling basic features of vertebrate brains the evolution of the major sensory systems and other parts of brains what we can learn from fossils the origin of neocortex and the evolution of specializations of human brains The collection of articles will be interesting to anyone who is curious about how brains evolved from the simpler nervous systems of the first vertebrates into the many different complex forms now found in present day vertebrates This book would be of use to students at the graduate or undergraduate levels as well as professional neuroscientists cognitive scientists and psychologists Together the chapters provide a comprehensive list of further reading and references for those

who want to inquire further The most comprehensive authoritative and up to date single volume collection on brain evolution Full color throughout with many illustrations Written by leading scholars and experts **Special Sciences and the Unity of Science** Olga Pombo, Juan Manuel Torres, John Symons, Shahid Rahman, 2012-02-01 Science is a dynamic process in which the assimilation of new phenomena perspectives and hypotheses into the scientific corpus takes place slowly The apparent disunity of the sciences is the unavoidable consequence of this gradual integration process Some thinkers label this dynamical circumstance a crisis However a retrospective view of the practical results of the scientific enterprise and of science itself grants us a clear view of the unity of the human knowledge seeking enterprise This book provides many arguments case studies and examples in favor of the unity of science These contributions touch upon various scientific perspectives and disciplines such as Physics Computer Science Biology Neuroscience Cognitive Psychology and Economics

**Oxford Handbook of Developmental Behavioral Neuroscience** Mark Blumberg, John Freeman, Scott R. Robinson, 2010 The Oxford Handbook of Developmental Behavioral Neuroscience is a seminal reference work in the burgeoning field of developmental behavioral neuroscience which has emerged in recent years as an important sister discipline to developmental psychobiology This handbook part of the Oxford Library of Neuroscience provides an introduction to recent advances in research at the intersection of developmental science and behavioral neuroscience while emphasizing the central research perspectives of developmental psychobiology Contributors to the Oxford Handbook of Developmental Behavioral Neuroscience are drawn from a variety of fields including developmental psychobiology neuroscience comparative psychology and evolutionary biology demonstrating the opportunities to advance our understanding of behavioral and neural development through enhanced interactions among parallel disciplines In a field ripe for collaboration and integration the Oxford Handbook of Developmental Behavioral Neuroscience provides an unprecedented overview of conceptual and methodological issues pertaining to comparative and developmental neuroscience that can serve as a roadmap for researchers and a textbook for educators Its broad reach will spur new insights and compel new collaborations in this rapidly growing field Brill's Companion to the Philosophy of Biology Andrea Borghini, Elena Casetta, 2019-12-16 In this volume Andrea Borghini and Elena Casetta introduce a wide spectrum of key philosophical problems related to life sciences in a neat framework and an accessible style with a special emphasis on metaphysical issues The volume is divided into three parts The first addresses the two main questions stemming from life sciences what is life and what is the correct understanding of the theory of evolution The second part looks at metaphysical questions concerning biological entities environments species organisms and biological individuals The third part focuses on theoretical questions of particular ethical and political significance sex and gender the biotechnological revolution and the evolution of behavior and culture Each chapter is followed by a list of further readings *Encyclopedia of Evolutionary Biology*, 2016-04-14 Encyclopedia of Evolutionary Biology Four Volume Set is the definitive go to reference in the field of evolutionary biology It

provides a fully comprehensive review of the field in an easy to search structure Under the collective leadership of fifteen distinguished section editors it is comprised of articles written by leading experts in the field providing a full review of the current status of each topic The articles are up to date and fully illustrated with in text references that allow readers to easily access primary literature While all entries are authoritative and valuable to those with advanced understanding of evolutionary biology they are also intended to be accessible to both advanced undergraduate and graduate students Broad topics include the history of evolutionary biology population genetics quantitative genetics speciation life history evolution evolution of sex and mating systems evolutionary biogeography evolutionary developmental biology molecular and genome evolution coevolution phylogenetic methods microbial evolution diversification of plants and fungi diversification of animals and applied evolution Presents fully comprehensive content allowing easy access to fundamental information and links to primary research Contains concise articles by leading experts in the field that ensures current coverage of each topic Provides ancillary learning tools like tables illustrations and multimedia features to assist with the comprehension process

**Pere Alberch** Diego Rasskin-Gutman,2011-11-28 Pere Alberch 1954 1998 fue un destacado biólogo español que reformuló el concepto de evo devo la ciencia del desarrollo y la evolución siguiendo la estela dejada por figuras clásicas de la ciencia de los siglos XIX y XX tales como tienne Geoffroy Saint Hilaire sir Gavin De Beer Conrad H Waddington y Stephen J Gould Sus artículos sobre las limitaciones desarrollistas y evolucionistas centrados en la heterocronía como proceso fundamental responsable de la formación de la filogenia constituyen verdaderos clásicos de la evo devo actual Este volumen presenta tres ensayos originales que analizan la importancia histórica y filosófica de su trabajo en el desarrollo de la evo devo Además ofrece una selección de reproducciones facsimiles de sus artículos más relevantes que proporcionan al lector una visión inestimable para encomiar la vida y el trabajo de Alberch

**Concepts of morphology** Aa. Vv.,2014-05-08T00:00:00+02:00 Morphology is the general theory of form and formation which can be seen as the innovative and fruitful point of intersection of the old two cultures the scientific and the humanistic The three papers presented in the book by Olaf Breidbach Pietro Corvaja and Angelo Vianello respectively illustrate different features of morphology from the epistemic viewpoints of history of science mathematics and biology The texts were produced in the context of the second meeting of the Centro Interdipartimentale di Morfologia F Moiso which took place in Udine on the 14 December 2007

*Patterns of Growth and Development in the Genus Homo* J. L. Thompson,G. E. Krovitz,A. J. Nelson,2003-12-04 It is generally accepted that the earliest human ancestors grew more like apes than like humans today If they did so and we are now different when how and why did our modern growth patterns evolve This book focuses on species within the genus Homo to investigate the evolutionary origins of characteristic human patterns and rates of craniofacial and postcranial growth and development and to explore unique ontogenetic patterns within each fossil species Experts examine growth patterns found within available Plio Pleistocene hominid samples and analyse variation in ontogenetic patterns and rates of development in recent modern humans in order

to provide a comparative context for fossil hominid studies Presenting studies of some of the newer juvenile fossil specimens and information on Homo antecessor this book will provide a rich data source with which anthropologists and evolutionary biologists can address the questions posed above

**The Role of Theory in Advancing 21st-Century Biology** National Research Council, Division on Earth and Life Studies, Board on Life Sciences, Committee on Defining and Advancing the Conceptual Basis of Biological Sciences in the 21st Century, 2008-02-22 Although its importance is not always recognized theory is an integral part of all biological research Biologists theoretical and conceptual frameworks inform every step of their research affecting what experiments they do what techniques and technologies they develop and use and how they interpret their data By examining how theory can help biologists answer questions like What are the engineering principles of life or How do cells really work the report shows how theory synthesizes biological knowledge from the molecular level to the level of whole ecosystems The book concludes that theory is already an inextricable thread running throughout the practice of biology but that explicitly giving theory equal status with other components of biological research could help catalyze transformative research that will lead to creative dynamic and innovative advances in our understanding of life

**Not by Design** John Reiss, 2009-08-10 More than two centuries ago William Paley introduced his famous metaphor of the universe as a watch made by the Creator For Paley the exquisite structure of the universe necessitated a designer Today some 150 years since Darwin's On the Origin of Species was published the argument of design is seeing a revival This provocative work tells how Darwin left the door open for this revival and at the same time argues for a new conceptual framework that avoids the problematic teleology inherent in Darwin's formulation of natural selection In a wide ranging discussion of the historical and philosophical dimensions of evolutionary theory from the ancient Greeks to today John Reiss argues that we should look to the principle of the conditions for existence first formulated before On the Origin of Species by the French paleontologist Georges Cuvier to clarify the relation of adaptation to evolution Reiss suggests that Cuvier's principle can help resolve persistent issues in evolutionary biology including the proper definition of natural selection the distinction between natural selection and genetic drift and the meaning of genetic load Moreover he shows how this principle can help unite diverse areas of biology ranging from quantitative genetics and the theory of the levels of selection to evo devo ecology physiology and conservation biology

Homology Gregory R. Bock, Gail Cardew, 2008-04-30 Homology as a concept became increasingly elusive during the course of the 20th century The central debates and controversies concern both fundamental definitions and the nature of the criteria by which homology is judged Attempts to move away from comparative morphology to ideas based on developmental pathways have tended to founder on the fact that developmental pathways evolve and that similar cells or tissues or structures in animals will often have different developmental origins The use of information about conserved molecules in seemingly conserved developmental processes has also proven controversial In molecular biology the use of the term homology has given rise to more debate although here the issue seems to involve

primarily the criteria for assessing whether parts of genes are the same because of shared descent or for other reasons The contributions to the book explore these topics systematically There are chapters on the historical development of the concept of homology and its use in population studies Other chapters deal with issues of homology in morphological and developmental studies in behavioural studies and especially in studies at the level of molecular genetics

**Living machines** Tony J. Prescott, Nathan Lepora, Paul F. M. J. Verschure, 2018-04-19 Contemporary research in science and engineering is seeking to harness the versatility and sustainability of living organisms By exploiting natural principles researchers hope to create new kinds of technology that are self repairing adaptable and robust and to invent a new class of machines that are perceptive social emotional perhaps even conscious This is the realm of the living machine Living machines can be divided into two types biomimetic systems that harness the principles discovered in nature and embody them in new artifacts and biohybrid systems in which biological entities are coupled with synthetic ones Living Machines A handbook of research in biomimetic and biohybrid systems surveys this flourishing area of research capturing the current state of play and pointing to the opportunities ahead Promising areas in biomimetics include self organization biologically inspired active materials self assembly and self repair learning memory control architectures and self regulation locomotion in air on land or in water perception cognition control and communication Drawing on these advances the potential of biomimetics is revealed in devices that can harvest energy grow or reproduce and in animal like robots that range from synthetic slime molds to artificial fish to humanoids Biohybrid systems is a relatively new field with exciting and largely unknown potential but one that is likely to shape the future of humanity This book surveys progress towards new kinds of biohybrid such as robots that merge electronic neurons with biological tissue micro scale machines made from living cells prosthetic limbs with a sense of touch and brain machine interfaces that allow robotic devices to be controlled by human thought The handbook concludes by exploring some of the impacts that living machine technologies could have on both society and the individual exploring questions about how we will see and understand ourselves in a world in which the line between the natural and the artificial is increasingly blurred With contributions from leading researchers from science engineering and the humanities this handbook will be of broad interest to undergraduate and postgraduate students Researchers in the areas of computational modeling and engineering including artificial intelligence machine learning artificial life biorobotics neurorobotics and human machine interfaces will find Living Machines an invaluable resource

**Phenotypic Plasticity** Thomas J. DeWitt, Samuel M. Scheiner, 2004 Genetic evolution adaptation environment genotype

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

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