



Great Transformations in
**VERTEBRATE
EVOLUTION**



Edited by

KENNETH P. DIAL, NEIL SHUBIN, AND ELIZABETH L. BRAINERD

Great Transformations In Vertebrate Evolution

Georg F. Striedter, R. Glenn Northcutt



Great Transformations In Vertebrate Evolution:

Great Transformations in Vertebrate Evolution Kenneth P. Dial, Neil Shubin, Elizabeth L. Brainerd, 2015-07-20 How did flying birds evolve from running dinosaurs terrestrial trotting tetrapods from swimming fish and whales return to swim in the sea These are some of the great transformations in the history of life events that have captured the imagination of scientists and the general public alike At first glance these major evolutionary events seem utterly impossible The before and after look so fundamentally different that the great transformations of the history of life not only seem impossible but unknowable The 500 million year history of vertebrates is filled with change and as a consequence every living species contains within its structure DNA and fossil record a narrative of them A battery of new techniques and approaches from diverse fields of inquiry are now being marshaled to explore classic questions of evolution These approaches span multiple levels of biological organization from DNA sequences to organs to the physiology and ecology of whole organisms Analysis of developmental systems reveals deep homologies of the mechanisms that pattern organs as different as bird wings and fish fins Whales with legs are one of a number of creatures that tell us of the great transformations in the history of life Expeditions have discovered worms with a kind of head fishes with elbows wrists and necks feathered dinosaurs and human precursors to name only a few Indeed in the last 20 years paleontologists have discovered more creatures informative of evolutionary transitions than in the previous millennium The Great Transformations captures the excitement of these new discoveries by bringing diverse teams of renowned scientists together to attack particular transformations and to do so in a contents organized by body part head neck fins limbs and then the entire bauplan It is a work that will transform evolutionary biology and paleontology

Great Transformations in Vertebrate Evolution Kenneth P. Dial, Neil Shubin, Elizabeth L. Brainerd, 2015-07-20 How did flying birds evolve from running dinosaurs terrestrial trotting tetrapods evolve from swimming fish and whales return to swim in the sea These are some of the great transformations in the 500 million year history of vertebrate life And with the aid of new techniques and approaches across a range of fields work spanning multiple levels of biological organization from DNA sequences to organs and the physiology and ecology of whole organisms we are now beginning to unravel the confounding evolutionary mysteries contained in the structure genes and fossil record of every living species This book gathers a diverse team of renowned scientists to capture the excitement of these new discoveries in a collection that is both accessible to students and an important contribution to the future of its field Marshaling a range of disciplines from paleobiology to phylogenetics developmental biology ecology and evolutionary biology the contributors attack particular transformations in the head and neck trunk appendages such as fins and limbs and the whole body as well as offer synthetic perspectives Illustrated throughout Great Transformations in Vertebrate Evolution not only reveals the true origins of whales with legs fish with elbows wrists and necks and feathered dinosaurs but also the relevance to our lives today of these extraordinary narratives of change

Vertebrate Skeletal Histology and

Paleohistology Vivian de Buffrénil, Armand J. de Ricqlès, Louise Zylberberg, Kevin Padian, 2021-06-24 Vertebrate Skeletal Histology and Paleohistology summarizes decades of research into the biology and biological meaning of hard tissues in both living and extinct vertebrates. In addition to outlining anatomical diversity, it provides fundamental phylogenetic and evolutionary contexts for interpretation. An international team of leading authorities review the impact of ontogeny, mechanics, and environment in relation to bone and dental tissues. Synthesizing current advances in the biological problems of growth, metabolism, evolution, ecology, and behavior, this comprehensive and authoritative volume is built upon a foundation of concepts and technology generated over the past fifty years.

Evolution and Development of Fishes Zerina Johanson, Charlie Underwood, Martha Richter, 2019-01-10 World-class palaeontologists and biologists summarise the state of the art on fish evolution and development.

Feeding in Vertebrates Vincent Bels, Ian Q. Whishaw, 2019-04-23 This book provides students and researchers with reviews of biological questions related to the evolution of feeding by vertebrates in aquatic and terrestrial environments. Based on recent technical developments and novel conceptual approaches, the book covers functional questions on trophic behavior in nearly all vertebrate groups, including jawless fishes. The book describes mechanisms and theories for understanding the relationships between feeding structure and feeding behavior. Finally, the book demonstrates the importance of adopting an integrative approach to the trophic system in order to understand evolutionary mechanisms across the biodiversity of vertebrates.

Ruling Reptiles Holly Noelle Woodward Ballard, James O. Farlow, 2023-09-05 Modern crocodylians: crocodiles, alligators, caiman. Central and South America and gharials. India have evolved over 250 million years from a fully terrestrial bipedal ancestor. Along with birds, crocodylians are the only living members of Archosauria, the group including nonavian dinosaurs. Ruling Reptiles features contributions on a broad range of topics surrounding crocodylian evolution and biology, including osteology, osteohistology, developmental biology, myology, odontology, functional morphology, allometry, body size estimation, taphonomy, parasitology, ecology, thermophysiology, and ichnology. It demonstrates how the wide variety of these studies can also provide crucial insights into dinosaurian biology and evolution. Featuring the latest findings and interpretations, Ruling Reptiles: Crocodylian Biology and Archosaur Paleobiology is an essential resource for zoologists, biologists, and paleontologists.

Lampreys: Biology, Conservation and Control Margaret F. Docker, 2019-06-03 This book, published in two volumes, provides the most comprehensive review of lamprey biology since Hardisty and Potter's *The Biology of Lampreys* published more than 30 years ago. This second volume offers a synthesis of topics related to the lamprey gonad, e.g., lamprey sex ratios, sex determination, and sex differentiation; sexual maturation and sex steroids; the artificial propagation of lampreys; post-metamorphic feeding and the evolution of alternative feeding and migratory types; the history and status of sea lamprey control in the Laurentian Great Lakes and Lake Champlain; and an overview of contributions of lamprey developmental studies for understanding vertebrate evolution.

Evolution of Nervous Systems Georg F. Striedter, Theodore H. Bullock, Todd M. Preuss, John Rubenstein, Leah A. Krubitzer, 2016-11-23

Evolution of Nervous Systems Second Edition Four Volume Set is a unique major reference which offers the gold standard for those interested both in evolution and nervous systems All biology only makes sense when seen in the light of evolution and this is especially true for the nervous system All animals have nervous systems that mediate their behaviors many of them species specific yet these nervous systems all evolved from the simple nervous system of a common ancestor To understand these nervous systems we need to know how they vary and how this variation emerged in evolution In the first edition of this important reference work over 100 distinguished neuroscientists assembled the current state of the art knowledge on how nervous systems have evolved throughout the animal kingdom This second edition remains rich in detail and broad in scope outlining the changes in brain and nervous system organization that occurred from the first invertebrates and vertebrates to present day fishes reptiles birds mammals and especially primates including humans The book also includes wholly new content fully updating the chapters in the previous edition and offering brand new content on current developments in the field Each of the volumes has been carefully restructured to offer expanded coverage of non mammalian taxa mammals primates and the human nervous system The basic principles of brain evolution are discussed as are mechanisms of change The reader can select from chapters on highly specific topics or those that provide an overview of current thinking and approaches making this an indispensable work for students and researchers alike Presents a broad range of topics ranging from genetic control of development in invertebrates to human cognition offering a one stop resource for the evolution of nervous systems throughout the animal kingdom Incorporates the expertise of over 100 outstanding investigators who provide their conclusions in the context of the latest experimental results Presents areas of disagreement and consensus views that provide a holistic view of the subjects under discussion

Brains Through Time Georg F. Striedter, R. Glenn Northcutt, 2020 This book encourages readers to view similarities and differences in various species as fundamental to a comprehensive understanding of nervous systems

Stone Tools in Human Evolution John J. Shea, 2017 An exploration of how the evolution of behavioral differences between humans and other primates affected the archaeological stone tool evidence

Evolutionary Cell Processes in Primates M. Kathleen Pitirri, Joan T. Richtsmeier, 2021-09-14 Many complex traits define the human condition including encephalization and bipedalism The specific molecular signals and cellular processes producing these traits are the result of dramatic evolutionary change At the same time conservation of many of these developmental programs underlie both structure and function Novel methodologies and techniques allow analysis of the collective behavior of cells cell shapes tissues and organs This volume demonstrates the essential role of cellular mechanisms in the evolutionary increase in the size and complexity of the primate brain In addition and concordant with encephalization this book documents changes in the muscles and bones associated with the appearance of bipedalism Genetic changes are the basis of these evolutionary changes but transformation of genetic information into phenotypic outcomes occurs at the level of the cell and this is the focus of the book The goal is to encourage others to adopt evolutionary cell biology as a novel

and necessary approach to the genotype phenotype map of the diversification of primates human variation and human evolution The contributors to this book utilize advances in genetic analysis visualization of cells and tissues and the merging of evolutionary developmental biology with evolutionary cell biology to address questions central to understanding the human and primate evolution Key Features Explores mechanisms underlying trait distribution dispersal variation and evolution through the direct testing of hypotheses especially with respect to patterns of encephalization certain sensory modalities and growth and life history specializations Documents the advantages for anthropologists to work at the level of cells focusing on how genes provide instructions for cells to make structure and how environmental influences affect the behavior of cells Illustrates the role cell biology plays with respect to encephalization neocortical expansion variation in facial morphology locomotion and dexterity Describes novel methodologies and techniques allowing analysis of how the collective behavior of cells shapes tissues and organs Related Titles Ripamonti U ed Induction of Bone Formation in Primates The Transforming Growth Factor beta 3 ISBN 978 0 3673 7740 3 Gordon M S et al eds Animal Locomotion Physical Principles and Adaptations ISBN 978 0 3676 5795 6 Bianchi L Developmental Neurobiology ISBN 978 0 8153 4482 7

Zebrafish in Development and Disease Gokhan Dalgin, Rebecca Ann Wingert, Ryan M. Anderson, 2019-12-06 There are only a few vertebrate systems that can be used to model human diseases for biomedical discovery The zebrafish model provides key advantages over existing models Their externally developing embryos provide high throughput non invasive imaging chemical screening forward and reverse genetics and their regeneration capacity make zebrafish a valuable system for novel discovery Developmental studies using zebrafish has influenced discoveries in many human health related conditions This Research Topic covers all aspects of zebrafish studies providing developmental mechanisms to human health conditions The aim of the Research Topic was to foster a platform to bring all levels of zebrafish research including but not limited to development disease regeneration drug screening bioinformatics and Omics studies

Animal Locomotion Malcolm S. Gordon, Reinhard Blickhan, John O. Dabiri, John J. Videler, 2017-05-25 Animal Locomotion Physical Principles and Adaptations is a professional level state of the art review and reference summarizing the current understanding of macroscopic metazoan animal movement The comparative biophysics biomechanics and bioengineering of swimming flying and terrestrial locomotion are placed in contemporary frameworks of biodiversity evolutionary process and modern research methods including mathematical analysis The intended primary audience is advanced level students and researchers primarily interested in and trained in mathematics physical sciences and engineering Although not encyclopedic in its coverage anyone interested in organismal biology functional morphology organ systems and ecological physiology physiological ecology molecular biology molecular genetics and systems biology should find this book useful

General Biology, Archosauria, Chelonia Ulrich Joger, 2024-08-06 With more than 10 000 known species recent reptiles excluding birds are the most specious tetrapod class Their diversity is high and many of them are frequently used as model organisms in phylogeographic

and ecological studies On the other hand unique aspects of their biology are still being studied and important contributions to their understanding have just been issued These aspects include the evolution of viviparity and of venom glands metabolic regulation in poikilotherms their ecophysiological tolerance and neurobiological and sensorial capacities such as infrared imaging and chemosensitivity Genetic and developmental phenomena such as parthenogenesis and temperature dependent sex determination are also special to reptiles They are generally important for understanding evolutionary processes in vertebrates The latest results of worldwide research on dinosaurs and other fossil reptiles crocodiles and turtles conclude this first volume of Reptilia in the Handbook of Zoology

Human Fatigue Francesco Marino, 2019-03-15 Fatigue is a condition spanning the breadth of human functioning in health and disease and is a central concern in sport and exercise Even so we are yet to fully understand its causes One reason for this lack of understanding is that we seldom consider fatigue from an evolutionary perspective as an adaptation that provided reproductive success This ground breaking book outlines the evidence that fatigue is a result of adaptations distinctive to humans It argues that humans developed adaptations which led to enhanced fatigue resistance compared with other mammals and discusses the implications in the context of exercise health and performance Highly illustrated throughout it covers topics such as defining and measuring fatigue the emotional aspect of fatigue how thermoregulation affects the human capacity to resist fatigue and fatigue in disease Human Fatigue is essential reading for all exercise scientists as well as graduate and undergraduate students in the broad field of physiology and exercise physiology

Mammalian Evolution, Diversity and Systematics Frank Zachos, Robert Asher, 2018-10-22 There are nearly 6 000 mammalian species among them our own Research on our evolutionary cousins has a long history but the last 20 years have seen particularly rapid progress in disentangling the interrelationships and evolutionary history of mammals The present volume combines up to date reviews on mammalian phylogenetics with paleontological taxonomic and evolutionary chapters and also summarizes the historical development of our insights in mammalian relationships and thus our own place in the Tree of Life Our book places the present biodiversity crisis in context with one in four mammal species threatened by extinction and reviews the distribution and conservation of mammalian diversity across the globe This volume is the introductory tome to the new Mammalia series of the Handbook of Zoology and will be essential reading for mammalogists zoologists and conservationists alike

The Long Distance Runner's Guide to Injury Prevention and Treatment Brian J. Krabak, Grant S. Lipman, Brandee L. Waite, 2017-10-03 For any runner who loves hitting the pavement and conquering half full and ultra marathons getting injured is a terrifying and often heartbreaking setback Yet almost three quarters of long distance runners will suffer from a serious injury several times in their athletic career Although it may be impossible to completely avoid injury The Long Distance Runner's Guide to Injury Prevention and Treatment is a vital source to help those who love to run understand some of the most common causes of injuries and learn how to best avoid and treat athletic ailments In this book expert editors and long time runners Brian Krabak and Grant Lipman combine valuable insights

tips and tactics from over a dozen medical professionals who specialize in treating endurance athletes With chapters on important and diverse topics such as proper nutrition muscular ailments skeletal injuries medical illnesses caused by racing and proper recovery *The Long Distance Runner's Guide to Injury Prevention and Treatment* is a must have on the shelf of every harrier

From Fossils to Mind, 2023-02-23 *From Fossils to Mind* Volume 275 in the *Progress in Brain Research* series presents chapters on a variety of interesting topics including What could our pre mammalian ancestors hear see smell and touch A review of ten years of research about cynodont paleoneurology Endocasts of ornithomimid dinosaurs anatomy and comparison Adaptationism and Structuralism in Brain Evolution Research Genomic approaches for tracing the evolution of brain ageing and neurodegenerative diseases Investigating the Coevolution of Language and Tools in the Brain An ALE Meta analysis of Neural Activation During Syntactic Processing and Tool Use and more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in *Progress in Brain Research* series Updated release includes the latest information on *From Fossils to Mind*

Paleoneurology of Amniotes María Teresa Dozo, Ariana Paulina-Carabajal, Thomas E. Macrini, Stig Walsh, 2022-11-22 This book presents a detailed examination of the current state of knowledge in the field of paleoneurology in the main amniote groups reptiles birds and mammals and advances resulting from new non invasive technologies The study of fossil endocasts is an area of considerable current interest and has long been central to our understanding of the evolution of the brain development of senses and behavioral adaptations in diverse vertebrate groups and across vertebrates as a whole Recent advances in non invasive imaging have significantly increased the number of fossil taxa for which brain morphology is known and it may now be possible to quantitatively analyze the relative size of brain regions Providing a general overview of current perspectives and problems in evolutionary neuroanatomy this book is intended for a wide range of readers including undergraduate and graduate students teachers and anyone with a special interest in paleoneurology It is also useful as supplementary reading for courses in digital anatomy vertebrate comparative anatomy computed morphometrics paleontology neurology and radiology as well as evolution programs

Nature through Time Edoardo Martinetto, Emanuel Tschopp, Robert A. Gastaldo, 2020-07-27 This book simulates a historical walk through nature teaching readers about the biodiversity on Earth in various eras with a focus on past terrestrial environments Geared towards a student audience using simple terms and avoiding long complex explanations the book discusses the plants and animals that lived on land the evolution of natural systems and how these biological systems changed over time in geological and paleontological contexts With easy to understand and scientifically accurate and up to date information readers will be guided through major biological events from the Earth's past The topics in the book represent a broad paleoenvironmental spectrum of interests and educational modules allowing for virtual visits to rich geological times Eras and events that are discussed include but are not limited to the much varied Quaternary environments the evolution of plants and animals during the Cenozoic the rise of angiosperms vertebrate evolution and

ecosystems in the Mesozoic the Permian mass extinction the late Paleozoic glaciation and the origin of the first trees and land plants in the Devonian Ordovician With state of the art expert scientific instruction on these topics and up to date and scientifically accurate illustrations this book can serve as an international course for students teachers and other interested individuals

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