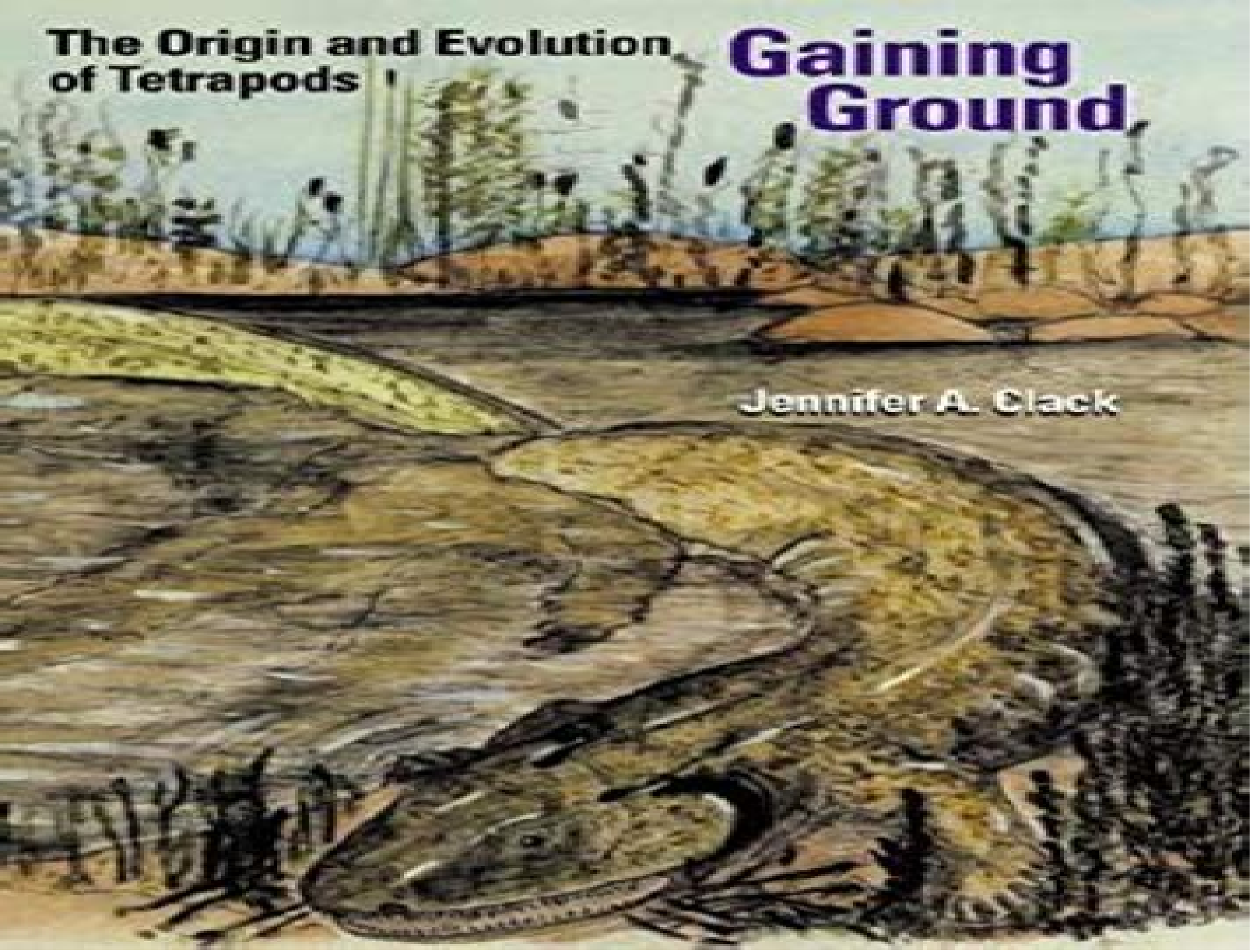


**The Origin and Evolution  
of Tetrapods**

**Gaining  
Ground**

**Jennifer A. Clack**



# Gaining Ground The Origin And Early Evolution Of Tetrapods

**Donald R. Prothero**



## **Gaining Ground The Origin And Early Evolution Of Tetrapods:**

**Gaining Ground** Jennifer A. Clack, 2012 Around 370 million years ago a distant relative of a modern lungfish began a most extraordinary adventure emerging from the water and laying claim to the land Over the next 70 million years this tentative beachhead had developed into a worldwide colonization by ever increasing varieties of four limbed creatures known as tetrapods the ancestors of all vertebrate life on land This new edition of Jennifer A Clack s groundbreaking book tells the complex story of their emergence and evolution Beginning with their closest relatives the lobe fin fishes such as lungfishes and coelacanths Clack defines what a tetrapod is describes their anatomy and explains how they are related to other vertebrates She looks at the Devonian environment in which they evolved describes the known and newly discovered species and explores the order and timing of anatomical changes that occurred during the fish to tetrapod transition

**Gaining Ground** Jennifer A. Clack, 2012-06-27 Around 370 million years ago a distant relative of a modern lungfish began a most extraordinary adventure emerging from the water and laying claim to the land Over the next 70 million years this tentative beachhead had developed into a worldwide colonization by ever increasing varieties of four limbed creatures known as tetrapods the ancestors of all vertebrate life on land This new edition of Jennifer A Clack s groundbreaking book tells the complex story of their emergence and evolution Beginning with their closest relatives the lobe fin fishes such as lungfishes and coelacanths Clack defines what a tetrapod is describes their anatomy and explains how they are related to other vertebrates She looks at the Devonian environment in which they evolved describes the known and newly discovered species and explores the order and timing of anatomical changes that occurred during the fish to tetrapod transition

EVOLUTION OF HUMANS (Free Book) by DARSHAN SINGH Darshan Singh, 2025-07-01      **The Story of Life in 25 Fossils** Donald R. Prothero, 2015-08-25 Every fossil tells a story Best selling paleontology author Donald R Prothero describes twenty five famous beautifully preserved fossils in a gripping scientific history of life on Earth Recounting the adventures behind the discovery of these objects and fully interpreting their significance within the larger fossil record Prothero creates a riveting history of life on our planet The twenty five fossils portrayed in this book catch animals in their evolutionary splendor as they transition from one kind of organism to another We witness extinct plants and animals of microscopic and immense size and thrilling diversity We learn about fantastic land and sea creatures that have no match in nature today Along the way we encounter such fascinating fossils as the earliest trilobite Olenellus the giant shark Carcharocles the fishibian Tiktaalik the Frogamander and the Turtle on the Half Shell enormous marine reptiles and the biggest dinosaurs known the first bird Archaeopteryx the walking whale Ambulocetus the gigantic hornless rhinoceros Paraceratherium the largest land mammal that ever lived and the Australopithecus nicknamed Lucy the oldest human skeleton We meet the scientists and adventurers who pioneered paleontology and learn about the larger intellectual and social contexts in which their discoveries were made Finally we find out where to see these splendid fossils in the world s great museums Ideal for all

who love prehistoric landscapes and delight in the history of science this book makes a treasured addition to any bookshelf stoking curiosity in the evolution of life on Earth     The Vertebrate Integument Volume 1 Theagarten

Lingham-Soliar, 2014-02-18 The vertebrate integument arose about 450 million years ago as an armour of dermal bony plates in small jawless fish like creatures informally known as the ostracoderms This book reviews the major changes that have occurred in the vertebrate integument from its beginnings to the present day Critical questions concerning the origin structure and functional biology of the bony integument are discussed and intrinsically linked to major steps in vertebrate evolution and phylogeny the origin of jaws and the origin of teeth The discussions include the origins of mineralization of major vertebrate skeletal components such as the dermatocranium branchial arches and vertebral column The advances that led to the origin of modern fishes and their phylogenetic development are reviewed and include the evolution of fins and replacement of the bony plates with several types of dermal scales The evolution of reptiles saw a major transformation of the integument with the epidermis becoming the protective outermost layer from which the scales arose while the dermis lay below it The biological significance of the newly evolved keratin in reptilian scales among the toughest natural materials known is discussed in the context of its major contribution to the great success of reptiles and to the evolution of feathers and avian flight The dermis in many vertebrates is strengthened by layers of oppositely oriented cross fibres now firmly entrenched as a design principle of biomechanics Throughout the book conventional ideas are discussed and a number of new hypotheses are presented in light of the latest developments The long evolutionary history of vertebrates indicates that the significance of the Darwinian concept of survival of the fittest may be overstated including in our own mammalian origins and that chance often plays a major role in evolutionary patterns Extensive illustrations are included to support the verbal descriptions Professor Theagarten Lingham Soliar is in the Department of Life Sciences at the University of KwaZulu Natal

**Origins** Frank H. T. Rhodes, 2016-07-29 Fossils are the fragments from which piece by laborious piece the great mosaic of the history of life has been constructed Here and there we can supplement these meager scraps by the use of biochemical markers or geochemical signatures that add useful information but even with such additional help our reconstructions and our models of descent are often tentative For the fossil record is as we have seen as biased as it is incomplete But fragmentary selective and biased though it is the fossil record with all its imperfections is still a treasure Though whole chapters are missing many pages lost and the earliest pages so damaged as to be as yet virtually unreadable this the greatest biography of all is one in whose closing pages we find ourselves from Origins In Origins Frank H T Rhodes explores the origin and evolution of living things the changing environments in which they have developed and the challenges we now face on an increasingly crowded and polluted planet Rhodes argues that the future well being of our burgeoning population depends in no small part on our understanding of life s past its long and slow development and its intricate interdependencies Rhodes s accessible and extensively illustrated treatment of the origins narrative describes the nature of the search for prehistoric life

the significance of geologic time the origin of life the emergence and spread of flora and fauna the evolution of primates and the emergence of modern humans     The Book of Barely Imagined Beings Caspar Henderson, 2013-05-02 Caspar Henderson takes us on an eye opening tour of real animals that no sane human could ever have invented Frans de Waal New York Times bestselling author With The Book of Barely Imagined Beings Caspar Henderson offers readers a fascinating beautifully produced modern day menagerie But whereas medieval bestiaries were often based on folklore and myth the creatures that abound in Henderson s book from the axolotl to the zebrafish are with one exception very much with us albeit sometimes in depleted numbers The Book of Barely Imagined Beings transports readers to a world of real creatures that seem as if they should be made up that are somehow more astonishing than anything we might have imagined The yeti crab for example uses its furry claws to farm the bacteria on which it feeds The waterbear meanwhile is among nature s extreme survivors able to withstand a week unprotected in outer space These and other strange and surprising species invite readers to reflect on what we value or fail to value and what we might change A powerful combination of wit cutting edge natural history and philosophical meditation The Book of Barely Imagined Beings is an infectious and inspiring celebration of the sheer ingenuity and variety of life in a time of crisis and change The Book of Barely Imagined Beings is one that Pliny would have envied Darwin applauded and Borges relished In these days of doom and gloom I can think of nothing more rejoicing than Caspar Henderson s magical book Alberto Manguel author of A History of Reading Magnificent bravura beautiful and astoundingly interesting The Sunday Times Spell binding brilliantly executed extraordinary The Guardian     Evolution Donald R. Prothero, 2017-08-22 Donald R Prothero s Evolution is an entertaining and rigorous history of the transitional forms and series found in the fossil record Its engaging narrative of scientific discovery and well grounded analysis has led to the book s widespread adoption in courses that teach the nature and value of fossil evidence for evolution Evolution tackles systematics and cladistics rock dating neo Darwinism and macroevolution It includes extensive coverage of the primordial soup invertebrate transitions the development of the backbone the reign of the dinosaurs and the transformation from early hominid to modern human The book also details the many alleged missing links in the fossil record including some of the most recent discoveries that flesh out the fossil timeline and the evolutionary process In this second edition Prothero describes new transitional fossils from various periods vividly depicting such bizarre creatures as the Odontochelys or the turtle on the half shell fossil snakes with legs and the Frogamander a new example of amphibian transition Prothero s discussion of intelligent design arguments includes more historical examples and careful examination of the experiments and observations that are exploited by creationists seeking to undermine sound science education With new perspectives Prothero reframes creationism as a case study in denialism and pseudoscience rather than a field with its own intellectual dynamism The first edition was hailed as an exemplary exploration of the fossil evidence for evolution and this second edition will be welcome in the libraries of scholars teachers and general readers who stand up for sound science in this post truth

era     Evolution of the Vertebrate Auditory System Geoffrey A. Manley, Richard R. Fay, 2013-12-01 The function of vertebrate hearing is served by a surprising variety of sensory structures in the different groups of fish amphibians reptiles birds and mammals This book discusses the origin specialization and functional properties of sensory hair cells beginning with environmental constraints on acoustic systems and addressing in detail the evolutionary history behind modern structure and function in the vertebrate ear Taking a comparative approach chapters are devoted to each of the vertebrate groups outlining the transition to land existence and the further parallel and independent adaptations of amniotic groups living in air The volume explores in depth the specific properties of hair cells that allowed them to become sensitive to sound and capable of analyzing sounds into their respective frequency components Evolution of the Vertebrate Auditory System is directed to a broad audience of biologists and clinicians from the level of advanced undergraduate students to professionals interested in learning more about the evolution structure and function of the ear     Vertebrate Evolution Donald R. Prothero, 2022-04-19 The first vertebrate animals appear in the fossil record over 520 million years ago These lineages diversified and eventually crept ashore leading to further evolutionary divergence and the appearance of the familiar charismatic vertebrates of today From the tiniest fishes diminutive salamanders and miniaturized lizards to gargantuan dinosaurs enormous brontotheres and immense whales vertebrates have captured the imagination of the lay public as well as the most erudite academics They are the among the best studied organisms This book employs beautifully rendered illustrations of these diverse lineages along with informative text to document a rich evolutionary history The prolific and best selling author reveals much of the latest findings regarding the phylogenetic history of vertebrates without overwhelming the reader with pedantry and excessive jargon Simultaneously comprehensive and authoritative while being approachable and lucid this book should appeal to both the scholar the student and the fossil enthusiast Key Features Provides an up to date account of evolution of vertebrates Includes numerous beautiful color reconstructions of prehistoric vertebrates Describes extinct vertebrates and their evolutionary history Discusses and illustrates the first vertebrates as well as familiar lineages of fishes amphibians reptiles birds and mammals Reviews mass extinctions and other important events in the diversification of vertebrates Related Titles Bard J Evolution The Origins and Mechanisms of Diversity ISBN 9780367357016 B hmer C et al Atlas of Terrestrial Mammal Limbs ISBN 9781138705906 Diogo R et al Muscles of Chordates Development Homologies and Evolution ISBN 9781138571167 Schweitzer M H et al Dinosaurs How We Know What We Know ISBN 9780367563813     *Localities, Distribution and Stratigraphical Context of the Late Devonian Tetrapods of East Greenland* ,     *Biological Materials of Marine Origin* Hermann Ehrlich, 2014-12-01 This is the second monograph by the author on biological materials of marine origin The initial book is dedicated to the biological materials of marine invertebrates This work is a source of modern knowledge on biomineralization biomimetics and materials science with respect to marine vertebrates For the first time in scientific literature the author gives the most coherent analysis of the

nature origin and evolution of biocomposites and biopolymers isolated from and observed in the broad variety of marine vertebrate organisms fish reptilian birds and mammals and within their unique hierarchically organized structural formations There is a wealth of new and newly synthesized information including dozens of previously unpublished images of unique marine creatures including extinct extant and living taxa and their biocomposite based structures from nano to micro and macroscale This monograph reviews the most relevant advances in the marine biological materials research field pointing out several approaches being introduced and explored by distinct modern laboratories **Central American Biodiversity** Falk Huettmann,2015-08-04 This book highlights key results and lessons learnt from two field sites La Suerte in Costa Rica and Ometepe Nicaragua It provides long term data on species abundance and distribution Primates receive specific attention in this book as they are flagship species and good indicators for the health of an ecosystem but as well a money maker Many primate species are sensitive to habitat alteration and are often hunted out first But they play an important role as seed dispersal agents for the regeneration of the forest The book then compares results from the two field sites with regional trends and explores potential solutions such as REDD This book strongly calls for new approaches in conservation it makes the case for looking beyond the pure species biology and classic conservation angle and to take into account the economic and political realities The Story of Evolution in 25 Discoveries Donald R. Prothero,2020-12-22 The theory of evolution unites the past present and future of living things It puts humanity s place in the universe into necessary perspective Despite a history of controversy the evidence for evolution continues to accumulate as a result of many separate strands of amazing scientific sleuthing In The Story of Evolution in 25 Discoveries Donald R Prothero explores the most fascinating breakthroughs in piecing together the evidence for evolution In twenty five vignettes he recounts the dramatic stories of the people who made crucial discoveries placing each moment in the context of what it represented for the progress of science He tackles topics like what it means to see evolution in action and what the many transitional fossils show us about evolution following figures from Darwin to lesser known researchers as they unlock the mysteries of the fossil record the earth and the universe The book also features the stories of animal species strange and familiar including humans and our ties to some of our closest relatives and more distant cousins Prothero s wide ranging tales showcase awe inspiring and bizarre aspects of nature and the powerful insights they give us into the way that life works Brisk and entertaining while firmly grounded in fundamental science The Story of Evolution in 25 Discoveries is a captivating read for anyone curious about the evidence for evolution and what it means for humanity Biomineralization Patricia M. Dove,James J. De Yoreo,Steve Weiner,2018-12-17 Volume 54 of *Reviews in Mineralogy and Geochemistry* focuses upon the various processes by which organisms direct the formation of minerals Our framework of examining biominerals from the viewpoints of major mineralization strategies distinguishes this volume from most previous reviews The review begins by introducing the reader to over arching principles that are needed to investigate biomineralization phenomena and shows the current state of knowledge regarding the major

approaches to mineralization that organisms have developed over the course of Earth history By exploring the complexities that underlie the synthesis of biogenic materials and therefore the basis for how compositions and structures of biominerals are mediated or not we believe this volume will be instrumental in propelling studies of biomineralization to a new level of research questions that are grounded in an understanding of the underlying biological phenomena *Heads, Jaws, and Muscles* Janine M. Ziermann, Raul E. Diaz Jr, Rui Diogo, 2019-01-23 The vertebrate head is the most complex part of the animal body and its diversity in nature reflects a variety of life styles feeding modes and ecological adaptations This book will take you on a journey to discover the origin and diversification of the head which evolved from a seemingly headless chordate ancestor Despite their structural diversity heads develop in a highly conserved fashion in embryos Major sensory organs like the eyes ears nose and brain develop in close association with surrounding tissues such as bones cartilages muscles nerves and blood vessels Ultimately this integrated unit of tissues gives rise to the complex functionality of the musculoskeletal system as a result of sensory and neural feedback most notably in the use of the vertebrate jaws a major vertebrate innovation only lacking in hagfishes and lampreys The cranium subsequently further diversified during the major transition from fishes living in an aquatic environment to tetrapods living mostly on land In this book experts will join forces to integrate for the first time state of the art knowledge on the anatomy development function diversity and evolution of the head and jaws and their muscles within all major groups of extant vertebrates Considerations about and comparisons with fossil taxa including emblematic groups such as the dinosaurs are also provided in this landmark book which will be a leading reference for many years to come *Tetrapod Water-Land Transition: Reconstructing Soft Tissue Anatomy and Function* Julia L. Molnar, Rui Diogo, Ingmar Werneburg, Catherine Anne Boisvert, 2022-08-18 **Fins into Limbs** Brian K. Hall, 2008-09-15 Long ago fish fins evolved into the limbs of land vertebrates and tetrapods During this transition some elements of the fin were carried over while new features developed Lizard limbs bird wings and human arms and legs are therefore all evolutionary modifications of the original tetrapod limb A comprehensive look at the current state of research on fin and limb evolution and development this volume addresses a wide range of subjects including growth structure maintenance function and regeneration Divided into sections on evolution development and transformations the book begins with a historical introduction to the study of fins and limbs and goes on to consider the evolution of limbs into wings as well as adaptations associated with specialized modes of life such as digging and burrowing Fins into Limbs also discusses occasions when evolution appears to have been reversed in whales for example whose front limbs became flippers when they reverted to the water as well as situations in which limbs are lost such as in snakes With contributions from world renowned researchers Fins into Limbs will be a font for further investigations in the changing field of evolutionary developmental biology *On the Origin of Autonomy* Bernd Rosslenbroich, 2014-04-15 This volume describes features of autonomy and integrates them into the recent discussion of factors in evolution In recent years ideas about major transitions in evolution are undergoing a



revolutionary change They include questions about the origin of evolutionary innovation their genetic and epigenetic background the role of the phenotype and of changes in ontogenetic pathways In the present book it is argued that it is likewise necessary to question the properties of these innovations and what was qualitatively generated during the macroevolutionary transitions The author states that a recurring central aspect of macroevolutionary innovations is an increase in individual organismal autonomy whereby it is emancipated from the environment with changes in its capacity for flexibility self regulation and self control of behavior The first chapters define the concept of autonomy and examine its history and its epistemological context Later chapters demonstrate how changes in autonomy took place during the major evolutionary transitions and investigate the generation of organs and physiological systems They synthesize material from various disciplines including zoology comparative physiology morphology molecular biology neurobiology and ethology It is argued that the concept is also relevant for understanding the relation of the biological evolution of man to his cultural abilities Finally the relation of autonomy to adaptation niche construction phenotypic plasticity and other factors and patterns in evolution is discussed The text has a clear perspective from the context of systems biology arguing that the generation of biological autonomy must be interpreted within an integrative systems approach **Cowen's History of Life**

Michael J. Benton, 2019-08-07 A newly revised and fully updated edition of the market leading introduction to paleontology Designed for students and anyone else with an interest in the history of life on our planet the new edition of this classic text describes the biological evolution of Earth's organisms and reconstructs their adaptations and the ecology and environments in which they functioned Cowen's History of Life 6th Edition includes major updates including substantial rewrites to chapters on the origins of eukaryotes the Cambrian explosion the terrestrialization of plants and animals the Triassic recovery of life the origin of birds the end Cretaceous mass extinction and human evolution It also features new chapters on plants soils and transformation of the land the Mesozoic marine revolution and the evolution of oceans and climates Beginning with the origin of the Earth and the earliest life on earth the book goes on to offer insightful contributions covering the evolution of Metazoans the early vertebrates life of vertebrates on land and early amniotes and thermoregulation The book also looks at dinosaur diversity as well as their demise early mammals the rise of modern mammals the Neogene Savannas primates life in the ice ages and more Covers the breadth of the subject in a concise yet specific way for undergrads with no academic background in the topic Reorganizes all chapters to reflect the geological series of events enabling a new focus on big events Updated with three brand new chapters and numerous revised ones Put together by a new editorial team internationally recognized as the global leaders in paleontology Filled with illustrations and photographs throughout Includes diagrams to show internal structures of organisms cladograms time scales and events and paleogeographic maps Supplemented with a dedicated website that explores additional enriching information and discussion and which features images for use in visual presentations Cowen's History of Life 6th Edition is an ideal book for

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