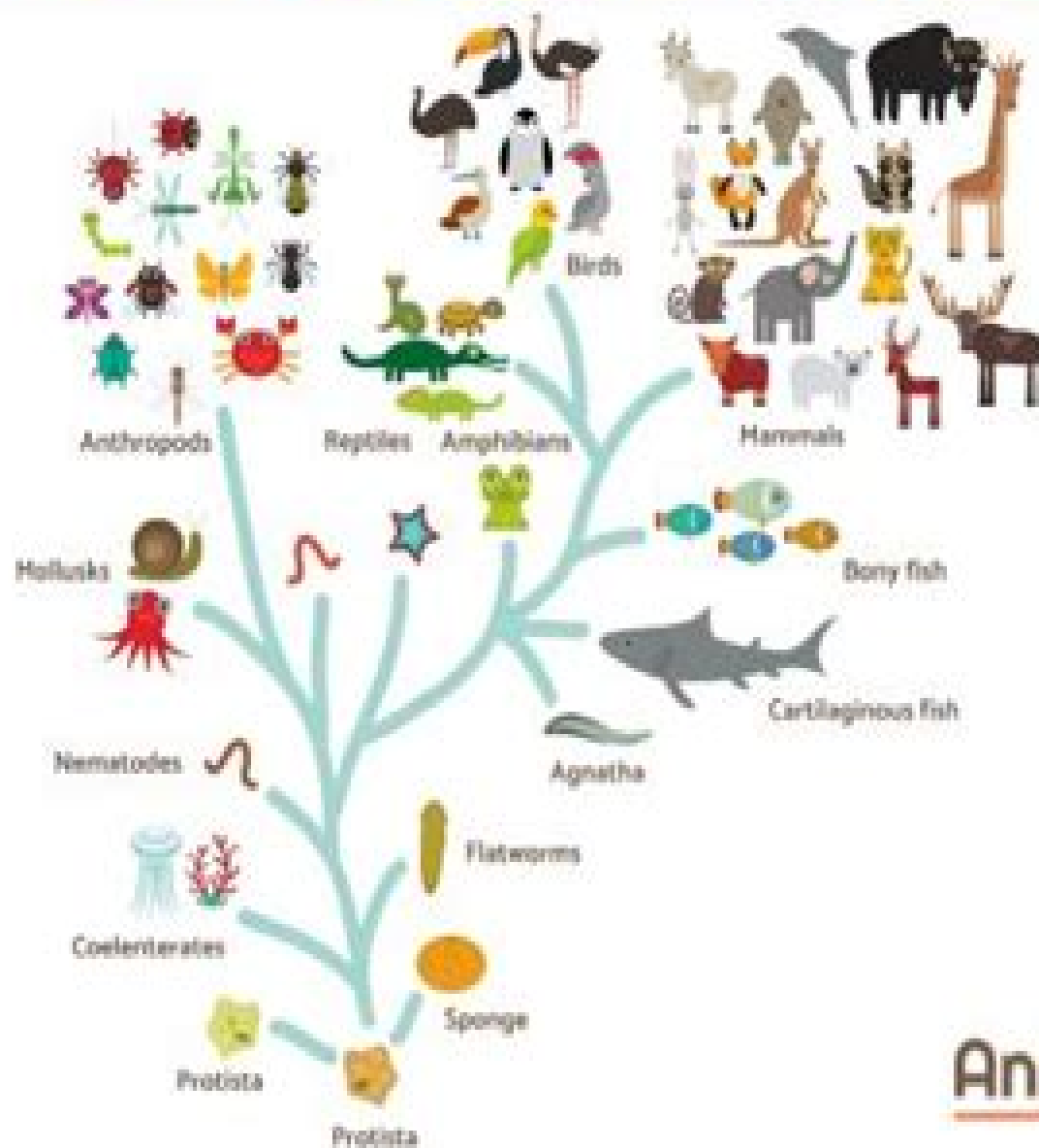


# EVOLUTION OF ANIMALS



# The Origin And Early Evolution Of Animals

**F. Marret, J. O'Keefe, P. Osterloff, M.  
Pound**



## **The Origin And Early Evolution Of Animals:**

**The Origin and Early Evolution of Animals** Earl D. Hanson, 1977      The Origin and Early Evolution of Life Tom Fenchel, 2002 Origin and Early Evolution of Life draws on evidence from molecular genetics the structure and function of extant organisms and geology It covers the period from about 4 billion years ago when life is thought to have originated to about 600 million years ago when multicellular organisms first arose There are significant gaps in our understanding of the earliest evolution of life forms but an insight into the topic leads to a more profound understanding of life itself Particular emphasis is placed on the fact that although life arose very soon after the origin of the Earth it was represented only by simple microbial life forms for approximately 85% of this time Increase in complexity beyond the microbial level took place only very late in the history of life      **Origin and Early Evolution of the Metazoa** Jere H. Lipps, Philip W. Signor, 2013-11-21 Several years ago we realized that the most prominent ideas that had been expressed about the origin and early evolution of the Metazoa seemed to have been developed chiefly by zoologists using evidence from modern species without reference to the fossil record Paleontologists had in fact put forth their own ideas but the zoological and the paleontological evidence were about the problem seldom considered together especially by zoologists We believed that the paleontological documentation of the first Metazoa was too scattered too obscure to Western readers and much of it too recent to have been readily available to our colleagues in zoology Whether or not that was entirely true we thought that a single volume reviewing the fossil record of the earliest Metazoa would be useful to many in both paleontology and zoology especially since so much new information has been developed in the last few years Some of this information has been summarized in general articles recently but an overview of most of the field does not exist We therefore organized this book in five parts so that the evidence could be placed in perspective and summarized and inferences made from it Part I introduces the previous hypotheses that have been proposed for the origin and early radiation of Metazoa Part II consists of two summary chapters that set the sedimentological geochemical and biological background to the known radiations of Metazoa

Origin and Early Evolution of Amniotes Jörg Fröbisch, Mark Joseph MacDougall, Michel Laurin, Sean P. Modesto, Robert R. Reisz, 2025-09-08 Amniotes comprise all fully terrestrial vertebrates and include extant squamates turtles crocodiles birds and mammals The origin of amniotes tightly linked to the amniotic egg as a key innovation represents a major transition in the evolutionary history of tetrapods Amniotes first appeared in the fossil record about 318 million years ago and their early evolution diversification ecology and phylogenetic relationships have received considerable and increasing interest and research attention over the past decades Recently several new hypotheses regarding early amniote interrelationships have been proposed and it is now apparent that the origin and early evolution of Amniota is not as clear as was previously thought In order to better understand early amniote evolution and test existing hypotheses it is critical to continue expanding upon past work with the addition of new data and application of modern technologies and approaches      *Early Evolution* Martino

Rizzotti,2013-12-01 It is now accepted that the first cells derived from simpler objects and that their descendants became more and more complicated and ordered until their evolutionary transformation into modern cells namely cells endowed with the same basic structures and mechanisms as those existing today Although the appearance of the first modern cells goes back at least two billion years many scholars believe that it occurred almost four billion years ago In that case the Earth's formation which took place quite quickly about 4.6 billion years ago is in close proximity to the origin of life There is disagreement not only about the moment of appearance of modern cells but also as to their early evolution Ideas on the first steps in cellular evolution vary considerably and our present knowledge is so limited as to be little more than vacuous Why discuss it then Precisely because it is an empty space that needs to be filled Does it make sense only to discuss things which are well known and well documented Is this the best way to interpret that spirit of exploration of the unknown which is at the very heart of scientific endeavor The idea that it is idle to venture into fields which are poorly documented has been long supported even in cases similar to those dealt with here for example the evolutionary phases which took place before the first cell

**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

*Palaeobiology II* Derek E. G. Briggs, Peter R. Crowther,2008-04-15 *Palaeobiology A Synthesis* was widely acclaimed both for its content and production quality Ten years on Derek Briggs and Peter Crowther have once again brought together over 150 leading authorities from around the world to produce *Palaeobiology II* Using the same successful formula the content is arranged as a series of concise articles taking a thematic approach to the subject rather than treating the various fossil groups systematically This entirely new book with its diversity of new topics and over 100 new contributors reflects the exciting developments in the field including accounts of spectacular newly discovered fossils and embraces data from other disciplines such as astrobiology geochemistry and genetics

Palaeobiology II will be an invaluable resource not only for palaeontologists but also for students and researchers in other branches of the earth and life sciences Written by an international team of recognised authorities in the field Content is concise but informative Demonstrates how palaeobiological studies are at the heart of a range of scientific themes     *On the Origin of Phyla* James W. Valentine, 2004-06-18 Owing its inspiration and title to *On the Origin of Species* James W Valentine's ambitious book synthesizes and applies the vast treasury of theory and research collected in the century and a half since Darwin's time By investigating the origins of life's diversity Valentine unlocks the mystery of the origin of phyla One of the twentieth century's most distinguished paleobiologists Valentine here integrates data from molecular genetics evolutionary developmental biology embryology comparative morphology and paleontology into an analysis of interest to scholars from any of these fields He begins by examining the sorts of evidence that can be gleaned from fossils molecules and morphology then reviews and compares the basic morphology and development of animal phyla emphasizing the important design elements found in the bodyplans of both living and extinct phyla Finally Valentine undertakes the monumental task of developing models to explain the origin and early diversification of animal phyla as well as their later evolutionary patterns Truly a magnum opus *On the Origin of Phyla* will take its place as one of the classic scientific texts of the twentieth century affecting the work of paleontologists morphologists and developmental molecular and evolutionary biologists for decades to come A magisterial compendium Valentine offers a judicious evaluation of an astonishing array of evidence Richard Fortey New Scientist Truly a magnum opus *On the Origin of Phyla* has already taken its place as one of the classic scientific texts of the twentieth century affecting the work of paleontologists morphologists and developmental molecular and evolutionary biologists for decades to come Ethology Ecology the origin of the phyla is an even stickier problem and Valentine deserves credit for tackling it at such breadth A magnificent book Stefan Bengtson Nature     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 *The Dawn of Animal Life* Martin F. Glaessner,1984 This 1985 book examines the origin of the present diversity of marine invertebrate animals A brief review of the early stages in the history of life discusses the time scale of the relevant geological periods alongside corresponding events in the evolutionary sequence These views of the early history of life are then matched against the fossil record and conjectures drawn from the living fauna enabling the author to attempt an overview of the early diversification of marine animal life Transitions to the succeeding assemblages of shellbearing fossils in Palaeozoic rocks are discussed and a number of stratigraphic adjustments are suggested for the period in which evolutionary events had their greatest impact on oceans and marine rock strata The need for an interdisciplinary approach to early evolution is emphasized **The Origin of Animal Body Plans** Wallace Arthur,1997 This book examines both the origin of body plans in particular and the evolution of animal development in general **The ^AEvolution of Primary Sexual Characters in Animals** Janet Leonard,Alex Cordoba-Aguilar,2010-07-19 This edited volume explores primary sexual characters in a wide variety of animal taxa It provides an overview of sexual diversity the selective pressures that have shaped it and an introduction to the data and theoretical issues in sexual selection that are changing our view of sexual processes

**Insights on the Rise of Animal Life from Cambrian and Ordovician Lagerstätten** Bertrand Lefebvre,Allison Daley,Farid Saleh,Khadija El Hariri,2023-12-27 Applications of Non-Pollen Palynomorphs F. Marret,J. O'Keefe,P. Osterloff,M. Pound,2021-10-29 This long awaited book about non pollen palynomorphs NPPs aims to cover gaps in our knowledge of these abundant but understudied palynological remains NPPs such as fungal spores testate amoebae dinoflagellate cysts acritarchs and animal remains are routinely recovered from palynological preparations of marine or terrestrial material from Proterozoic to recent geological times This book gives the reader a comprehensive overview of the different types of NPPs with examples from diverse time periods and environments It provides guidance on sample preparation to maximize the recovery of these NPPs detailed information on their diversity and ecological affinity clarification on the nomenclature and demonstrates their value as environmental indicators This volume will become the reference guide for any student academic or practitioner interested in everything else in their palynological preparations

Animals and Science Education Michael P. Mueller,Deborah J. Tippins,Arthur J. Stewart,2017-06-15 This book discusses how we can inspire today s youth to engage in challenging and productive discussions around the past present and future role of animals in science education Animals play a large role in the sciences and science education and yet they remain one of the least visible topics in the educational literature This book is intended to cultivate research topics conversations and dispositions for the ethical use of animals in science and education This book explores the vital role of animals with in science

education specimens protected species and other associated issues with regards to the role of animals in science Topics explored include ethical curriculum and pedagogical dimensions involving invertebrates engineering solutions that contribute to ecosystems the experiences of animals under our care aesthetic and contemplative practices alongside science school based ethical dialogue nature study for promoting inquiry and sustainability the challenge of whether animals need to be used for science whatsoever reconceptualizing museum specimens cultivating socioscientific issues and epistemic practice cultural integrity and citizen science the care and nurturance of gender balanced curriculum choices for science education and theoretical conversations around cultivating critical thinking skills and ethical dispositions The diverse authors in this book take on the logic of domination and symbolic violence embodied within the scientific enterprise that has systematically subjugated animals and nature and emboldened the anthropocentric and exploitative expressions for the future role of animals At a time when animals are getting excluded from classrooms too dangerous too many allergies too dirty this book is an important counterpoint Interacting with animals helps students develop empathy learn to care for living things engage with content We need more animals in the science curriculum not less David Sobel Senior Faculty Education Department Antioch University New England *Criminology* Maurice Parmelee, 1918 **Animals as Neighbors** Terry O'Connor, 2013-09-01 In this fascinating book Terry O'Connor explores a distinction that is deeply ingrained in much of the language that we use in zoology human animal studies and archaeology the difference between wild and domestic For thousands of years humans have categorized animals in simple terms often according to the degree of control that we have over them and have tended to see the long story of human animal relations as one of increasing control and management for human benefit And yet around the world species have adapted to our homes our towns and our artificial landscapes finding ways to gain benefit from our activities and so becoming an important part of our everyday lives These commensal animals remind us that other species are not passive elements in the world around us but intelligent and adaptable creatures *Animals as Neighbors* shows how a blend of adaptation and opportunism has enabled many species to benefit from our often destructive footprint on the world O'Connor investigates the history of this relationship working back through archaeological records By requiring us to take a multifaceted view of human animal relations commensal animals encourage a more nuanced understanding of those relations both today and throughout the prehistory of our species **Vertebrate Palaeontology** Michael J. Benton, 2014-10-20 Vertebrate palaeontology is a lively field with new discoveries reported every week and not only dinosaurs This new edition reflects the international scope of vertebrate palaeontology with a special focus on exciting new finds from China A key aim is to explain the science Gone are the days of guesswork Young researchers use impressive new numerical and imaging methods to explore the tree of life macroevolution global change and functional morphology The fourth edition is completely revised The cladistic framework is strengthened and new functional and developmental spreads are added Study aids include key questions research to be done and recommendations of further

reading and web sites The book is designed for palaeontology courses in biology and geology departments It is also aimed at enthusiasts who want to experience the flavour of how the research is done The book is strongly phylogenetic and this makes it a source of current data on vertebrate evolution

**Epigenetic Mechanisms of the Cambrian Explosion** Nelson R Cabej, 2019-10-12 Epigenetic Mechanisms of the Cambrian Explosion provides readers with a basic biological knowledge and epigenetic explanation of the biological puzzle of the Cambrian explosion the unprecedented rapid diversification of animals that began 542 million years ago During an evolutionarily instant of 10 million years which represents only 0.3% of the time of existence of life on Earth or less than 2% of the time of existence of metazoans all of the 30 extant body plans major animal groups phyla and several extinct groups appeared The work helps address this phenomena and tries to answer remaining questions for evolutionary biology epigenetics and scientific researchers The book recognizes and presents objective representations of alternative theories for epigenetic evolution in this period with the author drawing on his epigenetic theory of evolution to explain the causal basis of the Cambrian explosion Both empirical evidence and theoretical arguments are presented in support of this thought provoking epigenetic theory Explains the Cambrian explosion from an entirely epigenetic view Takes a causal rather than descriptive approach to the phenomenon Allows for a broad readership including those with only a basic biological knowledge while maintaining scientific rigor

*Oxygen* Donald E. Canfield, 2014-01-19 The remarkable scientific story of how Earth became an oxygenated planet The air we breathe is twenty one percent oxygen an amount higher than on any other known world While we may take our air for granted Earth was not always an oxygenated planet How did it become this way Donald Canfield one of the world's leading authorities on geochemistry earth history and the early oceans covers this vast history emphasizing its relationship to the evolution of life and the evolving chemistry of the Earth Canfield guides readers through the various lines of scientific evidence considers some of the wrong turns and dead ends along the way and highlights the scientists and researchers who have made key discoveries in the field Showing how Earth's atmosphere developed over time *Oxygen* takes readers on a remarkable journey through the history of the oxygenation of our planet



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