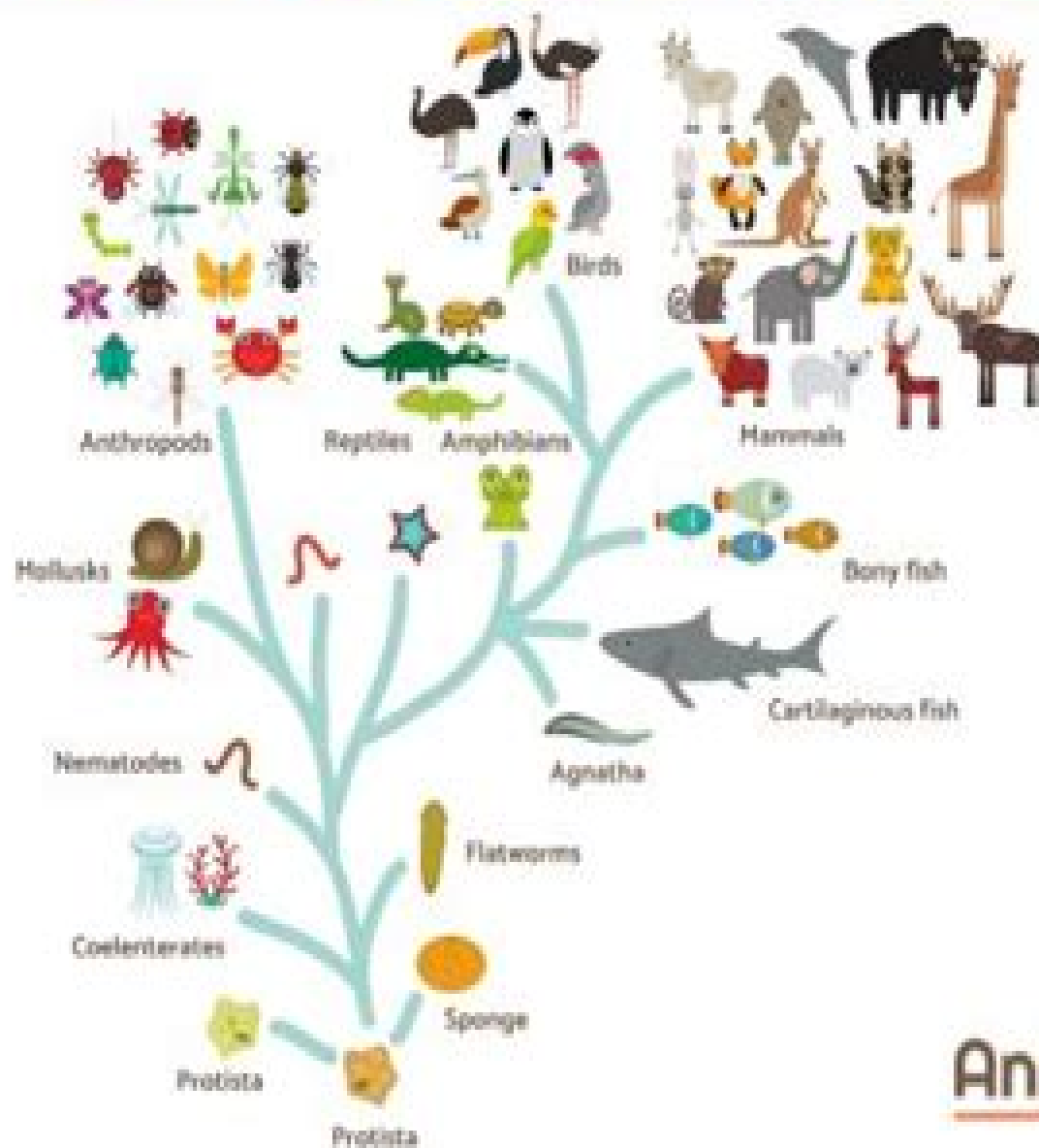


# EVOLUTION OF ANIMALS



# Origin And Early Evolution Of Animals

**Xiang Xie**



## **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

The Origin and Early Evolution of Animals Earl D. Hanson, 1977      **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

**The Origin and Early Evolutionary History of Snakes** David J. Gower, Hussam

Zaher, 2022-08-11 Snakes comprise nearly 4 000 extant species found on all major continents except Antarctica

Morphologically and ecologically diverse they include burrowing arboreal and marine forms feeding on prey ranging from insects to large mammals Snakes are strikingly different from their closest lizard relatives and their origins and early diversification have long challenged and enthused evolutionary biologists The origin and early evolution of snakes is a broad interdisciplinary topic for which experts in palaeontology ecology physiology embryology phylogenetics and molecular biology have made important contributions The last 25 years has seen a surge of interest resulting partly from new fossil material but also from new techniques in molecular and systematic biology This volume summarises and discusses the state of our knowledge approaches data and ongoing debates It provides reviews syntheses new data and perspectives on a wide range of topics relevant to students and researchers in evolutionary biology neontology and palaeontology

**Molecular Evolution: Towards the Origin of Metazoa** Werner E.G. Müller, 2012-12-06 Recently new genes and their proteins that revealed striking new insights into the early evolution of multicellular animals have been identified and characterized from members of the lowest metazoan phylum the porifera sponges The unexpected result was that the sequences obtained from sponge displayed high similarity to those found in higher metazoa in consequence it was concluded that during the transition from protozoa to metazoa the major structural and regulatory proteins evolved only once The data gathered are now powerful arguments to establish monophyly of metazoa in addition new insights on the evolutionary diversification of metazoa were obtained

*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

[Animal Evolution](#) Claus Nielsen, 2012

Using modern phylogenetic reasoning based on an extensive review of morphology including ultrastructure and embryology

each phylum is analysed to ascertain its monophyly and hence its ancestral characters

**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

**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 Trace-Fossil Record of Major Evolutionary Events* M. Gabriela Mángano, Luis A. Buatois, 2016-11-17 This volume addresses major evolutionary changes that took place during the Ediacaran and the Paleozoic These include discussions on the nature of Ediacaran ecosystems as well as the ichnologic signature of evolutionary radiations such as the Cambrian explosion and the Great Ordovician biodiversification event the invasion of the land and the end Permian mass extinction This volume set provides innovative reviews of the major evolutionary events in the history of life from an ichnologic perspective Because the long temporal range of trace fossils has been commonly

emphasized biogenic structures have been traditionally overlooked in macroevolution. However, comparisons of ichnofaunas through geologic time do reveal the changing ecology of organism-substrate interactions. The use of trace fossils in evolutionary paleoecology represents a new trend that is opening a window for our understanding of major evolutionary radiations and mass extinctions. Trace fossils provide crucial evidence for the recognition of spatial and temporal patterns and processes associated with paleoecologic breakthroughs.

*The Rise of Animals* Mikhail A. Fedonkin, 2007. An essential resource for paleontologists, biologists, geologists, and teachers. The Rise of Animals is the best single reference on one of Earth's most significant events.

*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 Geology**, 2020-12-16. Encyclopedia of Geology, Second Edition, presents in six volumes state-of-the-art reviews on the various aspects of geologic research, all of which have moved on considerably since the writing of the first edition. New areas of discussion include extinctions, origins of life, plate tectonics, and its influence on faunal provinces, new types of mineral and hydrocarbon deposits, new methods of dating rocks and geological processes. Users will find this to be a fundamental resource for teachers and students of geology, as well as researchers and non-geology professionals seeking up-to-date reviews of geologic research. Provides a comprehensive and accessible one-stop shop for information on the subject of geology, explaining methodologies and technical jargon used in the field. Highlights connections between geology and other physical and biological sciences, tackling research problems that span multiple fields. Fills a critical gap of information in a field that has seen significant progress in past years. Presents an ideal reference for a wide range of scientists in earth and environmental areas of study.

*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 Choanoflagellates* Barry S. C. Leadbeater, 2015-01-08. Choanoflagellates have three distinctive claims to fame: they are the closest living unicellular relatives of animals; they are a

major component of aquatic microbial foodwebs and one group is remarkable for its siliceous basket like coverings This landmark book offers a unique synthesis of over forty years of choanoflagellates research Key areas are covered from the phylogenetic evidence supporting the sister group relationship between choanoflagellates and Metazoa to choanoflagellate distribution and diversity in marine and freshwater environments The structure and assembly of choanoflagellate loricae is also presented together with a full discussion of a novel example of regulatory evolution suggesting that the switch from nudiform to tectiform cell division and lorica production was achieved by a sudden reorganisation of existing structures and mechanisms Providing an authoritative summary of what is currently known about choanoflagellates this title will serve as a foundation upon which future research and discussion can take place      **Metazoa** Peter Godfrey-Smith,2020-11-10

Enthralling breathtaking Metazoa brings an extraordinary and astute look at our own mind s essential link to the animal world The New York Times Book Review Editors Choice A great book Godfrey Smith is brilliant at describing just what he sees the patterns of behaviour of the animals he observes Nigel Warburton Five Books The scuba diving philosopher who wrote Other Minds explores the origins of animal consciousness Dip below the ocean s surface and you are soon confronted by forms of life that could not seem more foreign to our own sea sponges soft corals and serpulid worms whose rooted bodies intricate geometry and flower like appendages are more reminiscent of plant life or even architecture than anything recognizably animal Yet these creatures are our cousins As fellow members of the animal kingdom the Metazoa they can teach us much about the evolutionary origins of not only our bodies but also our minds In his acclaimed 2016 book Other Minds the philosopher and scuba diver Peter Godfrey Smith explored the mind of the octopus the closest thing to an intelligent alien on Earth In Metazoa Godfrey Smith expands his inquiry to animals at large investigating the evolution of subjective experience with the assistance of far flung species As he delves into what it feels like to perceive and interact with the world as other life forms do Godfrey Smith shows that the appearance of the animal body well over half a billion years ago was a profound innovation that set life upon a new path In accessible riveting prose he charts the ways that subsequent evolutionary developments eyes that track for example and bodies that move through and manipulate the environment shaped the subjective lives of animals Following the evolutionary paths of a glass sponge soft coral banded shrimp octopus and fish then moving onto land and the world of insects birds and primates like ourselves Metazoa gathers their stories together in a way that bridges the gap between mind and matter addressing one of the most vexing philosophical problems that of consciousness Combining vivid animal encounters with philosophical reflections and the latest news from biology Metazoa reveals that even in our high tech AI driven times there is no understanding our minds without understanding nerves muscles and active bodies The story that results is as rich and vibrant as life itself      *Old Questions and Young Approaches to Animal Evolution* José M. Martín-Durán,Bruno C. Vellutini,2019-07-22 Animal evolution has always been at the core of Biology but even today many fundamental questions remain open The field of animal evo devo is leveraging recent

technical and conceptual advances in development paleontology genomics and transcriptomics to propose radically different answers to traditional evolutionary controversies This book is divided into four parts each of which approaches animal evolution from a different perspective The first part chapters 2 and 3 investigates how new sources of evidence have changed conventional views of animal origins while the second chapters 4 8 addresses the connection between embryogenesis and evolution and the genesis of cellular tissue and morphological diversity The third part chapters 9 and 10 investigates how big data in molecular biology is transforming our understanding of the mechanisms governing morphological change in animals In closing the fourth part chapters 11 13 explores new theoretical and conceptual approaches to animal evolution Old questions and young approaches to animal evolution offers a comprehensive and updated view of animal evolutionary biology that will serve both as a first step into this fascinating field for students and university educators and as a review of complementary approaches for researchers

**Evolving Animals** Wallace Arthur, 2014-08-07 Covering all the main animal groups from jellyfish to mammals this book unravels the story of animal evolution



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