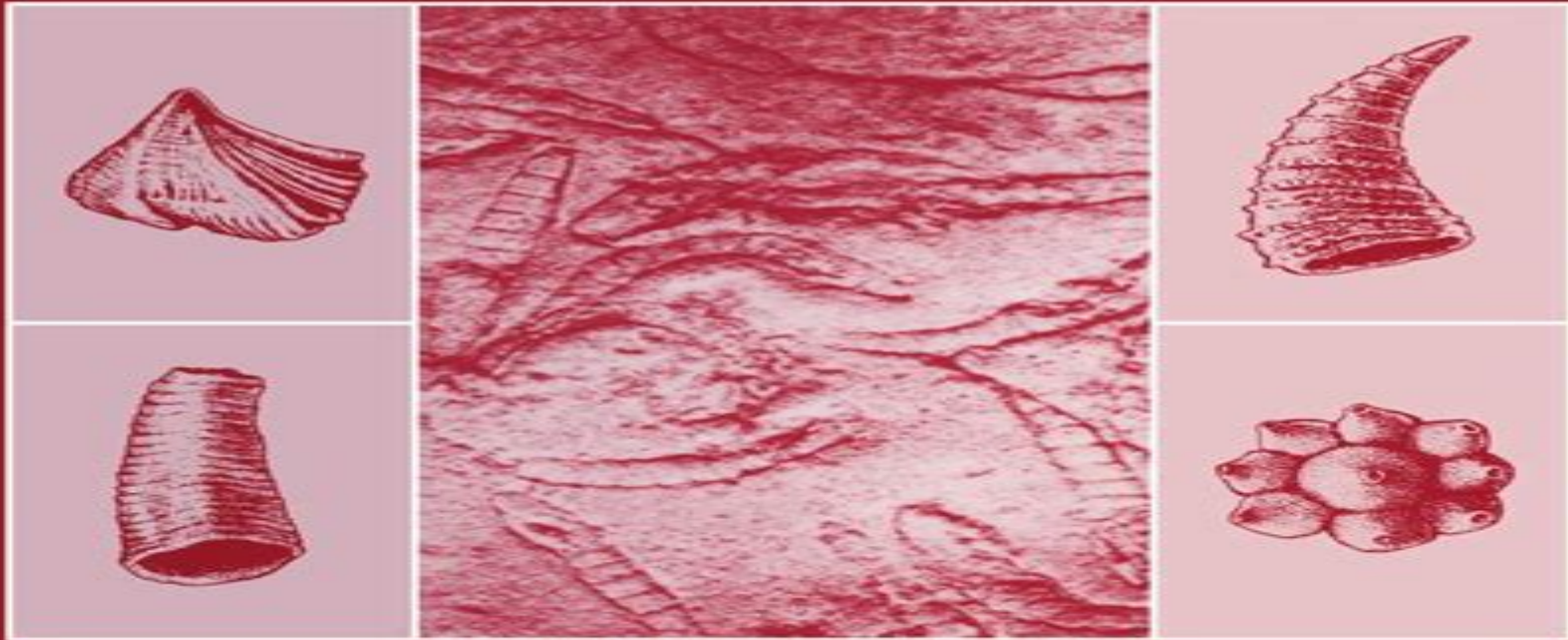




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Origin and Early Evolution of the Metazoa



Edited by
Jere H. Lipps and
Philip W. Signor

Origin And Early Evolution Of The Metazoa

Ying Liu



Origin And Early Evolution Of The Metazoa:

Origin and Early Evolution of the Metazoa Jere H. Lipps, Philip W. Signor, 1992-08-31 This text for the graduate or advanced undergraduate student assembles the latest information summarizing regional systematic and theoretical aspects of the early metazoa. The work consists of articles written by experts from around the world and includes literature from Russia and China translated for the first time into English. *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.

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. **The Origin and Early Evolution of Metazoa** Nihon Koseibutsu Gakkai, 2003

Evolution, 1981 **Molecular Evolution: Evidence for Monophyly of Metazoa** Werner E.G. Müller, 2012-12-06 This volume concentrates on the origin of multicellular animals, Metazoa. Until now, no unequivocal phylogeny has been produced. Therefore, the questions remain: Did Metazoa evolve from the Protozoa only once or several times? Is the origin of animals monophyletic or polyphyletic? Especially the relationships between the existing lower metazoan phyla, particularly the Porifera (sponges), are uncertain. Based on sequence data of genes typical for multicellularity, it is demonstrated that all Metazoa, including Porifera, should be placed into the kingdom Animalia together with the Eumetazoa. Therefore, it is most likely that

all animals are of monophyletic origin **Evolution** ,1981 **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 **Developments and Interactions of the Precambrian Atmosphere, Lithosphere and Biosphere** B. Nagy,R. Weber,Jose Maria Guerrero,M. Schidlowski,2000-04-01 Selection of papers from the IGCP Project 157 and 160 meeting at the Univ Nacional Autonoma de Mexico 11 14 Jan 1982 **Geobiology: Objectives, Concepts, Perspectives** N. Noffke,2012-12-02 Geobiology is an exciting and rapidly developing research discipline that opens new perspectives in understanding Earth as a system To determine and to exploit its possibilities this promising scientific field will benefit from a discussion of its definition as a research discipline its objectives and its methodological approaches Such a spirited discussion is the goal of the book Geobiology Objectives Concepts Perspectives Geobiology touches various subdisciplines of geology and biology in many ways The book will serve biogeochemists paleontologists biomineralogists microbiologists and many others as a forum to determine future directions of geobiological research The book includes a section on the concept of geobiological studies which combines the parent disciplines biology and geology Several case studies describe geobiological investigations that serve to understand Earth in the present and past The case studies give an overview of the general understanding of geobiology and lead the reader towards the current hot topics in this rising scientific discipline New definition of the rising scientific discipline geobiology Overview into the broad spectrum of geobiological topics Insight into hot topics of current geobiological research *Information Literacy for Science and Engineering Students* Mary DeJong,2024-08-22 This engaging handbook gives students and working scientists and engineers the information literacy skills they need to find evaluate and use information Beginning with a strong foundation in the utility structure and packaging of information this useful handbook helps students and working professionals decode real world information literacy problems Mary DeJong provides a compelling context and rationale for the skills scientists and engineers need to succeed in challenging careers that rely on the successful discovering and sharing of complex information Students will appreciate the in depth information on

sources especially those needed for research assignments and scientists and engineers who write for publication will benefit from chapters on searching databases and organizing and citing sources Written with science and engineering students and professionals in mind this book is thorough well paced engaging and even funny *Rise of the Dragon* Henry Gee,2001-11 Over the past decade fossil finds from China have stunned the world grabbing headlines and changing perceptions with a wealth of new discoveries Many of these finds were first announced to English speakers in the journal *Nature* *Rise of the Dragon* gathers together sixteen of these original reports some augmented with commentaries originally published in *Nature's* News and Views section Perhaps the best known of these new Chinese fossils are the famous feathered dinosaurs from Liaoning Province which may help end one of the most intense debates in paleontology whether birds evolved from dinosaurs But other finds have been just as spectacular such as the minutely preserved to the cellular level animal embryos of the 670 million year old Duoshantuo phosphorites or the world's oldest known fish from the Chengjiang formation in southwestern Yunnan Province *Rise of the Dragon* makes descriptions and detailed discussions of these important finds available in one convenient volume for paleontologists and serious fossil fans Interpretation of Biological and Environmental Changes Across the Neoproterozoic-Cambrian Boundary L.E. Babcock,2005-11-30 The Neoproterozoic Cambrian transition was a time of fundamental change in the biosphere Between about 570 and 510 million years ago marine organisms underwent considerable evolutionary innovation during a time of shifting ecological setting This dramatic activity culminated in the first stratigraphic appearances of many recognizable groups of animals an event often referred to as the Cambrian explosion In addition there was a major change from a microbial mat dominated sediment water interface to a more extensively burrowed interface in shallow marine settings The early fossil record is a function not only of the rise or ecological diversification of marine organisms but also the development of taphonomic and sedimentary conditions suitable for the preservation of mineralizing and nonmineralizing organisms This book is devoted to an exploration of some of the emerging concepts and techniques used to develop greater insight into the early record of biologic diversification and the preservational record of that diversification during the Neoproterozoic Cambrian transition Addresses key issues related to the Cambrian diversification of multicellular animals Provocative new ideas about the factors involved in the exceptional preservation of fossils with a balance between the development of ideas and hypothesis testing Broad coverage of topics related to the Cambrian diversification of animals and the fossil record of that diversification broad geographic coverage

Paleobiogeography Bruce S. Lieberman,2012-12-06 Biogeography relates the evolution of the Earth's biota to major episodes in the Earth's history such as climatic changes and plate tectonic events Furthermore biogeographic patterns have played a prominent role in the development of the theory of evolution Thus biogeography has the potential to make important contributions to the field of geobiology Paleobiogeography emphasizes how analytical techniques from phylogenetic biogeography can be applied to the study of patterns in the fossil record In doing this it considers the strengths and

weaknesses of paleobiogeographic data the effects of plate tectonic processes specifically continental rifting and collision and changes in relative sea levels in terms of how they influence the evolution and distribution of organisms **Evolution** Monroe W. Strickberger, 2005 The Garden of Ediacara Mark A. McMenamin, 1998 Including twenty two photographs and more than fifty drawings of these strikingly beautiful early life forms this book presents a mesmerizing documentary of a major scientific discovery the oldest animal fossils ever discovered **Global Events and Event Stratigraphy in the Phanerozoic** Otto H. Walliser, 2012-12-06 The existence of rapid and even catastrophic turnovers within the Phanerozoic ecosystems has been discussed controversially for more than 170 years Since 1980 this discussion has become even more intensive after the hypothesis of Alvarez explaining the end Cretaceous mass extinction as the result of a huge asteroid impact on the Earth This theory stimulated several thousand papers and is still controversial The international research programme on Global Biological Events in Earth History attempts to bring the discussion back to the facts by using multidisciplinary investigations of the major Phanerozoic events The results of an international group of experts are presented giving a wealth of information and a thorough discussion of the causes of the various global events *The Rise and Fall of the Ediacaran Biota* Patricia Vickers-Rich, Patricia Komarower, 2007 The Proterozoic and early Phanerozoic was a time punctuated by a series of significant events in Earth history Glaciations of global scale wracked the planet interfingering with dramatic changes in oceanic and atmospheric chemistry and marked changes in continental configuration It was during these dynamic and weedy times that metazoans first appeared diversified culminating in the appearance of hard tissue skeletons and deep farming of the marine substrate in late Proterozoic and first few millions of years of the Phanerozoic This book is the culmination of two symposia of UNESCO International Geological Correlation Project 493 one in Prato Italy in 2004 the second in Kyoto Japan in 2006 Both dealt specifically with the precise timing of physical events and teasing out of the effects which these changing environments climates global chemistry and palaeogeography had on the development and diversification of animals culminating in the spectacular Ediacaran Vendian faunas of the late Precambrian *The Influence of Cooperative Bacteria on Animal Host Biology* Margaret J. McFall Ngai, Brian Henderson, Edward G. Ruby, 2005-08-22 Broad ranging and cross disciplinary overview of the evolution and mechanisms of beneficial host pathogen interactions **The History and Sedimentology of Ancient Reef Systems** George D. Stanley Jr., 2013-11-11 From the Preface The chapters of this book contain contributions from an international group of specialists They address some important themes in both modern and ancient reef systems Some chapters contain snapshots of reefs of particular intervals while others touch on relevant themes of both modern and ancient reefs themes that weave their way through reefs of all ages This book opens and sets the stage with an introduction to both modern and ancient reefs and reef ecosystems This chapter is also intended as a basic introduction for students general geologists and professionals or others who may be unfamiliar with reefs and reef ecosystems The chapter addresses the living coral reef ecosystem stressing among other relevant factors the importance of

ecological and physical interactions between the organisms and their environment The chapter also addresses mass extinction and provides a general overview of the history of reefs

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