



Origin And Evolution Of Mammals

Donald R. Prothero



Origin And Evolution Of Mammals:

The Origin and Evolution of Mammals T. S. Kemp, 2005 Mammals are the dominant large animals of today occurring in virtually every environment This book is an account of the remarkable 320 million year long fossil record that documents their origin their long spell as no more than small nocturnal creatures and their explosive radiation since the extinction of the dinosaurs 65 million years ago Tom Kemp also unveils the exciting molecular evidence which coupled with important new fossils is presently challenging current thinking on the interrelationships and historical biogeography of mammals The Origin and Evolution of Mammals will be of interest to advanced undergraduate and graduate students as well as researchers in vertebrate palaeontology biogeography mammalian systematics and molecular taxonomy It will also be welcomed by vertebrate fossil enthusiasts and evolutionary biologists of all levels with an interest in macroevolutionary problems *The Origin and Evolution of Mammals* Thomas Stainforth Kemp, 2005 The Synapsida are the mammal like reptiles and mammals a group that diverged from a common ancestor shared with reptiles and birds about 340 million years The fossil record of the synapsids is extraordinarily good and documents the three phases of the history of the group each one of which points to important evolutionary generalisations as well as relating an intrinsically fascinating story The first stage leads from the origin of the group to the earliest mammals The non mammalian synapsids constituted the first radiation of fully terrestrial vertebrates dominating the land long before the dinosaurs displaced them and took over that role The fossil record illustrates the relationship between this radiation and the environmental conditions of the Permo Triassic when it occurred It also illustrates to a far greater degree than any other fossil record the origin of a major new taxon The sequence of acquisition of mammalian structures and functions inferred from the fossils leads to an interpretation about the processes involved in the evolution of mammalian biological organisation The second stage is the Mesozoic history of mammals Throughout the Jurassic and Cretaceous Periods mammals remained small insectivorous or omnivorous animals living a nocturnal existence They were abundant and diverse but failed completely to evolve into any of the middle sized and large sized forms familiar amongst today's mammals This is usually though not completely satisfactorily explained by competitive exclusion by dinosaurs The third stage is the great Cenozoic radiation of mammals From the moment the dinosaurs disappeared 65 million years ago new kinds of mammals proceeded to evolve Medium and large bodied herbivore and carnivore groups appeared early and from then onwards a kaleidoscope of origins flourishings and extinctions of lineages of mammals took place This great story interweaves changing climates shifting continents ecological opportunities and the fulfilment of the adaptive potential of Mammalia The latest molecular evidence that is having a huge impact on ideas about the timing and origins of the modern mammalian taxa is discussed along with the fossil evidence The book reviews these three stages in turn bringing up to date the palaeontological evidence and incorporating the molecular taxonomic data that has been rapidly accumulating over the last few years and which is responsible for a series of exciting radical new ideas about relationships amongst

mammals and their inferred palaeo biogeographic history *Mammal-like Reptiles and the Origin of Mammals* Thomas Stainforth Kemp, 1982 *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 Mammals from the Age of Dinosaurs Zofia Kielan-Jaworowska, Richard L. Cifelli, Zhe-Xi Luo, 2005-02-05 Few aspects of American military history have been as vigorously debated as Harry Truman's decision to use atomic bombs against Japan In this carefully crafted volume Michael Kort describes the wartime circumstances and thinking that form the context for the decision to use these weapons surveys the major debates related to that decision and provides a comprehensive collection of key primary source documents that illuminate the behavior of the United States and Japan during the closing days of World War II Kort opens with a summary of the debate over Hiroshima as it has evolved since 1945 He then provides a historical overview of the events in question beginning with the decision and program to build the atomic bomb Detailing the sequence of events leading to Japan's surrender he revisits the decisive battles of the Pacific War and the motivations of American and Japanese leaders Finally Kort examines ten key issues in the discussion of Hiroshima and guides readers to relevant primary source documents scholarly books and articles The Origin of Higher Taxa T.S. Kemp, 2015-12-16 In the grand sweep of evolution the origin of radically new kinds of organisms in the fossil record is the result of a relatively simple process natural selection marching through the ages Or is it Does Darwinian evolution acting over a sufficiently long period of time really offer a complete explanation or are unusual genetic events and particular environmental and ecological circumstances also involved With *The Origin of Higher Taxa* Tom Kemp sifts through the layers of paleobiological genetic and ecological evidence on a quest to answer this essential game changing question of biology Looking beyond the microevolutionary force of Darwinian natural selection Kemp enters the realm of macroevolution or evolution above the species level From the origin of mammals to the radiation of flowering plants these large scale patterns such as the rise of novel organismal design adaptive radiations and lineage extinctions encompass the most significant trends and transformations in evolution As macroevolution cannot be studied by direct observation and experiment scientists have to rely on the outcome of evolution as evidence for the processes at work in the form of patterns of species appearances and extinctions in a spotty fossil record and through the

nature of species extant today Marshalling a wealth of new fossil and molecular evidence and increasingly sophisticated techniques for their study Kemp here offers a timely and original reinterpretation of how higher taxa such as arthropods mollusks mammals birds and whales evolved a bold new take on the history of life

Mammalogy Terry A. Vaughan, James M. Ryan, Nicholas J. Czaplewski, 2013-12-11 Mammalogy is the study of mammals from the diverse biological viewpoints of structure function evolutionary history behavior ecology classification and economics Thoroughly updated the Sixth Edition of Mammalogy explains and clarifies the subject as a unified whole The text begins by defining mammals and summarizing their origins It moves on to discuss the orders and families of mammals with comprehensive coverage on the fossil history current distribution morphological characteristics and basic behavior and ecology of each family of mammals The third part of the text progresses to discuss special topics such as mammalian echolocation physiology behavior ecology and zoogeography The text concludes with two additional chapters previously available online that cover mammalian domestication and mammalian disease and zoonoses

Mammalogy George A. Feldhamer, Lee C. Drickamer, Stephen H. Vessey, Joseph F. Merritt, Carey Krajewski, 2015-01-01 Reflecting the expertise and perspective of five leading mammalogists the fourth edition of Mammalogy Adaptation Diversity Ecology significantly updates taxonomy includes a new chapter on mammalian molecular phylogenetics and highlights several recently described species There are close to 5 500 species in the class Mammalia including the blue whale the largest animal that has ever lived and the pygmy shrew which weighs little more than a penny The functional diversity of mammals has allowed them to play critical roles in every ecosystem whether marine freshwater alpine tundra forest or desert Many mammal species are critically endangered and present complex conservation and management challenges This book touches on those challenges which are often precipitated by overharvesting and habitat loss as well as emerging threats such as the impact of wind turbines and white nose syndrome on bats and chronic wasting disease on deer Among the updates and additions to the fourth edition of Mammalogy are numerous new photos figures and cladograms over 4 200 references as well as A completely new chapter on mammalian phylogeny and genomics Current taxonomy including major changes to orders suborders and superfamilies of bats and rodents An explanation of the recent inclusion of whales with terrestrial even toed ungulates Updates on mammalian structural functional adaptations and fossil history recent advances in our understanding of phylogeny biogeography social behavior and ecology A discussion of two new orders and thirteen newly recognized extant families Reflections on the implications of climate change for mammals Thorough examinations of several recently described species including Durrell's vontsira Salanoia durrelli and the Laotian rock rat Laonastes aenigmamus An explanation of mammalian biomechanics such as that seen in lunge feeding of baleen whales Breakout boxes on unique aspects of mammals including the syntax of bat songs singing mice and why there are no green mammals unless we count algae covered sloths Maintaining the accessible readable style for which Feldhamer and his coauthors are well known this new edition of Mammalogy is the authoritative

textbook on this amazingly diverse class of vertebrates

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

Strickberger's Evolution Brian Hall, Benedikt Hallgrímsson, 2008 Thoroughly updated and reorganized Strickberger's Evolution Fourth Edition presents biology students with a basic introduction to prevailing knowledge and ideas about evolution discussing how why and where the world and its organisms changed throughout history Keeping consistent with Strickberger's engaging writing style the authors carefully unfold a broad range of philosophical and historical topics that frame the theories of today including cosmological and geological evolution and its impact on life the origins of life on earth the development of molecular pathways from genetic systems to organismic morphology and function the evolutionary history of organisms from microbes to animals and the numerous molecular and populational concepts that explain the earth's dynamic evolution

A Text-book of Geology: Historical geology Louis Valentine Pirsson, Charles Schuchert, 1924

Strickberger's Evolution Brian Keith Hall, Benedikt Hallgrímsson, Monroe W. Strickberger, 2014 The fifth Edition of Strickberger's Evolution is updated with the latest data and updates from the field The authors took care to carefully modify the chapter order in an effort to provide a more clear and student friendly presentation of course material The original scope and theme of this popular text remains as it continues to present an overview of prevailing evidence and theories about evolution by discussing how the world and its organisms arose and changed over time New boxed features concentrating on modern and exciting research in the field are included throughout the text New and Key Features of the Fifth Edition New Full color design and art program Maintains the student friendly engaging writing style for which it is known A reorganized chapter order provides a more clear and accessible presentation of course material Chapters on the evolution of biodiversity are now found on the text's website Access to the companion website is included with every new copy of the text New boxed

features highlight new and exciting research in the field Historical Geology Charles Schuchert, 1924 **Beasts Before Us** Elsa Panciroli, 2021-06-10 For most of us the story of mammal evolution starts after the asteroid impact that killed the dinosaurs but over the last 20 years scientists have uncovered new fossils and used new technologies that have upended this story In *Beasts Before Us* palaeontologist Elsa Panciroli charts the emergence of the mammal lineage Synapsida beginning at their murky split from the reptiles in the Carboniferous period over three hundred million years ago They made the world theirs long before the rise of dinosaurs Travelling forward into the Permian and then Triassic periods we learn how our ancient mammal ancestors evolved from large hairy beasts with accelerating metabolisms to exploit miniaturisation which was key to unlocking the traits that define mammals as we now know them Elsa criss crosses the globe to explore the sites where discoveries are being made and meet the people who make them In Scotland she traverses the desert dunes of prehistoric Moray where quarry workers unearthed the footprints of Permian creatures from before the time of dinosaurs In South Africa she introduces us to animals once called mammal like reptiles that gave scientists the first hints that our furry kin evolved from a lineage of egg laying burrowers In China new complete fossilised skeletons reveal mammals that were gliders shovel pawed Jurassic moles and flat tailed swimmers This book radically reframes the narrative of our mammalian ancestors and provides a counterpoint to the stereotypes of mighty dinosaur overlords and cowering little mammals It turns out the earliest mammals weren't just precursors they were pioneers Mammalian Evolutionary Morphology Eric J. Sargis, Marian Dagosto, 2008-05-21 This book celebrates the contributions of Dr Frederick S Szalay to the field of Mammalian Evolutionary Morphology Professor Szalay is a strong advocate for biologically and evolutionarily meaningful character analysis He has published about 200 articles six monographs and six books on this subject This book features subjects such as the evolution and adaptation of mammals and provides up to date articles on the evolutionary morphology of a wide range of mammalian groups Origin, Evolution and Biogeographic History of South American Turtles Marcelo S. de la Fuente, Juliana Sterli, Ignacio Maniel, 2013-10-17 The extended continental South American turtle record Norian to Lujanian allows us to follow the evolution of this reptile clade from its origins Several significant stem turtle taxa such as *Palaeochersis talampayensis* and *Condorchelys antiqua* provide information on the first steps of turtle evolution Others such as *Chubutemys copelloi* or *Patagoniaemys gasparinae* provide clues to the origin of the bizarre horned tortoises of the clade *Meiolaniidae* The panpleurodiran species such as *Notoemys laticentralis* or *Notoemys zapatocaensis* shed light on the origin of modern pleurodiran turtles This book explores aquatic and terrestrial cryptodiran turtles South Gondwana pleurodiran turtles North Gondwana pleurodiran turtles *Meiolaniforms* and early differentiation of Mesozoic turtles **Mammalogy** Terry Vaughan, James Ryan, Nicholas Czaplewski, 2011-04-21 Newly revised and extensively updated the fifth edition of *Mammalogy* explains and clarifies the subject of mammalian biology as a unified whole taking care to discuss the latest and most fascinating discoveries in the field In recent years we witnessed significant changes in the taxonomy of mammals The

authors kept pace with such changes and revised each chapter to reflect the most current data and statistics available New pedagogical elements including chapter outlines lists of key morphological characteristics and further reading sections help readers grasp the most important concepts and explore additional content on their own Book Jacket

The Princeton Field Guide to Prehistoric Mammals Donald R. Prothero, 2016-12-06 The ultimate illustrated guide to the lost world of prehistoric mammals After the mass extinction of the dinosaurs 65 million years ago mammals became the dominant terrestrial life form on our planet Roaming the earth were spectacular beasts such as saber toothed cats giant mastodons immense ground sloths and gigantic giraffe like rhinoceroses Here is the ultimate illustrated field guide to the lost world of these weird and wonderful prehistoric creatures A woolly mammoth probably won't come thundering through your vegetable garden any time soon But if one did this would be the book to keep on your windowsill next to the binoculars It covers all the main groups of fossil mammals discussing taxonomy and evolutionary history and providing concise accounts of the better known genera and species as well as an up to date family tree for each group No other book presents such a wealth of new information about these animals what they looked like how they behaved and how they were interrelated In addition this unique guide is stunningly illustrated throughout with full color reconstructions of these beasts many never before depicted along with photographs of amazing fossils from around the world Provides an up to date guidebook to hundreds of extinct species from saber toothed cats to giant mammoths Features a wealth of color illustrations including new reconstructions of many animals never before depicted Demonstrates evolution in action such as how whales evolved from hoofed mammals and how giraffes evolved from creatures with short necks Explains how mass extinctions and climate change affected mammals including why some mammals grew so huge

Evolution and Belief Robert J. Asher, 2012-02-23 Asher draws on his experiences as a paleontologist and a religious believer arguing that science does not contradict religious belief

Mammals from the Age of Dinosaurs Zofia Kielan-Jaworowska, Richard L. Cifelli, Zhe-Xi Luo, 2005-02-05 Few aspects of American military history have been as vigorously debated as Harry Truman's decision to use atomic bombs against Japan In this carefully crafted volume Michael Kort describes the wartime circumstances and thinking that form the context for the decision to use these weapons surveys the major debates related to that decision and provides a comprehensive collection of key primary source documents that illuminate the behavior of the United States and Japan during the closing days of World War II Kort opens with a summary of the debate over Hiroshima as it has evolved since 1945 He then provides a historical overview of the events in question beginning with the decision and program to build the atomic bomb Detailing the sequence of events leading to Japan's surrender he revisits the decisive battles of the Pacific War and the motivations of American and Japanese leaders Finally Kort examines ten key issues in the discussion of Hiroshima and guides readers to relevant primary source documents scholarly books and articles

Origin And Evolution Of Mammals Book Review: Unveiling the Power of Words

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