


FUNCTIONAL MORPHOLOGY
IN VERTEBRATE
PALEONTOLOGY



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J.J. THOMASON

Functional Morphology In Vertebrate Paleontology

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Functional Morphology in Vertebrate Paleontology Jeff Thomason, 1997-10-28 Looks at how fossil vertebrates moved and reproduced

Vertebrate Paleobiology Sergio F. Vizcaíno, M. Susana Bargo, Guillermo H. Cassini, Néstor Toledo, Gerardo De Iuliis, 2024-08-20 An essential introduction to the paleobiology of animal body size locomotion and feeding Paleobiology is the branch of evolutionary biology involved in the reconstruction of the life histories of extinct organisms It answers the questions How do we use fossils to reconstruct the size of prehistoric animals and How did they move and feed Drawing on a rich inventory of South American Miocene fossils Vertebrate Paleobiology A Form and Function Approach examines different aspects of functional morphology and how they are tested by paleontologists anatomists and zoologists Beginning with a review of various methodologies to interpret fossils the authors turn to the main concepts important to functional morphology and give examples of each They conclude by showing how functional morphology enables a dynamic broadscale reconstruction of the life of prehistoric animals during the South American Miocene Originally published in Spanish Vertebrate Paleobiology A Form and Function Approach provides a broad sweep of recent developments including theoretical and practical techniques applied to the study of extinct vertebrates

Great Transformations in Vertebrate Evolution Kenneth P. Dial, Neil Shubin, Elizabeth L. Brainerd, 2015-07-20 How did flying birds evolve from running dinosaurs terrestrial trotting tetrapods evolve from swimming fish and whales return to swim in the sea These are some of the great transformations in the 500 million year history of vertebrate life And with the aid of new techniques and approaches across a range of fields work spanning multiple levels of biological organization from DNA sequences to organs and the physiology and ecology of whole organisms we are now beginning to unravel the confounding evolutionary mysteries contained in the structure genes and fossil record of every living species This book gathers a diverse team of renowned scientists to capture the excitement of these new discoveries in a collection that is both accessible to students and an important contribution to the future of its field Marshaling a range of disciplines from paleobiology to phylogenetics developmental biology ecology and evolutionary biology the contributors attack particular transformations in the head and neck trunk appendages such as fins and limbs and the whole body as well as offer synthetic perspectives Illustrated throughout Great Transformations in Vertebrate Evolution not only reveals the true origins of whales with legs fish with elbows wrists and necks and feathered dinosaurs but also the relevance to our lives today of these extraordinary narratives of change

Muscles of Vertebrates Rui Diogo, Virginia Abdala, 2010-07-21 The Vertebrata is one of the most speciose groups of animals comprising more than 58 000 living species This book provides a detailed account on the comparative anatomy development homologies and evolution of the head neck pectoral and forelimb muscles of vertebrates It includes hundreds of illustrations as well as numerous tables showing t

The Armored Dinosaurs Kenneth Carpenter, 2001 Brings together the latest studies by an international group of dinosaur palaeontologists and provides descriptions of the original specimens of Hyaleosaurus and Stegosaurus

Amniote Paleobiology Matthew T. Carrano, 2006-08 Living amniotes including all mammals birds crocodilians snakes and turtles comprise an extraordinarily varied array of more than 21 000 species Found in every major habitat on earth they possess a truly remarkable range of morphological ecological and behavioral adaptations The fossil record of amniotes extends back three hundred million years and reveals much about modern biological diversity of form and function A collaborative effort of twenty four researchers Amniote Paleobiology presents thirteen new and important scientific perspectives on the evolution and biology of this familiar group It includes new discoveries of dinosaurs and primitive relatives of mammals studies of mammalian chewing and locomotion and examinations of the evolutionary process in plesiosaurs mammals and dinosaurs Emphasizing the rich variety of analytical techniques available to vertebrate paleontologists from traditional description to multivariate morphometrics and complex three dimensional kinematics Amniote Paleobiology seeks to understand how species are related to each other and what these relationships reveal about changes in anatomy and function over time A timely synthesis of modern contributions to the field of evolutionary studies Amniote Paleobiology furthers our understanding of this diverse group

Adaptation Michael R. Rose, George V. Lauder, 1996-09-22 The study of evolutionary adaptation returns to the center stage of biology with this important volume This innovative treatise discusses new developments in adaptation with new methods and new theoretical foundations achievements and prospects for a rich intellectual future It is an insightful reintroduction to the themes that Darwin and his successors regarded as central to any profound understanding of biology

Feeding Kurt Schwenk, 2000-08-03 As the first four legged vertebrates called tetrapods crept up along the shores of ancient primordial seas feeding was among the most paramount of their concerns Looking back into the mists of evolutionary time fish like ancestors can be seen transformed by natural selection and other evolutionary pressures into animals with feeding habitats as varied as an anteater and a whale From frog to pheasant and salamander to snake every lineage of tetrapods has evolved unique feeding anatomy and behavior Similarities in widely divergent tetrapods vividly illustrate their shared common ancestry At the same time numerous differences between and among tetrapods document the power and majesty that comprises organismal evolutionary history Feeding is a detailed survey of the varied ways that land vertebrates acquire food The functional anatomy and the control of complex and dynamic structural components are recurrent themes of this volume Luminaries in the discipline of feeding biology have joined forces to create a book certain to stimulate future studies of animal anatomy and behavior

Reconstructing Behavior in the Primate Fossil Record J. Michael Plavcan, Richard F. Kay, William L. Jungers, Carel P. van Schaik, 2012-12-06 This volume brings together a series of papers that address the topic of reconstructing behavior in the primate fossil record The literature devoted to reconstructing behavior in extinct species is overwhelming and very diverse Sometimes it seems as though behavioral reconstruction is done as an afterthought in the discussion section of papers relegated to the status of informed speculation But recent years have seen an explosion in studies of adaptation functional

anatomy comparative sociobiology and development Powerful new comparative methods are now available on the internet At the same time we face a rapidly growing fossil record that offers more and more information on the morphology and paleoenvironments of extinct species Consequently inferences of behavior in extinct species have become better grounded in comparative studies of living species and are becoming increasingly rigorous We offer here a series of papers that review broad issues related to reconstructing various aspects of behavior from very different types of evidence We hope that in so doing the reader will gain a perspective on the various types of evidence that can be brought to bear on reconstructing behavior the strengths and weaknesses of different approaches and perhaps new approaches to the topic We define behavior as broadly as we can including life history traits locomotion diet and social behavior giving the authors considerable freedom in choosing what exactly they wish to explore

Early Miocene Paleobiology in Patagonia Sergio F. Vizcaíno, Richard F. Kay, M. Susana Bargo, 2012-10-11 Coastal exposures of the Santa Cruz Formation in southern Patagonia have been a fertile ground for recovery of Early Miocene vertebrates for more than 100 years This volume presents a comprehensive compilation of important mammalian groups which continue to thrive today It includes the most recent fossil finds as well as important new interpretations based on ten years of fieldwork by the authors A key focus is placed on the paleoclimate and paleoenvironment during the time of deposition in the Middle Miocene Climatic Optimum MMCO between twenty and fifteen million years ago The authors present the first reconstruction of what climatic conditions were like and present important new evidence of the geochronological age habits and community structures of fossil bird and mammal species Academic researchers and graduate students in paleontology paleobiology paleoecology stratigraphy climatology and geochronology will find this a valuable source of information about this fascinating geological formation

The Dissection of Vertebrates Gerardo De Iuliis, Dino Pulerà, 2006-08-03 The Dissection of Vertebrates Second Edition provides students with a manual that combines pedagogical effective text with high quality accurate and attractive visual references Using a systemic approach within a systematic framework for each vertebrate this book covers several animals commonly used in providing an anatomical transition sequence Seven animals are covered lamprey shark perch mudpuppy frog pigeon and cat This updated version include a revised systemic section of the introductory chapter corrections to several parts of the existing text and images new comparative skull sections included as part of the existing vertebrates and a companion site with image bank This text is designed for 2nd or 3rd year university level comparative vertebrate anatomy courses Such courses are usually two semester courses and may either be a required course or an elective It is typically a required course for Biology and Zoology majors as well as for some Forensics and Criminology programs and offered as an elective for many other non zoology science majors Winner of the NYSM Jury award for the Rock Dove Air Sacs Lateral and Ventral Views illustration Expertly rendered award winning illustrations accompany the detailed clear dissection direction Organized by individual organism to facilitate classroom presentation Offers coverage of a wide range of vertebrates Full color strong pedagogical

aids in a convenient lay flat presentation Expanded and updated features on phylogenetic coverage mudpuppy musculature and comparative mammalian skulls *Paleontology and Geology of the Upper Triassic (Revueltoian) Snyder Quarry, New Mexico* Kate E. Zeigler, Andrew B. Heckert, Spencer G. Lucas, 2003 [Time of the Giants](#) Thom Holmes, 2008 The Middle and Late Jurassic Periods saw the largest land animals ever to walk the Earth the sauropods Dinosaurs are thought to have been active energetic creatures that used a variety of methods to maintain a constant body temperature This fully illustrated book examines the scientific view of dinosaurs as living creatures *The Complete Dinosaur* James Orville Farlow, M. K. Brett-Surman, 1997 A highly illustrated celebration of dinosaurs for general readers presenting a thorough survey from the earliest discoveries to contemporary controversies over extinction Chapters are written by experts in fields including functional morphology paleobiology and biogeography with sections on the discovery of dinosaurs the study of dinosaurs groups of dinosaurs their biology and dinosaur evolution Highlights include discussion of new information on the warm blooded cold blooded debate new insights into the possibility of isolating dinosaur DNA and a special section on dinosaurs in the media While touted as accessible treatment is sophisticated and assumes an educated and highly motivated readership Includes a glossary and bandw and color photos drawings paintings and diagrams Annotation copyrighted by Book News Inc Portland OR **The American Development of Biology** Ronald Rainger, Keith R. Benson, Jane Maienschein, 2016-11-11 Selected as one of the Best Sci Tech Books of 1988 by Library Journal The essays in this volume represent original work to celebrate the centenary of the American Society of Zoologists They illustrate the impressive nature of historical scholarship that has subsequently focused on the development of biology in the United States [The Evolution of the Primate Foot](#) Angel Zeininger, Kevin G. Hatala, Roshna E. Wunderlich, Daniel Schmitt, 2022-12-07 The human foot is a unique and defining characteristic of our anatomy Most primates have grasping prehensile feet whereas the human foot stands out as a powerful non grasping propulsive lever that is central to our evolution as adept bipedal walkers and runners and defines our lineage Very few books have compiled and evaluated key research on the primate foot and provided a perspective on what we know and what we still need to know This book serves as an essential companion to The Evolution of the Primate Hand volume also in the Developments in Primatology series This book includes chapters written by experts in the field of morphology and mechanics of the primate foot the role of the foot in different aspects of primate locomotion including but not limited to human bipedalism the hard evidence of primate foot evolution including fossil foot bones and fossil footprints and the relevance of our foot s evolutionary history to modern human foot pathology This volume addresses three fundamental questions 1 What makes the human foot so different from that of other primates 2 How does the anatomy biomechanics and ecological context of the foot and foot use differ among primates and why 3 how did foot anatomy and function change throughout primate and human evolution and why is this evolutionary history relevant in clinical contexts today This co edited volume which relies on the insights of leading scholars in primate foot anatomy and evolution provides for the first

time a comprehensive review and scholarly discussion of the primate foot from multiple perspectives It is accessible to readers at different levels of inquiry e g undergraduate graduate students postdoctoral research other scholars outside of biological anthropology This volume provides an all in one resource for research on the comparative and functional morphology and evolution of the primate foot *Journal of Vertebrate Paleontology* ,2012 **Cenozoic Mammals of Africa** Lars Werdelin,William Joseph Sanders,2010-07-20 This impressively comprehensive volume is a long awaited and worthy successor to the now outdated 1978 classic Evolution of African Mammals A must have reference work for everyone interested in mammalian evolution David Pilbeam Harvard University and the Peabody Museum of Archaeology and Ethnology **Dinosaurs of the Air** Gregory S. Paul,2002-05 This book synthesises the growing body of evidence which suggests that modern day birds have evolved from theropod dinosaurs of prehistoric times The author argues that the ancestor descendant relationship can also be reversed *Biology of the Sauropod Dinosaurs* Nicole Klein,2011 Summarizes the latest research findings on the biology of the sauropod dinosaurs the largest land living animals and covers nutrition physiology skeletal structure and growth

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