

VERTEBRATES

SUBPHYLUM: VERTEBRATA

Two infraphyla and their groups

Agnatha
(Jawless Fish)



Hagfish



Lampreys

Gnathostomata
(Jawed Vertebrates)

Osteichthyes
(Bony Fish)

Chondrichthyes
(Cartilaginous Fish)



Rays



Sharks



Ratfish

Actinopterygii
(Ray-finned Fish)

Sarcopterygii
(Lobe-finned Fish)

Cladistia

Chondrostei

Holostei

Teleostei

Actinistia

Dipnomorpha

Tetrapoda



Bichirs



Sturgeons



Bowfins



98% of
living fish
species



Coelacanths



Lungfish



Amphibians



Reptiles



Paddlefish



Gars



Birds



Mammals

Evolution Of The Vertebrates

Guillaume Favre



Evolution Of The Vertebrates:

Evolution of the Vertebrates Edwin H. Colbert, 1980-08-12 A comprehensive survey of vertebrate evolution based upon our knowledge of the fossil record New edition introduces concept of Plate Tectonics and is completely up to date Contains many attractive illustrations Presupposes no prior scientific background **Evolution of the Vertebrates** Edwin H. Colbert, Michael Morales, 1991-04-08 An investigation of the evolution of backboned animals vertebrates now appearing in its

Fourth Edition Traces the history of each major vertebrate group from its origin to its extinction or the emergence of the next more advanced group Contains drawings and illustrations depicting lifelike renderings of these creatures of the past

Evolution of the Vertebrates Edwin Harris Colbert, 1969

Colbert's Evolution of the Vertebrates Edwin H.

Colbert, Eli C. Minkoff, Michael Morales, 2001-09-24 Vertebrate evolution is studied through comparative anatomy and functional morphology of existing vertebrates as well as fossil records Since the publication of the previous edition of Colbert's *Evolution of the Vertebrates A History of the Backboned Animals Through Time* there have been significant advances in the knowledge surrounding backboned animals This latest edition of the classic text is completely revised to offer the most recent discoveries in this continually evolving field of science Covering the various aspects of vertebrate life from skeletal system to ecology behavior and physiology the Fifth Edition includes new sections on conodonts dinosaurs primates and the origin of birds and discusses Analysis of morphological and molecular data Early diversification of vertebrates The evolution of dinosaurs The origin of mammals Early ruling reptiles Basic adaptation of ungulates Colbert's *Evolution of the Vertebrates* Fifth Edition carries on its legacy as an invaluable reference for professionals in evolutionary biology and paleontology as well as an ideal textbook for students in those fields The Pattern of Vertebrate Evolution L. B. Halstead, 1968 November 1994

Patterns and Processes of Vertebrate Evolution Robert Lynn Carroll, 1997-04-28 The factors that influenced the evolution of the vertebrates are compared with the importance of variation and selection that Darwin emphasised in this broad study of the patterns and forces of evolutionary change *The Evolution of the Vertebrates and Their Kin* William Patten, 1912

Evolution of the vertebrates Edwin Harris Colbert, 1961 **Colbert's Evolution of the Vertebrates**

Edwin Harris Colbert, Michael Morales, Eli C. Minkoff, 2002 **Major Events in Early Vertebrate Evolution** Per Erik Ahlberg, 2001-02-15 A multi author volume Major Events in Early Vertebrate Evolution examines the origin and early evolution of the backboned animals vertebrates the group which comprises all fishes amphibians reptiles birds and mammals including ourselves This volume draws together evidence from fossils genes and developmental biology the study of how embry **Evolution of the Vertebrates a History of the Back Boned Animals** Edwin H. Colbert, 1980 **Complex**

Organismal Functions D. B. Wake, 1989-09-28 Complex Organismal Functions Integration and Evolution in Vertebrates D B Wake G Roth Editors The complexity of forms and functions of organisms studied in an evolutionary context prompts a fundamental question of modern biology how did complex functional systems apparently stabilized by high degrees of

integration evolve to their present diversity This and related questions were discussed by 48 distinguished scientists from many fields of vertebrate biology including functional and comparative morphologists neurobiologists reproductive biologists and endocrinologists developmental biologists ecologists ethologists population geneticists and theorists at a Dahlem Workshop This volume is a report of that meeting The major areas of discussion were evolutionary diversification of feeding mechanisms evolution of locomotor systems trends in reproductive biology especially the repeated evolution of vertebrate viviparity and alternative and complementary concepts of the production of evolutionary novelties and patterns These topics reflect the excitement and dynamism of current debate in evolutionary biology and constitute a cohesive point of departure for further research

Vertebrate Evolution Donald R. Prothero, 2022-04-19 The first vertebrate animals appear in the fossil record over 520 million years ago These lineages diversified and eventually crept ashore leading to further evolutionary divergence and the appearance of the familiar charismatic vertebrates of today From the tiniest fishes diminutive salamanders and miniaturized lizards to gargantuan dinosaurs enormous brontotheres and immense whales vertebrates have captured the imagination of the lay public as well as the most erudite academics They are the among the best studied organisms This book employs beautifully rendered illustrations of these diverse lineages along with informative text to document a rich evolutionary history The prolific and best selling author reveals much of the latest findings regarding the phylogenetic history of vertebrates without overwhelming the reader with pedantry and excessive jargon Simultaneously comprehensive and authoritative while being approachable and lucid this book should appeal to both the scholar the student and the fossil enthusiast Key Features Provides an up to date account of evolution of vertebrates Includes numerous beautiful color reconstructions of prehistoric vertebrates Describes extinct vertebrates and their evolutionary history Discusses and illustrates the first vertebrates as well as familiar lineages of fishes amphibians reptiles birds and mammals Reviews mass extinctions and other important events in the diversification of vertebrates Related Titles Bard J Evolution The Origins and Mechanisms of Diversity ISBN 9780367357016 B hmer C et al Atlas of Terrestrial Mammal Limbs ISBN 9781138705906 Diogo R et al Muscles of Chordates Development Homologies and Evolution ISBN 9781138571167 Schweitzer M H et al Dinosaurs How We Know What We Know ISBN 9780367563813 Evolution Of The Vertebrates And Their Kin ,1912

Evolution of the Vertebrates. A History of the Backboned Animals Through Time. [With Illustrations.]. Edwin Harris Colbert, 1955 The Vertebrate Integument Volume 1 Theagarten Lingham-Soliar, 2014-02-18 The vertebrate integument arose about 450 million years ago as an armour of dermal bony plates in small jawless fish like creatures informally known as the ostracoderms This book reviews the major changes that have occurred in the vertebrate integument from its beginnings to the present day Critical questions concerning the origin structure and functional biology of the bony integument are discussed and intrinsically linked to major steps in vertebrate evolution and phylogeny the origin of jaws and the origin of teeth The discussions include the origins of mineralization of major vertebrate skeletal components such as the

dermatocranium branchial arches and vertebral column The advances that led to the origin of modern fishes and their phylogenetic development are reviewed and include the evolution of fins and replacement of the bony plates with several types of dermal scales The evolution of reptiles saw a major transformation of the integument with the epidermis becoming the protective outermost layer from which the scales arose while the dermis lay below it The biological significance of the newly evolved keratin in reptilian scales among the toughest natural materials known is discussed in the context of its major contribution to the great success of reptiles and to the evolution of feathers and avian flight The dermis in many vertebrates is strengthened by layers of oppositely oriented cross fibres now firmly entrenched as a design principle of biomechanics Throughout the book conventional ideas are discussed and a number of new hypotheses are presented in light of the latest developments The long evolutionary history of vertebrates indicates that the significance of the Darwinian concept of survival of the fittest may be overstated including in our own mammalian origins and that chance often plays a major role in evolutionary patterns Extensive illustrations are included to support the verbal descriptions Professor Theagarten Lingham Soliar is in the Department of Life Sciences at the University of KwaZulu Natal *Major Patterns in Vertebrate Evolution* Max Hecht, 2013-11-11 This volume is the result of a NATO Advanced Study Institute held in England at Kingswood Hall of Residence Royal Holloway College London University Surrey during the last two weeks of July 1976 The ASI was organized within the guide lines laid down by the Scientific Affairs Division of the North Atlantic Treaty Organization During the past two decades significant advances have been made in our understanding of vertebrate evolution The purpose of the Institute was to present the current status of our knowledge of vertebrate evolution above the species level Since the subject matter was obviously too broad to be covered adequately in the limited time available selected topics problems and areas which are applicable to vertebrate zoology as a whole were reviewed The program was divided into three areas 1 the theory and methodology of phyletic inference and approaches to the analysis of macroevolutionary trends as applied to vertebrates 2 the application of these methodological principles and analytical processes to different groups and structures particularly in anatomy and paleontology 3 the application of these results to classification The basic principles considered in the first area were outlined in lectures covering the problems of character analysis functional morphology karyological evidence biochemical evidence morphogenesis and biogeography *Wie Evolution of the Vertebrates* Colbert, 1971-01-01

Structure and Habit in Vertebrate Evolution George Stuart Carter, 1971 **Major Transitions in Vertebrate Evolution** Jason S. Anderson, Hans-Dieter Sues, 2007-09-11 New discoveries of ancient vertebrates filling in gaps in the fossil record are quickly eroding the traditionally recognized differences between the principal groups of vertebrates for example between dinosaurs and birds and radically changing our understanding of the evolutionary history of the major group of animals to which our species belongs This book describes this changing scientific landscape and contributes to the revolution in our knowledge of the developmental mechanisms that underlie evolutionary transformation

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