Homberger Vertebrate Dissection

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The British National Bibliography - Arthur James Wells 2005

The University of Chicago Magazine - 2005

Sharks, Skates, and Rays - William C. Hamlett 1999-05-21

Successor to the classic work in shark studies, The Elasmobranch Fishes by John Franklin Daniel (first published 1922, revised 1928 and 1934), Sharks, Skates, and Rays provides a comprehensive and up-todate overview of elasmobranch morphology. Coverage has been expanded from anatomy to include modern information on physiology and biochemistry. The new volume also provides equal treatment for skates and rays. The authors present general introductory material for the relative novice but also review the latest technical citations, making the book a valuable primary reference resource. More than 200 illustrations supplement the text.

Muscles of Vertebrates - Rui Diogo 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 the homologies between the muscles of all the major extant vertebrate taxa, including lampreys, elasmobranchs, hagfish, coelacanths, dipnoans, actinistians, teleosts, halecomorphs, ginglymodians, chondrosteans, caecilians, anurans, urodeles, turtles, lepidosaurs, crocodylians, birds, and mammals such as monotremes, rodents, tree-shrews, flying lemurs and primates, including modern humans. It also provides a list of more than a thousand synonyms that have been used by other authors to designate these muscles in the literature. Importantly, it also reviews data obtained in the fields of evolutionary developmental biology, molecular biology and embryology, and explains how this data helps to understand the evolution and homologies of vertebrate muscles. The book will useful to students, teachers, and researchers working in fields such as functional morphology, ecomorphology, evolutionary developmental biology, zoology, molecular biology, evolution, and phylogeny. As the book includes crucial information about the anatomy, development, homologies, evolution and muscular abnormalities of our own species, Homo sapiens, it will also be helpful to physicians and medical students.

Anatomy and Dissection of the Fetal Pig - Warren F. Walker 1997-12-15

Careful step-by-step explanations, helpful diagrams and illustrations, and detailed discussions of the structure and function of each system make this an optimal laboratory resource. Custom Publishing Create a customized version of this text or mix and match it with similar titles with W.H. Freeman Custom Publishing!

The Dissection of Vertebrates - Gerardo De Iuliis 2006-08-03

The Dissection of Vertebrates covers several vertebrates commonly used in providing a transitional sequence in morphology. With illustrations on seven vertebrates - lamprey, shark, perch, mudpuppy, frog, cat, pigeon - this is the first book of its kind to include high-quality, digitally rendered illustrations. This book received the Award of Excellence in an Illustrated Medical Book from the Association of Medical Illustrators. It is organized by individual organism to facilitate classroom presentation. This illustrated, fullcolor primary dissection manual is ideal for use by students or practitioners working with vertebrate

anatomy. This book is also recommended for researchers in vertebrate and functional morphology and comparative anatomy. The result of this exceptional work offers the most comprehensive treatment than has ever before been available. * Received the Award of Excellence in an Illustrated Medical Book from the Association of Medical Illustrators * 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

The Biology of the Avian Respiratory System - John N. Maina 2017-04-28 The central focus of this book is the avian respiratory system. The authors explain why the respiratory system of modern birds is built the way it is and works the way that it does. Birds have been and continue to attract particular interest to biologists. The more birds are studied, the more it is appreciated that the existence of human-kind on earth very much depends directly and indirectly on the existence of birds. Regarding the avian respiratory system, published works are scattered in biological journals of fields like physiology, behavior, anatomy/morphology and ecology while others appear in as far afield as paleontology and geology. The contributors to this book are world-renowned experts in their various fields of study. Special attention is given to the evolution, the structure, the function and the development of the lung-air sac system. Readers will not only discover the origin of birds but will also learn how the respiratory system of theropod dinosaurs worked and may have transformed into the avian one. In addition, the work explores such aspects as swallowing mechanism in birds, the adaptations that have evolved for flight at extreme altitude and gas exchange in eggs. It is a highly informative and carefully presented work that provides cutting edge scientific insights for readers with an interest in the respiratory biology and the evolution of birds.

Cell Biology and Genetics - Cecie Starr 2005-09 Brief non-major biology text includes Unit 1 and Unit II from BIOLOGY: THE UNITY AND DIVERSITY OF

Infotrac College edition.

Ani mal Structure and Function Gecie Starr 2004

Each volume contains chapters from the 1-volume version of the 10th ed. plus the appendices. Heads, Jaws, and Muscles - Janine M. Ziermann 2019-01-23 The vertebrate head is the most complex part of the animal body and its diversity in nature reflects a variety of life styles, feeding modes, and ecological adaptations. This book will take you on a journey to discover the origin and diversification of the head, which evolved from a seemingly headless chordate ancestor. Despite their structural diversity, heads develop in a highly conserved fashion in embryos. Major sensory organs like the eyes, ears, nose, and brain develop in close association with surrounding tissues such as bones, cartilages, muscles, nerves, and blood vessels. Ultimately, this integrated unit of tissues gives rise to the complex functionality of the musculoskeletal system as a result of sensory and neural feedback, most notably in the use of the vertebrate jaws, a major vertebrate innovation only lacking in hagfishes and lampreys. The cranium subsequently further diversified during the major transition from fishes living in an aquatic environment to tetrapods living mostly on land. In this book, experts will join forces to integrate, for the first time, state-of-the-art knowledge on the anatomy, development, function,

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diversity, and evolution of the head and jaws and their muscles within all major groups of extant vertebrates. Considerations about and comparisons with fossil taxa, including emblematic groups such as the dinosaurs, are also provided in this landmark book, which will be a leading reference for many years to come.

*Outline of Cat Anatom*Stephen G. Gilbert 2000-01-01

The cat has been used as a subject for dissection in the study of mammalian anatomy for almost two centuries. The very popular Pictorial Anatomy of the Cat by Stephen G. Gilbert, originally published in 1967 and now in its 12th printing, has been used in countless laboratories as a guide to dissection and supplement to introductory textbooks. Outline of Cat Anatomy is an abridged version of the original guide, modified for practical use in one-semester courses. It employs anatomical terms used in human rather than veterinary anatomy and includes illustrations of human anatomy that may be compared with those of the cat, especially useful for the many students who do not have access to human dissections. Gilbert searlier Pictorial Anatomy of the Cat is "an excellent, well-illustrated dissection guide for use in courses in comparative anatomy. The text is informative and accurate, and instructions for dissection are clear and helpful.... Highly recommended." [Choice

Functional Anatomy of the Vertebrates - Karel F. Liem 2001

This book introduces students to the groups of vertebrates and explores the anatomical evolution of vertebrates within the context of the functional interrelationships of organs and the changing environments to which vertebrates have adapted. The text contains all of the material taught in classic comparative anatomy courses, but integrates this material with current research in functional anatomy. This integration adds a new dimension to our understanding of structure and helps students understand the evolution of vertebrates.

Vertebrate DissectionWarren Franklin Walker 1992

This classic lab manual offers instructions for the dissection of representative vertebrates for any vertebrate dissection course.

Bulletin of the Buffalo Society of Natural Sciences - Buffalo Society of Natural Sciences 2003 Vol. 18 (1938) "Seventy-five years; a history of the Buffalo society of natural sciences, 1861-1936" (3 p. 1., 5-204 p.).

Atlas of Fish Histology - Franck Genten 2009

Many books emphasize the pathological histology of fish, but this volume fills a gap in the literature by focusing on normal fish histology. A general reference guide, it provides an extensive set of histological images of fish, discussing approximately 40 species. The book presents histology as a discipline--including its methodology and techniques--and its goals of investigating the structure and function of tissue samples. By histologically examining the normal physiology of fish tissue, scientists can gain insight into signs of disease not easily recognized on gross examination.

The Dissection of Vertebrates - Gerardo De Iuliis 2019-07-24

Detailed and concise dissection directions, updated valuable information and extraordinary illustrations make The Dissection of Vertebrates, 3rd Edition the new ideal manual for students in comparative vertebrate anatomy, as well as a superb reference for vertebrate and functional morphology, vertebrate paleontology, and advanced level vertebrate courses, such as in mammalogy, ornithology, ichthyology, and herpetology. This newly revised edition of the most comprehensive manual available continues to offer today's more visually oriented student with a manual combining pedagogically effective text with highquality, accurate and attractive visual references. This new edition features updated and expanded phylogenetic coverage, revisions to the illustrations and text of the lamprey, shark, perch, mudpuppy, frog, cat, pigeon, and reptile skull chapters, and new sections on amphioxus or lancelet (Branchiostoma, Cephalochodata), a sea squirt (Ciona, Urochordata), shark musculature, a gravid shark, shark embryo, cat musculature, and the sheep heart. Using the same systematic approach within a systemic framework as the first two editions, The Dissection of Vertebrates, 3rd Edition covers several animals commonly used in providing an anatomical transition sequence. Nine animals are covered: amphioxus, sea squirt, lamprey, shark, perch, mudpuppy, frog, cat, and pigeon, plus five reptile skulls, two mammal skulls, and the sheep heart. Winner of a 2020 Textbook Excellence Award (College) (Texty) from the Textbook and Academic

Authors Association Seven detailed vertebrate dissections, providing a systemic approach Includes carefully developed directions for dissection Original, high-quality award-winning illustrations Clear and sharp photographs Expanded and updated features on phylogenetic coverage New sections on: amphioxus (Cephalochordata); sea squirt (Urochordata); shark musculature; gravid shark; shark embryo; cat musculature; sheep heart

Erkrankungen Der Zootiere2001

Consists of the proceedings of the Internationales Symposium über die Erkrankungen der Zootiere, 1959-; proceedings of the Internationalen Symposiums über die Erkrankungen der Zoo- und Wildtiere, 2001-Vertebrate Dissection - Dominique G. Homberger 2004 This classic laboratory manual offers instructions for the dissection of representative vertebrates for any vertebrate dissection course. It encourages & facilitates active & self-directed learning by students. A Reanalysis of Acrocanthosaurus atokensis, its Phylogenetic Status, and Paleobiogeographic Implications, Based on a New Specimen from Texas - Jerald David Harris 1998

A Study of the Cat with Reference to Human Beings - Warren Franklin Walker 1993

The Morphology of Xenarthrous Vertebrae (Mammalia: Xenarthra) - Timothy James Gaudin 1999

Essential Fish Biology - Derek Burton 2017

Essential Fish Biology provides an introductory overview of the functional biology of fish and how this may be affected by the widely contrasting habitat conditions within the aquatic environment. It describes the recent advances in comparative animal physiology which have greatly influenced our understanding of fish function as well as generating questions that have yet to be resolved. Fish taxa represent the largest number of vertebrates, with over 25,000 extant species. However, much of our knowledge, apart from taxonomy and habitat descriptions, has been based on relatively few of them, usually those which live in fresh water and/or are of commercial interest. Unfortunately there has also been a tendency to base our interpretation of fish physiology on that of mammalian systems, as well as to rely on a few type species of fish. This accessible textbook will redress the balance by using examples of fish from a wide range of species and habitats, emphasizing diversity as well as recognizing shared attributes with other vertebrates. Anatomy and Dissection of the Rat - Warren F. Walker 1997-12-15 The careful explanation of each step of the dissection, helpful diagrams and illustrations, and detailed discussion of the structure and function of each system in Anatomy and Dissection of the Rat, Third Edition, optimize the educational value of the dissection process. These laboratory exercises are available as a bound set for the first time ever; They're still offered separately, as well. This popular series, which includes Anatomy and Dissection of the Frog and Anatomy and Dissection of the Fetal Pig, is geared toward introductory courses in biology, comparative anatomy, and zoology. Ecol ogy and Behavi or Cecie Starr 2005-11

This brief and specialized book was designed for general non-major biology courses and includes population ecology, communities, ecosystems, biosphere, human impact on the biosphere, and animal behavior. ECOLOGY AND BEHAVIOR covers Unit VII from BIOLOGY: THE UNITY AND DIVERSITY OF LIFE, 11th Edition. For the 11th edition of BIOLOGY: UNITY AND DIVERSITY OF LIFE, Cecie Starr and Ralph Taggart made it their goal to "solve" some of the toughest Introductory Biology course challenges. We introduce a new issues-oriented approach with engages students in current, motivating biological topics; a built-in cross-referencing system for key topics; and, most importantly, time-saving media resources for instructors. Organ Development - 2019-02-21

Organ Development, Volume 132, the latest release in the Current Topics in Developmental Biology series, highlights new advances in the field, with this new volume presenting interesting chapter written by an international board of authors. This volume highlights cogent reviews of the development, maintenance and regeneration/repair of several organ systems, from eye to kidney, to the musculoskeletal system. Many reviews highlight new techniques or technologies that are currently pushing the field. The role of both embryonic and adult stem cells are highlighted and senior authors are all women scientists. Provides the

authority and expertise of leading contributors from an international board of author Presents the latest release in this series Updated release includes the latest information on organ development Reproductive Biology and Phylogeny of Chondricht-MWälliam C. Hamlett 2011-10-14 Internal fertilization is universal in chondrichthyan fishes and, as such, requires a suite of biological activities, including behavioral, morphological and physiological mechanisms, to ensure successful copulation and fertilization. This volume correlates available data and ideas concerning the development, reproductive morphology, function, and

Plant Structure and Function - Cecie Starr 2004

Each volume contains chapters from the 1-volume version of the 10th ed. plus the appendices. Paperbound Books in Print Fall 1995 - Reed Reference Publishing 1995-10

Mechanism of Inflation Behavior in the Swellshark, Cephaloscyllium Ventriosum (Scyliorhinidae)

- Scott Donald Matthews 2001

Biology - Cecie Starr 2006

Accompanying CD-ROM covers topics in the same order as the text, with a guiz and flashcards for each chapter, as well as hundreds of animations, interactive sequences, and movies, and a link to the publisher's biology website.

Developments in X-ray Tomography - 2006

Domestic Turkey, Meleagris Gallopa Koumudini Nishantha De Silva 1995

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.

Comparative Anatomy - Dale W. Fishbeck 2015-03-01

This full-color manual is a unique guide for students conducting the comparative study of representative vertebrate animals. It is appropriate for courses in comparative anatomy, vertebrate zoology, or any course in which the featured vertebrates are studied.

How the Anteater Got Its Tongue - Karen Zich Reiss 1997

Ant- and termite-eating mammals in the orders Xenarthra and Pholidota are often cited as examples of convergent evolution. This is a premature conclusion because the phylogenetic interrelationships of

relevant taxa are controversial and the most thorough anatomical studies of relevant taxa are not comparative. The present study re-examines the phylogeny of xenarthran and pholidotan genera, documents the morphology of the feeding apparatus in representative xenarthran and pholidotan species and interprets it phylogenetically, and concludes with a review of structure, function and evolution of the feeding apparatus in ant- and termite-eating mammals. A published data set containing a variety of morphological characters for xenarthran genera (Engelmann, 1978) was revised, extended to include the hypothetical xenarthran sister taxon Pholidota, and analyzed cladistically. Xenarthran monophyly was not supported and the pholidotan pangolins, which comprise the entire order, were placed in a clade with the xenarthran anteaters. The feeding apparatus of xenarthran anteaters (Cyclopes didactylus, Tamandua mexicana, Myrmecophaga jubata) was examined and found to be characterized by numerous muscular anomalies: sternoglossus muscles with a xiphoid origin comprise the tongue, small and simple jaw closing muscles, a mylohyoideus that arises from the dentary, basicranium and soft palate, a palatoglossus with basihyal origin that doesn't enter the tongue, no styloglossus, a robust stylopharyngeus that enters the soft palate, and a sternomandibularis. All but the last of these features was also found in pangolins (Manis tricuspis, M. pentadactyla, M. javanica). No other mammalian myrmecophage, including other myrmecophagous xenarthrans, shares this suite of characters; there is no evidence that these characters are non-independent. Cladistic analysis of all feeding apparatus muscles in Xenarthra and Pholidota (specifically, the anteater and pangolin taxa listed above, the armadillos Dasypus novemcinctus and Chlamyphorus truncatus, the sloths Choloepus hoffmani and Bradypus variegatus, the domestic dog Canis familiaris representing derived eutherians, and the marsupial opposum Didelphis virginianus as an Functional Anatomy of the Integument and Subcutaneous Structures of the Head, Neck and Thorax on Utgheup) yields results identical to those of the revised Engelmann data set. Consequently, the numerous uniquely derived features shared by anteaters and pangolins are interpreted as similarities inherited from a common myrmecophagous ancestor, and are not an example of convergent evolution. Mammalia - 2002

> Biology in the Laboratory - Doris R. Helms 1997-12-15 Provides a choice of 46 laboratory topics and more than 200 experiments. Includes a diversity of instructional approaches, including simple guided inguiries, more complex experimental designs, and original student investigations.

The Journal of Experimental Biology - 1998

Functional Anatomy of the Vertebrates - Warren Franklin Walker 1994

Muscles of Chordates - Rui Diogo 2018-04-17

Chordates comprise lampreys, hagfishes, jawed fishes, and tetrapods, plus a variety of more unfamiliar and crucially important non-vertebrate animal lineages, such as lancelets and sea squirts. This will be the first book to synthesize, summarize, and provide high-quality illustrations to show what is known of the configuration, development, homology, and evolution of the muscles of all major extant chordate groups. Muscles as different as those used to open the siphons of sea squirts and for human facial communication will be compared, and their evolutionary links will be explained. Another unique feature of the book is that it covers, illustrates, and provides detailed evolutionary tables for each and every muscle of the head, neck and of all paired and median appendages of extant vertebrates.