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This atlas contains 189 coloured images taken from transversal, horizontal and sagittal sections of eleven organisms widely used in university teaching. Six invertebrate and five vertebrate species – from the nematode worm (Ascaris suum) to mammals (Rattus norvegicus) – are shown in detailed images. Studying the macrosections with unaided eyes, with a simple magnifier or binocular microscope might be of great help to accomplish traditional anatomical studies and to establish a certain spatial experience/space perception. This volume will be of great interest for biology students, researchers and teachers of comparative anatomy. It might act as supporting material of practical courses. Furthermore, medical practitioners, agricultural specialists and researchers having an interest in comparative anatomy might also benefit from it. This work is based entirely on personal observations. Atlas of Comparative Vertebrate Histology looks at the histology of a wide range of vertebrates, representative of all the major classes and families, with examples ranging from amphioxus to primates. The authors focus their microscope on commonly seen vertebrates as well as ‘non-standard’ species, such as lamprey, hagfish, dogfish, skate, rock bass, cod, river catfish, toad, amphiuma, leopard and bull frog, garter and brown snake, Coturnix quail and cowbird. The study of comparative histology in the vertebrates helps students and researchers alike understand how various groups have addressed similar problems, opening doors to interesting research possibilities. Not all vertebrates follow the mammalian model of tissue and organ structure. When dealing with unique species, we see some structures taken beyond their ‘normal’ function. Comparative histology allows us to understand the structural responses underlying the physiology unique to each vertebrate group. Presents the histology of a wide range of vertebrates, representative of all the major classes and families, with examples ranging from amphioxus to primates Includes an image gallery with over 500 flat images and 50+ virtual microscopy slides Contains electronic content features cross linking between text, tables and the image gallery This one-semester text is designed for an upper-level majors course. Vertebrates features a unique emphasis on function and evolution of vertebrates, complete anatomical detail, and excellent pedagogy. Vertebrate groups are organized phylogenetically, and their systems discussed within such a context. Morphology is foremost, but the author has developed and integrated an understanding of function and evolution into the discussion of anatomy of the various systems. This high-quality laboratory manual may accompany any comparative anatomy text, but correlates directly to Kardong's Vertebrates: Comparative Anatomy, Function, Evolution text. This lab manual carefully guides students through dissections and is richly illustrated. First and foremost, the basic animal architecture is presented in a clear and concise manner. Throughout the dissections, the authors pause strategically to bring the students' attention to the significance of the material they have just covered. 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, full-color 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 Comparative Vertebrate Neuroanatomy Evolution and Adaptation Second Edition Ann B. Butler and William Hodos The Second Edition of this landmark text presents a broad survey ofcomparative vertebrate neuroanatomy at the introductory level,representing a unique contribution to the field of evolutionaryneurobiology. It has been extensively revised and updated, withsubstantially improved figures and diagrams that are usedgenerously throughout the text. Through analysis of the variationin brain structure and function between major groups ofvertebrates, readers can gain insight into the evolutionary historyof the nervous system. The text is divided into threesections: * Introduction to evolution and variation, including a survey ofcell structure, embryological development, and anatomicalorganization of the central nervous system; phylogeny and diversityof brain structures; and an overview of various theories of brainevolution * Systematic, comprehensive survey of comparative neuroanatomyacross all major groups of vertebrates * Overview of vertebrate brain evolution, which integrates thecomplete text, highlights diversity and common themes, broadensperspective by a comparison with brain structure and evolution ofinvertebrate brains, and considers recent data and theories of theevolutionary origin of the brain in the earliest vertebrates,including a recently proposed model of the origin of the brain inthe earliest vertebrates that has received strong support fromnewly discovered fossil evidence Ample material drawn from the latest research has been integratedinto the text and highlighted in special feature boxes, includingrecent views on homology, cranial nerve organization and evolution,the relatively large and elaborate brains of birds in correlationwith their complex cognitive abilities, and the current debate onforebrain evolution across reptiles, birds, and mammals. Comparative Vertebrate Neuroanatomy is geared to upper-levelundergraduate and graduate students in neuroanatomy, but anyoneinterested in the anatomy of the nervous system and how itcorresponds to the way that animals function in the world will findthis text fascinating. "Comparative Anatomy of Vertebrates is written bearing in mind that the modern trends of studies on the chordates have changed drastically from the classical study of one or two commonly available representative types to a detailed comparative account of organs and organ systems present in all available extant forms." "The book provides an introduction to structure-function concept at the level of organs and organ systems, which is fundamental to the understanding of synthesis of comparative anatomy. The book is divided into twelve chapters. The first chapter deals with characteristics of chordates, followed by integumentry system, skeletal system, muscular system, digestive system, respiratory system, circulatory system, excretory system, reproductive system, nervous system, receptor system and lastly endocrine system."--BOOK JACKET. This one-semester text is designed for an upper-level majors course. Vertebrates features a unique emphasis on function and evolution of vertebrates, complete anatomical detail, and excellent pedagogy. Vertebrate groups are organized phylogenetically, and their systems discussed within such a context. Morphology is foremost, but the author has developed and integrated an understanding of function and evolution into the discussion of anatomy of the various systems. This book has been considered by academicians and scholars of great significance and value to literature. This forms a part of the knowledge base for future generations. So that the book is never forgotten we have represented this book in a print format as the same form as it was originally first published. Hence any marks or annotations seen are left intentionally to preserve its true nature. Comparative Anatomy Atlas presents illustrations on the body structures of different species of animals. The book first presents drawings on Squalus acanthias, including dorsal, ventral, and posterior views of the chondrocranium, cross and sagittal sections of the trunk and caudal vertebrae, dorsal, pectoral, and caudal fins, and axial musculature. The publication also shows drawings on Nectums macuhsus, as well as ventral view of the shoulder and pelvic girdle, anterior and lateral views of the thoracic, sacral, and caudal vertebrae, dorsal and ventral views of the anterior musculature, and ventral view of the heart and efferent vessels. The manuscript offers drawings on Felis domesticus, including lateral and medial views of the muscles of the hind limb, lateral view of the rib cage, dorsal and ventral views of the skull and cervical vertebrae, and ventral view of male and female urogenital systems. The book is a dependable reference for readers interested in comparative anatomy. 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. This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work.As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. This one-semester text is designed for an upper-level majors course. Vertebrates features a unique emphasis on function and evolution of vertebrates, complete anatomical detail, and excellent pedagogy. Vertebrate groups are organized phylogenetically, and their systems discussed within such a context. Morphology is foremost, but the author has developed and integrated an understanding of function and evolution into the discussion of anatomy of the various systems. 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 high-quality, 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 The purpose of this book, now in its third edition, is to introduce the morphology of vertebrates in a context that emphasizes a comparison of structire and of the function of structural units. The comparative method involves the analysis of the history of structure in both developmental and evolutionary frameworks. The nature of adaptation is the key to this analysis. Adaptation of a species to its environment, as revealed by its structure, function, and reproductive success, is the product of mutation and natural selection–the process of evolution. The evolution of structure and function, then, is the theme of this book which presents, system by system, the evolution of structure and function of vertebrates. Each chapter presents the major evolutionary trends of an organ system, with instructions for laboratory exploration of these trends included so the student can integrate concept with example. This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. This text presents both the vertebraic structure and its evolutionary development and significance, allowing students to learn why a structure is the way it is, as well as what it is. There is an integration of structure and anatomy, emphasising the comparative nature of anatomy, and showing the evolution of different structures. There are 16 full-colour pages as well as numerous illustrations showing anatomical detail, especially at the cellular level. The coverage of cladistics is completely new to this edition. 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. Includes coverage of the lamprey, dogfish shark, perch, mudpuppy, bullfrog, pigeon, and cat. Evolutionary concepts, comparative morphology, and histology are covered comprehensively. Loose-leaf and three-hole drilled.