

Homberger Vertebrate Dissection

Vertebrate Dissection The Biology of the Avian Respiratory System The Dissection of Vertebrates Outline of Cat Anatomy Vertebrate Dissection Vertebrate Dissection Functional Anatomy of the Vertebrates Functional Anatomy of the Integument and Subcutaneous Structures of the Head, Neck and Thorax of the Domestic Turkey, Meleagris Gallopavo Functional Anatomy of the Vertebrates A Study of the Cat with Reference to Human Beings Fieldiana Developments in X-ray Tomography The Morphology of Xenarthrous Vertebrae (Mammalia: Xenarthra) Atlas of Fish Histology How the Anteater Got Its Tongue Mammalia Mechanism of Inflation Behavior in the Swellshark, Cephaloscyllium Ventriosum (Scyliorhinidae) Animal Structure and Function Cell Biology and Genetics The Journal of Experimental Biology Dominique G. Homberger John N. Maina Gerardo De Iuliis Stephen G. Gilbert Warren Franklin Walker Warren Franklin Walker Warren Franklin Walker Kumudini Nishantha De Silva Karel F. Liem Warren Franklin Walker Timothy James Gaudin Franck Genten Karen Zich Reiss Scott Donald Matthews Cecie Starr Cecie Starr

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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

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 cephalochordata 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 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 s earlier 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

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

vertebrate dissection ninth edition provides exceptionally thorough and student tested descriptions of dissection procedures and the steps needed to find all structures it encourages and facilitates active and self directed learning by the students so that instructors can teach more effectively and efficiently the manual emphasizes dissection procedures that preserve as many structures as possible for later review of the entire specimens this approach is an excellent preparation for students who will subsequently take anatomy courses in the health and animal sciences moreover this manual places the observed material into an evolutionary and functional context students will understand the biological role physiology and embryonic development of each organ system and its parts and how the various organ systems have

evolved over time and in different animals organized by organ systems this text brings the anatomy alive for students by interspersing narrative text throughout and explaining how the shape and structure of an organ relates to its function and how evolutionary processes have transformed the form and function of organs additionally the authors introduce a new feature anatomy in action boxes which contain interesting supplemental material that provides a broader context some of these boxes relate to functional anatomy some make comparisons between different animals and some address general biological questions that may include comparisons to the anatomy and biology of human beings

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

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

each volume contains chapters from the 1 volume version of the 10th ed plus the appendices

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