

# Homberger Vertebrate Dissection

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*Henry Newell Martin*

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

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 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

this high quality laboratory manual may accompany any comparative anatomy text but correlates directly to kardong s vertebrates comparative anatomy function evolution text this text carefully guides students through dissections and is richly illustrated first and foremost the basic animal architecture is presented in a clear and concise manner this richly illustrated manual carefully guides students through dissections throughout the dissections the authors pause strategically to bring the students attention to the significance of the material they have just covered

as its title indicates this is a book for use in a practical comparative anatomy course it is intended for a somewhat unusual class of student and consequently its contents outlook and method of treatment are unlike those of the standard texts in this subject as stated in the preface it is assumed that the student has already done a course in elementary zoology including the usual vertebrate types and has also examined in more detail a mammal unless this mammal were man a number of comparisons in the book would be missed to obtain full benefit from it the student should obviously have taken the preliminary medical studies including a fair amount of human anatomy this is not meant to imply that the student of advanced zoology cannot get many useful hints and fresh points of view from its pages he undoubtedly can the types treated in a series of regional dissections are the lamprey the dogfish squalus necturus the lizard and the dog as it is intended for assistance in dissection information regarding osteology and the details of the central nervous system have been purposely omitted and conversely the muscles are treated somewhat more fully than is customary

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

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

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