Animal Physiology: From Genes to Organisms (with InfoTrac)

Lauralee Sherwood, Hillar Klandorf, Paul Yancey
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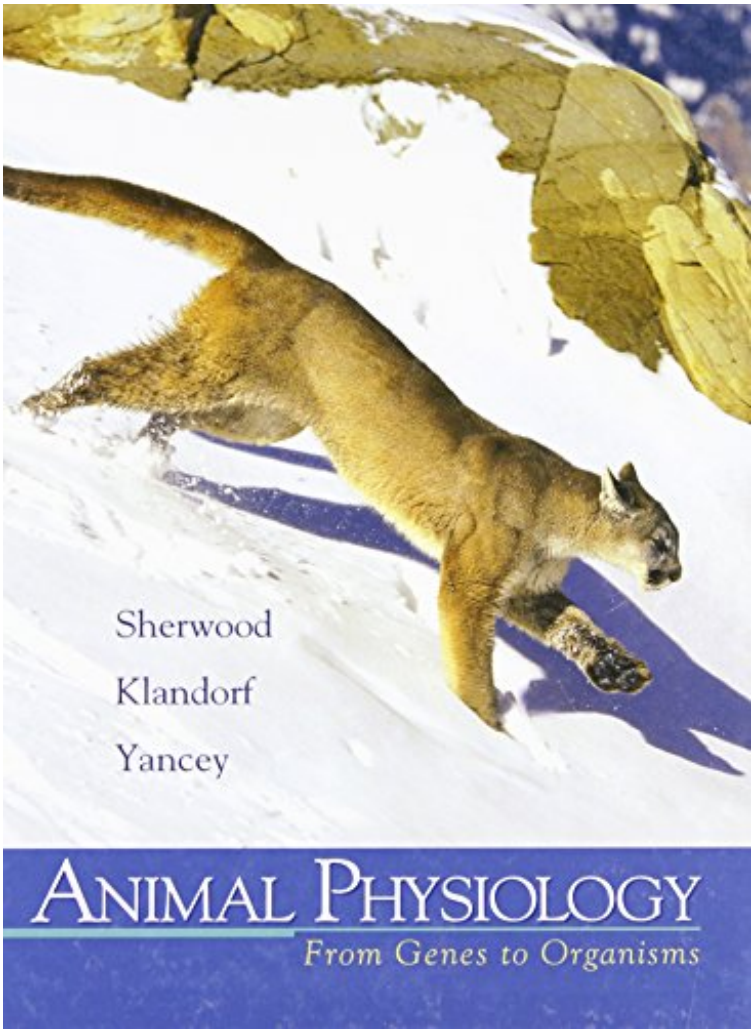

#789565 in Books 2004-09-15Ingredients: Example IngredientsOriginal language:EnglishPDF # 1 1.21 x 8.68 x 11.14l, 1.10 #File Name: 0534554040840 pages | File size: 66.Mb

Lauralee Sherwood, Hillar Klandorf, Paul Yancey : Animal Physiology: From Genes to Organisms (with InfoTrac) before purchasing it in order to gage whether or not it would be worth my time, and all praised Animal Physiology: From Genes to Organisms (with InfoTrac):

3 of 3 people found the following review helpful. Great Intro to Physiology BookBy BNewtI chose this book as a secondary resource to my Functional Anatomy and Physiology of Domestic Animals book by Reece. I choose to read this one after Reece because it goes into more depth about the physiology of body systems but it is still easy to read and very reader friendly. I try to read Dukes after this one, but that book seems so dry to me. There are a lot of diagrams, pictures, and flow charts that go along with the text, so it's great if you are a visual learner and need some a visual representation to understand body processes.Again this is only one of many resources that you can use and I

find that sometimes it does not go into as much detail as I would like but it is a great beginner book to introduce you to physiology of body systems without making you feel overwhelmed.0 of 0 people found the following review helpful. Well writtenBy MaeNeeded it for an animal physiology class. It is explains material quite clearly and is easy to understand. Overall, it is a well written textbook.0 of 0 people found the following review helpful. Four StarsBy CustomerWell-written and had a good number of charts and table to help summarize and explain information. Would recommend

Intended for students in the biological and agricultural sciences, ANIMAL PHYSIOLOGY has been written to promote the true conceptual understanding necessary to keep pace with today's rapid advances in the biological sciences. ANIMAL PHYSIOLOGY takes an "integrative systems" approach, designed to illustrate the individual organization as well as the collective interdependence of each complete physiological system. The text begins with chapters on integrative principles and on the genomic, molecular, and cellular basis of physiology, then proceeds to chapters on individual organ systems. For each organ system, evolutionary forces as well as current cellular and molecular research are discussed. To clearly illustrate system interdependence-how integrated organ systems yield a whole, functioning animal-each systems chapter contains a summary, titled "Chapter in Perspective: Homeostasis and Integration." In addition, special integrative chapters-"Fluid and Acid-Base Balance" and "Energy Balance and Thermal Physiology"-focus on crucial whole-body phenomena that are dependent on more than one organ system. To make the text even more accessible to students, the authors also incorporate a comparative approach to animal physiology-examining the basic physiology of many vertebrate and invertebrate animals as well as their primary diseases and ability to respond to environmental changes. These comparisons between types of animals are included to explain important universal functions and principles, thus emphasizing the unity of life. Unique or striking adaptations are featured to reveal the diversity that can result from evolutionary adaptation. Finally, the authors incorporate detailed coverage of those animal species, particularly vertebrates, which will be of relevance to students preparing for animal-related careers.

About the AuthorFollowing graduation from Michigan State University in 1966, Dr. Lauralee Sherwood joined the faculty at West Virginia University, where she is currently a Professor in the Department of Physiology and Pharmacology, School of Medicine. For the past 40 years, Professor Sherwood has taught an average of over 400 students each year in physiology courses for pharmacy, medical technology, physical therapy, occupational therapy, nursing, medical, dental, dental hygiene, nutrition, exercise physiology, and athletic training majors. She has authored three physiology textbooks: HUMAN PHYSIOLOGY: FROM CELLS TO SYSTEMS, FUNDAMENTALS OF HUMAN PHYSIOLOGY, and ANIMAL PHYSIOLOGY: FROM GENES TO ORGANISMS, all published by Cengage Learning/Brooks/Cole. Dr. Sherwood has received numerous teaching awards, including an Amoco Foundation Outstanding Teacher Award, a Golden Key National Honor Society Outstanding Faculty Award, two listings in Who's Who Among America's Teachers, and the Dean's Award of Excellence in Education.Hillar Klandorf is a Professor of Animal and Veterinary Science at West Virginia University. He completed his Ph.D. degree through the British Council for National Academic Awards (CNAA) After completing two post-doctoral research programs he spent 3 1/2 years at UCLA studying agents that affect the onset of diabetes, and currently he is investigating factors that limit the accelerated tissue aging associated with the elevated plasma glucose concentrations in birds. He instructs animal physiology and animal behavior classes at West Virginia University. ANIMAL PHYSIOLOGY incorporates current physiological issues and ideas generated from students enrolled in the Animal Physiology class.Paul H. Yancey is a Professor of Biology at Whitman College. SINCE earning a Ph.D. in Marine Biology (with an emphasis in Animal Physiology and Biochemistry) from U.C.S.D., he HAS conducted research on invertebrates, fishes, and mammals at the University of St. Andrews (Scotland), the National Institutes of Health, the Mt. Desert Island Biological Laboratory, HOPKINS MARINE STATION, the Monterey Bay Aquarium Research Institute, and the University of Otago (New Zealand), as well as at Whitman College. His research is on biochemical and physiological adaptations to water stress. He teaches animal physiology, human anatomy and physiology, marine biology, and bioethics, and has won several teaching awards. Dr. Yancey brings a broad evolutionary perspective and 24 years of teaching experience to the writing of this text.