Animal Physiology From Genes To Organisms

Steven J. Schapiro

Animal Physiology ,1829

Animal Physiology Lauralee Sherwood, Hillar Klandorf, Paul H. Yancey, 2013 Promoting a conceptual understanding and taking an integrative systems approach, ANIMAL PHYSIOLOGY, 2E, International Edition illustrates 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, each systems chapter contains a summary, titled Making Connections. 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 nonvertebrate animals as well as their primary diseases and ability to respond to environmental changes.

Introduction to Animal Physiology and Physiological Genetics E. M. Pantelouris, 1967

Scientific Frontiers in Developmental Toxicology and Risk Assessment National Research Council, Commission on Life Sciences, Board on Environmental Studies and Toxicology, Committee on Developmental Toxicology, 2000-12-21 Scientific Frontiers in Developmental Toxicology and Risk Assessment reviews advances made during the last 10-15 years in fields such as developmental biology, molecular biology, and genetics. It describes a novel approach for how these advances might be used in combination with existing methodologies to further the understanding of mechanisms of developmental toxicity, to improve the assessment of chemicals for their ability to cause developmental toxicity, and to improve risk assessment for developmental defects. For example, based on the recent advances, even the smallest, simplest laboratory animals such as the fruit fly, roundworm, and zebrafish might be able to serve as developmental toxicological models for human biological systems. Use of such organisms might allow for rapid and inexpensive testing of large numbers of chemicals for their potential toxicity; presently, there are little or no developmental toxicity data available for the majority of natural and manufactured chemicals in use. This new approach to developmental toxicology and risk assessment will require simultaneous research on several fronts by experts from multiple scientific disciplines, including developmental toxicologists, developmental biologists, geneticists, epidemiologists, and biostatisticians.

Molecular Biology of the Cell, 2002

Animal Physiology Lauralee Sherwood, Hillar Klandorf, Paul H. Yancey, 2005

Concepts of Biology Samantha Fowler, Rebecca Roush, James Wise, 2024-09-10 Concepts of Biology is designed for the typical introductory biology course for nonmajors, covering standard scope and sequence requirements. The text includes interesting applications and conveys the major themes of biology, with content that is meaningful and easy to understand. The book is designed to demonstrate biology concepts and to promote scientific literacy.

Development and Reproduction in Humans and Animal Model Species Werner A. Mueller, Monika Hassel, Maura Grealy, 2015-01-03 This book describes human development including sexual reproduction and stem cell research with the development of model organisms that are accessible to genetic and experimental analysis in readily understandable texts and 315 multi-colored graphics. The introductory account of model organisms selected from the entire animal kingdom presents general principles, which are then outlined in subsequent chapters devoted to, for example, sexual development; genes controlling development and their contemporary molecular-analysis methods; production of clones and transgenic animals; development of the nervous and circulatory systems; regenerative medicine and ageing. Finally the evolution of developmental toolkits and novelties is discussed including the genetic basis of the enlargement of the human forebrain. Separate boxes are devoted to controversial questions such as the benefits and problems of prenatal diagnostics or the construction of ancient body plans.

Clinical Biochemistry of Domestic Animals J. J. Kaneko, C. E. Cornelius, 2014-05-10 Clinical Biochemistry of Domestic Animals, Second Edition, Volume I, is a major revision of the first edition prompted by the marked expansion of knowledge in the clinical biochemistry of animals. In keeping with this expansion of knowledge, this edition is comprised of two volumes. Chapters on the pancreas, thyroid, and pituitary-adrenal systems have been separated and entirely rewritten. Completely new chapters on muscle metabolism, iron metabolism, blood clotting, and gastrointestinal function have been added. All the chapters of the first edition have been revised with pertinent new information, and many have been completely rewritten. This volume contains 10 chapters and opens with a discussion of carbohydrate metabolism and associated disorders. Separate chapters follow on lipid metabolism, plasma proteins, and porphyrins. Subsequent chapters deal with liver, pancreatic, and thyroid functions; the role of the pituitary and adrenal glands in health and disease; the function of calcium, inorganic phosphorus, and magnesium metabolism in health and disease; and iron metabolism.

<u>Genes in Development</u> Eva M. Neumann-Held, Christoph Rehmann-Sutter, 2006-01-27 In light of scientific advances such as genomics, predictive diagnostics, genetically engineered agriculture, nuclear transfer cloning, and the manipulation of stem cells, the idea that genes carry predetermined molecular programs or blueprints is pervasive. Yet new scientific discoveries—such as rna transcripts of single genes that can lead to the production of different compounds from the same

pieces of dna—challenge the concept of the gene alone as the dominant factor in biological development. Increasingly aware of the tension between certain empirical results and interpretations of those results based on the orthodox view of genetic determinism, a growing number of scientists urge a rethinking of what a gene is and how it works. In this collection, a group of internationally renowned scientists present some prominent alternative approaches to understanding the role of dna in the construction and function of biological organisms. Contributors discuss alternatives to the programmatic view of dna, including the developmental systems approach, methodical culturalism, the molecular process concept of the gene, the hermeneutic theory of description, and process structuralist biology. None of the approaches cast doubt on the notion that dna is tremendously important to biological life on earth; rather, contributors examine different ideas of how dna should be represented, evaluated, and explained. Just as ideas about genetic codes have reached far beyond the realm of science, the reconceptualizations of genetic theory in this volume have broad implications for ethics, philosophy, and the social sciences. Contributors. Thomas Bürglin, Brian C. Goodwin, James Griesemer, Paul Griffiths, Jesper Hoffmeyer, Evelyn Fox Keller, Gerd B. Müller, Eva M. Neumann-Held, Stuart A. Newman, Susan Oyama, Christoph Rehmann-Sutter, Sahotra Sarkar, Jackie Leach Scully, Gerry Webster, Ulrich Wolf

Animal Physiology Richard W. (Michigan State University) Hill,Gordon A. (University of Massachusetts Wyse, Amherst),Margaret (Smith College) Anderson,2017-10-05 Published by Sinauer Associates, an imprint of Oxford University Press.

Animal Models in Eye Research ,2011-04-28 The eye is a complex sensory organ, which enables visual perception of the world. Thus the eye has several tissues that do different tasks. One of the most basic aspects of eye function is the sensitivity of cells to light and its transduction though the optic nerve to the brain. Different organisms use different ways to achieve these tasks. In this sense, eye function becomes a very important evolutionary aspect as well. This book presents the different animal models that are commonly used for eye research and their uniqueness in evaluating different aspects of eye development, evolution, physiology and disease. - Presents information on the major animal models used in eye research including invertebrates and vertebrates - Provides researchers with information needed to choose between model organisms - Includes an introductory chapter on the different types of eyes, stressing possible common molecular machinery

The Behavior of Animals Johan J. Bolhuis,Luc-Alain Giraldeau,Jerry A. Hogan,2021-12-29 The Behavior of Animals An updated view of animal behavior studies, featuring global experts The Behavior of Animals, Second Edition provides a broad overview of the current state of animal behavior studies with contributions from international experts. This edition includes new chapters on hormones and behavior, individuality, and human evolution. All chapters have been thoroughly revised and updated, and are supported by color illustrations, informative callouts, and accessible presentation of technical information. Provides an introduction to the study of animal behavior Looks at an extensive scope of topics- from perception, motivation

and emotion, biological rhythms, and animal learning to animal cognition, communication, mate choice, and individuality. Explores the evolution of animal behavior including a critical evaluation of the assumption that human beings can be studied as if they were any other animal species. Students will benefit from an updated textbook in which a variety of contributors provide their expertise and global perspective in specialized areas

Use of Laboratory Animals in Biomedical and Behavioral Research National Research Council,Institute of Medicine,Institute for Laboratory Animal Research,Commission on Life Sciences,Committee on the Use of Laboratory Animals in Biomedical and Behavioral Research,1988-02-01 Scientific experiments using animals have contributed significantly to the improvement of human health. Animal experiments were crucial to the conquest of polio, for example, and they will undoubtedly be one of the keystones in AIDS research. However, some persons believe that the cost to the animals is often high. Authored by a committee of experts from various fields, this book discusses the benefits that have resulted from animal research, the scope of animal research today, the concerns of advocates of animal welfare, and the prospects for finding alternatives to animal use. The authors conclude with specific recommendations for more consistent government action.

Handbook of Primate Behavioral Management Steven J. Schapiro, 2017-07-12 Key features: Offers chapters by renowned experts which are comprised of three subunits: a theoretical discussion of the content area, a description of the methods employed to address the content area, and finally, and most importantly, a discussion of the ways that relevant aspects of the content area can be easily employed/adapted to enhance the behavioral management of NHPs Provides case studies that highlight the areas of expertise of the authors and emphasize 'success stories' that can be used to develop behavioral management strategies and build behavioral management programs Presents 'Genera-specific' chapters which focus on behavioral management strategies that, typically, are successfully employed with particular taxa of NHPs Includes a novel, pioneering 'Product/services' section that provides the producers of important technologies, equipment, and services with an opportunity to highlight the ways in which their products enhance the ability of their clients to manage the behavior of NHPs Illustrated with full color images and drawings throughout. The Handbook of Primate Behavioral Management (HPBM) fills a void in the scientific literature, providing those who work with nonhuman primates (NHPs) with a centralized reference for many issues related to the care and behavioral management of captive nonhuman primates. While there are numerous publications scattered throughout the literature that deal with the behavioral management of NHPs, this comprehensive handbook is the first single-source reference to summarize and synthesize this information. The HPBM is organized into six complementary parts starting with an introductory section. The book then provides in-depth coverage of content issues, applications and implementation, genera-specific chapters, technology-related questions involved in the behavioral management of NHPs, and a concluding section. Primate behavioral management is a topic that has recently generated a

considerable number of primary publications in the scientific literature, mostly with an applied focus. Similarly, there are many primary publications currently available that address more basic issues related to the understanding of primate behavior. One of the principal goals of the HPBM is to highlight and synthesize basic science advances that can be adapted and applied to enhance the behavioral management of captive NHPs.

Biotechnology in Animal Husbandry R. Renaville, A. Burny, 2006-04-11 Animal biotechnology is a broad umbrella encompassing the polarities of fundamental and applied research including molecular modelling, molecular and quantitative genetics, gene manipulation, development of diagnostics and vaccines and manipulation of tissue or digestion metabolism by growth promoters. Although animal biotechnology in the broadest sense is not new, what is new is the level of complexity and precision involved in scientists' current ability to manipulate living organisms. This new book sets out to show that the important ideas in animal biotechnology are exciting and relevant to everyday experience. It represents an important update of the literature for research workers, lecturers, and advisers in animal science, but is also a core text for advanced undergraduate courses in animal science and biotechnology. It will be an essential acquisition for librarians in agriculture and veterinary science.

Comparative Physiology of Fasting, Starvation, and Food Limitation Marshall D. McCue,2012-05-17 All animals face the possibility of food limitation and ultimately starvation-induced mortality. This book summarizes state of the art of starvation biology from the ecological causes of food limitation to the physiological and evolutionary consequences of prolonged fasting. It is written for an audience with an understanding of general principles in animal physiology, yet offers a level of analysis and interpretation that will engage seasoned scientists. Each chapter is written by active researchers in the field of comparative physiology and draws on the primary literature of starvation both in nature and the laboratory. The chapters are organized among broad taxonomic categories, such as protists, arthropods, fishes, reptiles, birds, and flying, aquatic, and terrestrial mammals including humans; particularly well-studied animal models, e.g. endotherms are further organized by experimental approaches, such as analyses of blood metabolites, stable isotopes, thermobiology, and modeling of body composition.

Physiological Genetics John G. Scandalios,2014-04-24 Physiological Genetics is a compilation of developments, contributed by experts in the field of physiological genetics. The articles contained in the book covers various accounts of developments in the field. The book starts with an introductory chapter describing genetic factors in developmental gene regulation, followed by discussions on enzyme differentiation, hormonal control of gene expression, biochemical genetics of morphogenesis, cytoplasmic male sterility in maize, plant somatic cell genetics, and the population dynamics of genetic polymorphism. Physiologists, biologists, geneticists, and students will find a valuable reference material.

Environmental Physiology of Animals Pat Willmer, Graham Stone, Ian Johnston, 2009-03-12 The new and updated

edition of this accessible text provides a comprehensive overview of the comparative physiology of animals within an environmental context. Includes two brand new chapters on Nerves and Muscles and the Endocrine System. Discusses both comparative systems physiology and environmental physiology. Analyses and integrates problems and adaptations for each kind of environment: marine, seashore and estuary, freshwater, terrestrial and parasitic. Examines mechanisms and responses beyond physiology. Applies an evolutionary perspective to the analysis of environmental adaptation. Provides modern molecular biology insights into the mechanistic basis of adaptation, and takes the level of analysis beyond the cell to the membrane, enzyme and gene. Incorporates more varied material from a wide range of animal types, with less of a focus purely on terrestrial reptiles, birds and mammals and rather more about the spectacularly successful strategies of invertebrates. A companion site for this book with artwork for downloading is available at: www.blackwellpublishing.com/willmer/

Temperature Biology of Animals Andrew Cossins,2012-12-06 Temperature is one facet in the mosaic of physical and biotic factors that describes the niche of an animal. Of the physical factors it is ecologically the most important. for it is a factor that is all-pervasive and one that. in most environments. lacks spatial or temporal constancy. Evolution has produced a wide variety of adaptive strategies and tactics to exploit or deal with this variable environmental factor. The ease with which temperature can be measured. and controlled experimentally. together with its widespread influence on the affairs of animals. has understandably led to a large. dispersed literature. In spite of this no recent book provides a comprehensive treatment of the biology of animals in relation to temperature. Our intention in writing this book was to fill that gap. We hope we have provided a modern statement with a critical synthesis of this diverse field. which will be suitable and stimulating for both advanced undergraduate and post graduate students of biology. This book is emphatically not intended as a monographical review. as thermal biology is such a diverse. developed discipline that it could not be encompassed within the confines of a book of this size.

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Animal Physiology From Genes To Organisms Introduction

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