

Animal Physiology Moyes

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Christopher D. Moyes Gary Ostrander Cram101 Textbook Reviews National Library of Medicine (U.S.) Hardwicke Drummond Rawnsley

principles of animal physiology second edition continues to set a new standard for animal physiology books with its focus on animal diversity its clear foundation in molecular and cell biology its concrete examples throughout and its fully integrated coverage of the endocrine system the book includes the most up to date research on animal genetics and genomics methods and models and offers a diverse range of vertebrate and invertebrate examples the cellular basis of animal physiology introduction to physiological principles chemistry biochemistry and cell physiology hormones and cell signaling neuron structure and function cellular movement and muscles integrating physiological systems sensory systems functional organization of nervous systems circulatory systems respiratory systems ion and water balance digestion locomotion thermal physiology reproduction market for all readers interested in animal physiology

principles of animal physiology by chris moyes and trish schulte is designed to provide second and third year undergraduate university students enrolled in animal physiology courses with an approach that balances its presentation of comparative physiology with mechanistic topics the book delivers the fundamentals of animal physiology while providing an integrative learning experience drawing on ideas from chemistry physics mathematics molecular biology and cell biology for its conceptual underpinnings

combines information from nutrition physiology and biochemistry to explain metabolism and the human body s response to physical activity includes essential topics new findings and future directions in research used for exercise biochemistry exercise physiology and sport nutrition courses for upper undergraduate and graduate students in exercise science as well as professionals

the maintenance of a stable acid base status within biological tissue is a fundamental homeostatic process in all organisms necessary to preserve the metabolic function of proteins and other macromolecules the study of acid base regulation has

advanced enormously over recent decades due to the development of increasingly accurate and sensitive techniques for measuring acid base variables this volume brings together contributions from leading comparative physiologists working on factors affecting the acid base status of the internal fluids of animals and plants the result is a broad ranging authoritative and accessible review of this area together with a critical look at techniques and tools

fish lives in environments with a wide variety of chemical characteristics fresh brackish and seawater acidic alkaline soft and hard waters from an osmoregulatory point of view fish have developed several mechanisms to live in these different environments fish osmoregulation has always attracted considerable attention and in the last years several studies have increased our knowledge of this physiological process in this book several specialists have analyzed and reviewed the new data published regarding fish osmoregulation the chapters present an integrative synthesis of the different aspects of this field focusing on osmoregulation in specific environments or situations function of osmoregulatory organs general mechanisms and endocrine control in addition interactions of osmoregulatory mechanisms with the immune system diet and metabolism were also reviewed new emerging techniques to study osmoregulation has also been analysed

the illustrations in this book are created by team educohack understanding animal functions is an engaging and comprehensive textbook that incorporates major paradigms of animal physiology this book is a harmonious blend of accurate information and clear explanations slightly biased towards mammals but also shining a light on other vertebrates and invertebrates like molluscs and arthropods we follow a time honored approach to bookmaking ensuring pedagogical relevance this textbook aligns with the academic curricula of various institutions and is targeted at graduate and undergraduate students and their instructors the content integrates animal physiology with disciplines such as ecology genetics and evolutionary and molecular biology we emphasize the importance of physiology in an animal s life discussing developments and processes like migration endogenous rhythms and adaptations to extreme conditions the book excludes parasitism and pathological aspects to focus on these core topics with its engaging narrative and illustrative visuals understanding animal functions enhances the learning experience making complex concepts accessible and

interesting

this handbook provides the only complete survey of comparative physiology for both vertebrates and invertebrates at an advanced level appropriate for research scientists graduate students postdoctoral fellows and faculty it starts with a chapter on the adaptation and evolution of physiological characters followed by up to date chapters covering each organ system in detail the editors then discuss the comparative physiological strategies organisms have developed for dealing with environmental challenges such as extreme temperatures extreme dryness seasonal and diurnal cycles and variations in salinity and osmolality of aqueous environments

the zebrafish in biomedical research biology husbandry diseases and research applications is a comprehensive work that fulfills a critical need for a thorough compilation of information on this species the text provides significant updates for working vivarium professionals maintaining zebrafish colonies veterinarians responsible for their care and well being zoologists and ethologists studying the species and investigators using the species to gain critical insights into human physiology and disease as the zebrafish has become an important model organism for the study of vertebrate development and disease organ function behavior toxicology cancer and drug discovery this book presents an important resource for future research presents a complete view of the zebrafish covering their biology husbandry diseases and research applications includes the work of world renowned authors provides the first authoritative and comprehensive treatment of zebrafish in biomedical research as part of the aclam series

provides interested readers with a current understanding of the biology of fishes as it relates to their utility in the laboratory

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