



Temperature Biology Of Animals

Elizabeth Parks Dahlhoff

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Temperature Biology Of Animals:

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.

Review of Temperature biology of animals by A.R. Cossins and K. Bowler. Chapman and Hall, 1987 A. Clarke, 1989 *Temperature Regulation in Humans and Other Mammals* Claus Jessen, 2012-12-06 How do mammals manage to maintain their body temperature within the same narrow range in environments as different as polar regions and hot deserts. This advanced text describes the morphological features and physiological mechanisms by which humans and other mammals maintain their body temperature within a narrow range despite large variations in climatic conditions and internal heat production. Its 19 chapters deal with the physics of heat exchange with the environment and the autonomic and behavioural mechanisms available to control the loss and production of heat. The neuronal basis of temperature regulation and current concepts of the central nervous interface between temperature signals generated in the body and control mechanisms are examined in detail. This book is of invaluable help for undergraduates, postgraduates, teachers, physicians and scientists.

Temperature and Animal Life Richard Neville Hardy, 1979 **Animal Life at Low Temperature** John Davenport, 2012-12-06 To humans cold has a distinctly positive quality. Frostbite, a nip in the air, biting cold, all express the concept of cold as an entity which attacks the body, numbing and damaging it in the process. Probably the richness of descriptive English in this area stems from the early experiences of a group of essentially tropical apes making their living on a cold and windswept island group half way between the Equator and the Arctic. During a scientific education we soon learn that there is no such thing as cold, only an absence of heat. Cold does not invade us, heat simply deserts. Later still we come to appreciate that temperature is a reflection of kinetic energy and that the quantity of kinetic energy in a system is determined by the speed of molecular movement. Despite this realization it is difficult to abandon the sensible prejudices of palaeolithic Homo sapiens shivering in his huts and caves. For example, appreciating that a polar bear is probably as comfortable when swimming from ice floe to ice floe as we are when swimming in the summer Mediterranean is

not easy understanding the thermal sensations of a cold blooded earthworm virtually impossible We must always be wary of an anthropocentric attitude when considering the effects of cold on other species **Animals and Temperature** Ian A. Johnston, Albert F. Bennett, 1996-10-10 Environmental temperature varies in time and space on timescales ranging from a few hours to long term climate change Organisms are therefore continually challenged to regulate and maintain functional capacities as their thermal environment changes This volume brings together many of the leading workers in thermal biology with backgrounds spanning the disciplines of molecular biology cell biology physiology zoology ecology and evolutionary biology to discuss the responses of a wide range of species to temperature change at all scales of organization ranging through the molecular cellular organismal population and ecosystem levels The volume provides an important and comprehensive contribution to the study of temperature adaptation which given the concern about global climate change will provide much to interest a wide range of biologists Temperature and Animal Life Richard N. Hardy, 1972

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 **Wildlife Review**, 1989 **Encyclopedia of Fish Physiology**, 2011-06-01 Fish form an extremely diverse group of vertebrates At a conservative estimate at least 40% of the world's vertebrates are fish On the one hand they are united by their adaptations to an aquatic environment and on the other they show a variety of adaptations to differing environmental conditions often to extremes of temperature salinity oxygen level and water chemistry They exhibit an array of behavioural and reproductive systems Interesting in their own right this suite of adaptive physiologies provides many model systems for both comparative vertebrate and human physiologists This four volume encyclopedia covers the diversity of fish physiology in over 300 articles and provides entry level information for students and summary overviews for researchers alike Broadly organised into four themes articles cover Functional Thematic and Phylogenetic Physiology and Fish Genomics Functional articles address the traditional aspects of fish physiology that are common to all areas of vertebrate physiology including Reproduction Respiration Neural Sensory Central Effector Endocrinology Renal Cardiovascular Acid base Balance Osmoregulation

Ionoregulation Digestion Metabolism Locomotion and so on Thematic Physiology articles are carefully selected and fewer in number They provide a level of integration that goes beyond the coverage in the Functional Physiology topics and include discussions of Toxicology Air breathing Migrations Temperature Endothermy etc Phylogenetic Physiology articles bring together information that bridges the physiology of certain groupings of fishes where the knowledge base has a sufficient depth and breadth and include articles on Ancient Fishes Tunas Sharks etc Genomics articles describe the underlying genetic component of fish physiology and high light their suitability and use as model organisms for the study of disease stress and physiological adaptations and reactions to external conditions Winner of a 2011 PROSE Award Honorable Mention for Multivolume Science Reference from the Association of American Publishers The definitive encyclopedia for the field of fish physiology Three volumes which comprehensively cover the entire field in over 300 entries written by experts Detailed coverage of basic functional physiology of fishes physiological themes in fish biology and comparative physiology amongst taxonomic Groups Describes the genomic bases of fish physiology and biology and the use of fish as model organisms in human physiological research Includes a glossary of terms

Nematodes and the Biological Control of Insect Pests RA Bedding,RJ Akhurst,HK Kaya,1993-01-01 Environmental and public health problems arising from the use of chemical insecticides have led to an increasing demand for alternatives for insect pest control Together with this widespread public concern resulting in governmental bans on many of the most effective insecticides and development of insecticide resistance has severely reduced the range of useful insecticides available Alternative control measures such as the biological control of pest insects with parasitoids and predators and microbial biocides have been in field use for several decades Although these alternatives are being continually improved most insect pests are nonetheless still controlled with chemical insecticides This book presents the latest work on the biological control of insects using nematodes it covers a range of topics that will help provide a better understanding of the potential problems involved in developing these nematodes as biological control agents Nematodes infect hundreds of different species from most orders of insects and affect their insect hosts in a variety of ways

Circadian Physiology Roberto Refinetti PhD.,2016-04-19 While the first edition of the critically acclaimed and highly popular Circadian Physiology offered a concise but rigorous review of basic and applied research on circadian rhythms this newest edition provides educators with the primary textbook they need to support a course on this cutting edge topic Maintaining the same accessible multidisciplinary approach

Animals and Temperature Albert F. Bennett, **Low Temperature Biology of Insects** David L. Denlinger,Richard E. Lee, Jr,2010-01-28 Low temperature is a major environmental constraint impacting the geographic distribution and seasonal activity patterns of insects Written for academic researchers in environmental physiology and entomology this book explores the physiological and molecular mechanisms that enable insects to cope with a cold environment and places these findings into an evolutionary and ecological context An introductory chapter provides a primer on insect cold tolerance and subsequent chapters in the first section discuss the organismal cellular and molecular

responses that allow insects to survive in the cold despite their at best limited ability to regulate their own body temperature. The second section highlighting the evolutionary and macrophysiological responses to low temperature is especially relevant for understanding the impact of global climate change on insect systems. A final section translates the knowledge gained from the rest of the book into practical applications including cryopreservation and the augmentation of pest management strategies.

Temperature and Animal Cells Society for Experimental Biology (Great Britain), 1987 *Environmental Protection Research Catalog: Indexes* Smithsonian Science Information Exchange, 1972 *Selected Water Resources Abstracts*, 1973 *The Laboratory Rabbit, Guinea Pig, Hamster, and Other Rodents* Mark A. Suckow, Karla A. Stevens, Ronald P. Wilson, 2011-12-14

The Laboratory Rabbit Guinea Pig Hamster and Other Rodents is a single volume comprehensive book sanctioned by the American College of Laboratory Animal Medicine ACLAM covering the rabbit guinea pig hamster gerbil and other rodents often used in research. This well illustrated reference won a 2012 PROSE Award for Best Single Volume Reference in Science from the Association of American Publishers. The book includes basic biology anatomy physiology behavior infectious and noninfectious diseases husbandry and breeding common experimental methods and use of the species as a research model. With many expert contributors this will be an extremely valuable publication for biomedical researchers laboratory animal veterinarians and other professionals engaged in laboratory animal science.

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Principles of Thermal Ecology: Temperature, Energy and Life Andrew Clarke, 2017-09-08

Temperature affects everything. It influences all aspects of the physical environment and governs any process that involves a flow of energy setting boundaries on what an organism can or cannot do. This novel textbook reveals the key principles behind the complex relationship between organisms and temperature namely the science of thermal ecology. It starts by providing a rigorous framework for understanding the flow of energy in and out of the organism before describing the influence of temperature on what organisms can do and how fast they can do it. With these fundamental principles covered the bulk of the book explores thermal ecology itself incorporating the important extra dimension of interactions with other organisms. An entire chapter is devoted to the crucially important subject of how organisms are responding to climate change. Indeed the threat of rapid climatic change on a global scale is a stark reminder of the challenges that remain for evolutionary thermal biologists and adds a sense of urgency to this book's mission.

Physiological Adaptations to Temperature in Hydrothermal Vent Invertebrates and Abalones Elizabeth Parks Dahlhoff, 1993

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