Effects of Temperature on Ectothermic Organisms

Ecological Implications and Mechanisms of Compensation

Edited by Wolfgang Wieser



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Raffaela Di Napoli

Effects of Temperature on Ectothermic Organisms Wolfgang Wieser, 2012-12-06 The study of thermoregulation in endotherms has contributed much to the emergence of the concept of control theory in biology By the same token the study of tempera ture adjustment in ectotherms is likely to have a far reaching influence on ideas on the regulation of metabolism in general The reason for this is that ectotherms in adapting to the vagaries of a thermally unstable environment deploy a range of subtle molecular and organismic strategies Thus the experimenter using temperature changes as a tool is well equipped to analyze some of these strategies This approach has enabled some important mechanisms of temperature induced adaptation to be elucidated the most striking of these are the effects on metabolism of changes in the conformation of enzymes and the transfer properties of membranes Furthermore there is a vague but persistent feeling among those working in this field that changes in the nervous system will ultimately prove to be the agency by which many of the molecular mechanisms of temperature adaptation are controlled Should this indeed be the case a new phase would soon begin in our understanding of the interactions between the systemic and the cellular levels of organization However it is not only questions about the causes of temperature adaptation that can provide answers of potential importance to the general biologist of equal significance are questions as to the meaning of temperature adaptation in a particular organism **Effects** of Temperature on Ectothermic Organisms Wolfgang Wieser, 1973 **Environmental Physiology of the Amphibians** Martin E. Feder, Warren W. Burggren, 1992-10-15 Through its emphasis on recent research its many summary tables and its bibliography of more than 4 000 entries this first modern synthetic treatment of comparative amphibian environmental physiology emerges as the definitive reference for the field Forty internationally respected experts review the primary data examine current research trends and identify productive avenues for future research Current Catalog National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 Effects of Thermal Pollution on Pelagic Larvae of Crustacea A. N. Sastry, 1980 Ecological Research Series ,1980 Mountain Biodiversity Christian Korner, Eva M. Spehn, 2024-11-01 This book is the result of the first global conference on mountain biodiversity and is a contribution to the International Year of Mountains 2002 The Global Mountain Biodiversity Assessment program is a Special Target Area Region project of DIVERSITAS UNESCO and UNEP Biological diversity is essential for the integrity of mountain ecosystems and this dependency is likely to increase as environmental climate and social conditions change Steep terrain and climate and severe land use pressure cause mountain ecosystems to rank among the world's most endangered landscapes. The 28 chapters in this book represent research on the biological riches in all major mountain ranges of the world and synthesize existing knowledge on mountain biodiversity from diversity of bacteria plants and animals to human diversity The book is divided into five sections an introduction providing an overview of the issues plant and animal diversity climate change and mountain biodiversity land use and conservation and a synthesis **Conservation of Endangered Species in Captivity** Edward F.

Gibbons Jr., Barbara S. Durrant, Jack Demarest, 1995-08-31 This multi disciplinary approach to conservation of endangered species in captivity is organized taxonomically and by scientific discipline The seven taxonomic groups included are invertebrates fish reptiles and amphibians birds marine mammals primates and other mammals Within each taxonomic group four scientific disciplines are explored conservation reproductive physiology behavior and captive design Conservation chapters summarize the status of the taxonomic group both in the wild and in captivity Reviewed in the reproductive physiology chapters are anatomy endocrinology and physiology for females and males of the taxonomic group In the section on behavior the functions of captive animal research the methods used and the problems encountered are discussed And in examining captive design the authors provide a general historical outline of the philosophies trends and scientific issues for the targeted taxonomic group

Effects of Temperature on Ectothermic Organisms Wolfgang Wieser,1973

EPA-600/3 ,1980-07 Effects of Climate Change on Insects Daniel González-Tokman, Wesley Dáttilo, 2024-02-16 Anthropogenic climate change is the defining environmental challenge of this century posing an existential threat not only to humans but also to the vast array of plants and animals that inhabit our planet Among these insects reign as the largest and most diverse group of organisms playing critical roles in nutrient cycling pollination seed dispersal and population control of other species Additionally they serve as a vital food source for various taxa and act as vectors for numerous human diseases This comprehensive but accessible text delves into the intricate world of these remarkable creatures with a focus extending beyond economically or medically significant species to encompass non model organisms In so doing it uncovers valuable insights into the implications posed by climate change on global insect populations. The book reviews the conceptual approaches and most significant advances in our current understanding of insect physiology genetics ecology evolution and conservation within the ongoing and rapidly developing context of global anthropogenic climate change In addition to presenting historical information about climate change effects on insects it synthesizes the available knowledge concerning the impact of climate change on insect populations communities and ecosystem processes Furthermore it identifies the most relevant topics and promising methodological approaches for further research in this crucial field Effects of Climate Change on Insects has been written to engage a diverse audience catering to the curiosity of both students and researchers seeking knowledge on the critical subject of insect responses to climate change As the field continues to grow in importance it will be an indispensable resource for anyone seeking to comprehend the intricate interplay between these fascinating creatures and our ever changing world <u>Dormancy and Developmental Arrest Mary E. Clutter</u>, 2013-09-17 Dormancy and Developmental Arrest Experimental Analysis in Plants and Animals discusses the experimentation on states of suspended animation of living organisms The book presents the range and complexity of interconnected processes involving structural physiological and molecular alterations in the organism The text describes the physiological responses of animals and plants to environmental signals It discusses the activities of nucleic acid and protein synthesis prior to dormancy state The text also describes plant

embryo development and the regulation of body temperature in dormant states. The book will provide valuable insights for biologists zoologists botanists students and researchers in the field of biology.

Conference Publications Guide, 1974*

Marine Biology of Polar Regions and Effects of Stress on Marine Organisms John Stuart Gray, Marit E.

Christiansen, 1985 Contains forty three papers presented at the Symposium Schmidt-Koenig, 1975 Acrida, 1975 Nature and Resources, 1974 Federation Proceedings Federation of American Societies for Experimental Biology, 1974 The Role of Calcium in the Responses of Plants to Cold Peter Vladimir Minorsky, 1988 Scientific American, 1845

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