

Thermal Adaptation

A Theoretical and Empirical Synthesis



Michael J. Angilletta Jr.

WINNER OF THE BRITISH ECOLOGICAL SOCIETY BOOK OF THE YEAR 2009

Thermal Adaptation A Theoretical And Empirical Synthesis

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Thermal Adaptation Michael James Angilletta, 2009-01-29 Temperature impacts the behaviour physiology and ecology of all organisms more than any other abiotic variable In this book the author draws on theory from the more general discipline of evolutionary ecology to foster a fresh approach toward a theory of thermal adaptation Thermal Adaptation Oxidative Stress and Hormesis in Evolutionary Ecology and Physiology David Michael J. Angilletta, 2009 Costantini, 2014-03-27 This book discusses oxidative stress and hormesis from the perspective of an evolutionary ecologist or physiologist In the first of ten chapters general historical information definitions and background of research on oxidative stress physiology hormesis and life history are provided Chapters 2 10 highlight the different solutions that organisms have evolved to cope with the oxidative threats posed by their environments and lifestyles The author illustrates how oxidative stress and hormesis have shaped diversity in organism life histories behavioral profiles morphological phenotypes and aging mechanisms. The book offers fascinating insights into how organisms work and how they evolve to sustain their physiological functions under a vast array of environmental conditions Heating with Wolves, Cooling with Cacti Negin Imani, Brenda Vale, 2021-12-30 This book describes the detailed process behind the development of a comprehensive thermo bio architectural framework the ThBA This framework systematically connects the thermal performance requirements of a building to relevant solutions found in the natural world This is the first time that architecture has been connected to biology in this manner The book provides an in depth understanding of thermoregulatory strategies in animals and plants and links these to equivalent solutions in architectural design The inclusion of this fundamental knowledge along with the systematic process of accessing it should open up new avenues for the generation of energy efficient and sustainable buildings

Andean Herpetofauna J. Nicolás Urbina-Cardona, Carlos A. Navas, Alessandro Catenazzi, Carla Piantoni, 2025-11-21 This book provides a multidisciplinary perspective on the Andean herpetofauna covering topics ranging from natural history and thermal ecology to biogeography and conservation Extending over 8 900 kilometres across seven countries the Andes represent one of the world's most exceptional biodiversity hotspots for amphibians and reptiles including many endemic forms This comprehensive volume presents the first integrative synthesis of Andean herpetofauna organized into 18 chapters covering different disciplines The first section focuses on diversity and distribution patterns across varied landscapes from humid Colombian p ramos to arid central Andean punas The second section explores evolutionary histories and life strategies including viviparity extended larval development and physiological adaptations enabling species survival in harsh montane conditions The third section examines ecological and physiological adaptation including cold tolerance mechanisms thermal biology and freeze resistance in high altitude environments The fourth section addresses conservation challenges and emerging threats including infectious diseases climate change impacts and critical knowledge gaps hindering effective conservation planning It will be an invaluable resource for researchers students and conservation scientists interested in the

biology and conservation of amphibians and reptiles inhabiting these remarkable montane ecosystems Climate Change and Microbial Diversity Suhaib A. Bandh, Javid A. Parray, Nowsheen Shameem, 2022-08-18 The ongoing global climate change triggered by greenhouse gas growth has had a significant effect on the microbial dynamics of plants and soils This volume explores the various microbial responses of plants and soils caused directly or indirectly by climate change resulting from rising greenhouse gases and other factors. The book considers the rapidly changing environment and the important role of microbiomes in restoring soil and plant health and in creating sustainable approaches It discusses the adaptation and mitigation of plants and soils specifically addressing such topics as biogeochemical processes antimicrobial resistance the dynamics of bacteria and fungus in extreme environments bacterial siderophores for sustainability and more The volume also looks at edaphic and regeneration performance of tree species in the temperate forests **Urban Evolutionary Biology** Marta Szulkin, Jason Munshi-South, Anne Charmantier, 2020-05-05 Urban Evolutionary Biology fills an important knowledge gap on wild organismal evolution in the urban environment whilst offering a novel exploration of the fast growing new field of evolutionary research The growing rate of urbanization and the maturation of urban study systems worldwide means interest in the urban environment as an agent of evolutionary change is rapidly increasing We are presently witnessing the emergence of a new field of research in evolutionary biology Despite its rapid global expansion the urban environment has until now been a largely neglected study site among evolutionary biologists With its conspicuously altered ecological dynamics it stands in stark contrast to the natural environments traditionally used as cornerstones for evolutionary ecology research Urbanization can offer a great range of new opportunities to test for rapid evolutionary processes as a consequence of human activity both because of replicate contexts for hypothesis testing but also because cities are characterized by an array of easily quantifiable environmental axes of variation and thus testable agents of selection Thanks to a wide possible breadth of inference in terms of taxa that may be studied and a great variety of analytical methods urban evolution has the potential to stand at a fascinating multi disciplinary crossroad enriching the field of evolutionary biology with emergent yet incredibly potent new research themes where the urban habitat is key Urban Evolutionary Biology is an advanced textbook suitable for graduate level students as well as professional researchers studying the genetics evolutionary biology and ecology of urban environments It is also highly relevant to urban ecologists and urban wildlife practitioners Encyclopedia of Evolutionary Biology, 2016-04-14 Encyclopedia of Evolutionary Biology Four Volume Set is the definitive go to reference in the field of evolutionary biology It provides a fully comprehensive review of the field in an easy to search structure Under the collective leadership of fifteen distinguished section editors it is comprised of articles written by leading experts in the field providing a full review of the current status of each topic The articles are up to date and fully illustrated with in text references that allow readers to easily access primary literature While all entries are authoritative and valuable to those with advanced understanding of evolutionary biology they are also intended to be accessible to both advanced undergraduate and

graduate students Broad topics include the history of evolutionary biology population genetics quantitative genetics speciation life history evolution evolution of sex and mating systems evolutionary biogeography evolutionary developmental biology molecular and genome evolution coevolution phylogenetic methods microbial evolution diversification of plants and fungi diversification of animals and applied evolution Presents fully comprehensive content allowing easy access to fundamental information and links to primary research Contains concise articles by leading experts in the field that ensures current coverage of each topic Provides ancillary learning tools like tables illustrations and multimedia features to assist with the comprehension process Marine & Freshwater Research ,2011 **Biology of Oysters** Brian Leicester Bayne, 2017-05-12 Biology of Oysters offers scientific insights into the structure and function of oysters Written by an expert in the field of shellfish research this book presents more than 50 years of empirical research literature It provides an understanding of the edible oysters in order to equip students and researchers with the background needed to undertake further investigations on this model marine invertebrate Presents empirical research findings in context with the relevant theory and its expression in computer models Includes information on studies of other bivalve species such as mussels and clams Offers a description of the whole organism to provide a frame of reference for further research Includes research developments in the phylogeny physiology and ecology of oysters **Transactions of the Kansas Academy of Science** The Importance of Water Temperature and Algal Assemblage for Frog Conservation in Kansas Academy of Science, 2017 Northern California Rivers with Hydroelectric Projects Sarah Kupferberg, Alessandro Catenazzi, Mary Power, University of California, Berkeley, 2011 Canadian Journal of Fisheries and Aquatic Sciences ,2014 Proceedinas .2009 Canadian Journal of Zoology ,2014-05 The British National Bibliography Arthur James Wells, 2009 Dissertation Abstracts International ,1986 Molecular Marine Microbiology Douglas H. Bartlett, 2000-02 Eminent scientists contribute 13 highly topical reviews on current aspects this exciting area originally presented as a JMMB symposium August 1999 This volume provides a valuable insight into many of the recent developments in this broad field and their biomedical or biotechnological revelance Topics include quorum and anti quorum sensing selected symbioses DNA shuffling in the environment the evolution and development of novel motility mechanisms hydrocarbon degradation the interactions of microbes with metals and adaptations to extremes of pressure and temperature An invaluable reference work The American Naturalist ,2006

Climate Change Impacts in the Canadian Arctic Hugh M. French, 1986

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