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Temperature Adaptation of Biological Membranes

Editor

A. R. Cossins



Temperature Adaptation Of Biological Membranes

David L. Denlinger, Richard E. Lee, Jr



Temperature Adaptation Of Biological Membranes:

Temperature Adaptation of Biological Membranes Andrew R. Cossins, Society for Experimental Biology (Great Britain), 1994 This volume sets out to summarize current knowledge of physical structural adaptations of membranes to fluctuations of temperature Temperature is one of the most potent perturbing influences on membranes and so it provides a useful model for analyzing how they respond to other stressful conditions

Biotechnological Applications of Cold-Adapted Organisms Rosa Margesin, Franz Schinner, 2012-12-06 Cold adapted microorganisms plants and animals are widely distributed in nature since more than 80% of the biosphere show temperatures below 0°C These organisms play a major role in the processes of nutrient turnover and primary biomass production in cold ecosystems and have adapted to their environment in such a way that metabolic processes reproduction and survival strategies are optimal Cold adapted organisms have received little attention so far Only within the past few years it has been recognized that these organisms and their products provide a large potential for biotechnological applications Biochemical reactions can be performed at low temperatures and terminated by mild heat treatment without the risk of contaminations by mesophiles or thermophiles Thus the practical utilization of cold adapted organisms would constitute a considerable progress towards the saving of energy In this book prominent authors from industries and universities present new concepts and developments Their articles summarize the actual and potential applications of cold adapted organisms and viruses in several fields of biotechnology such as enzymes health food agriculture and environment Further chapters cover the application of cold adapted microorganisms for bio mining and as genetic tools We are most grateful to the authors for their excellent contributions to Brigitte Marschall and Alexander Koren for skilful preparation of the layout and to the publishers especially to Dr Dieter Czeschlik for their cooperation

Essential Fatty Acids and Eicosanoids Andrew Sinclair, Robert Gibson, 1992 Papers from the March 1992 conference explore the importance of EFA and eicosanoids on living organisms Organization is around five interrelated themes examination of the biological function of docosahexaenoic acid at the fundamental level of molecular and cellular research biosynthesis of PUFA in mammals types of biological markers that can provide information about the adequacy of EFA intake role that EFA and eicosanoids play in the development of disease states and in the nutrition of the fetus and newly born infants especially those born prematurely Member price 100 Annotation copyright by Book News Inc Portland OR

An Introduction to Biological Membranes William Stillwell, 2013-04-20 An Introduction to Biological Membranes From Bilayers to Rafts covers many aspects of membrane structure function that bridges membrane biophysics and cell biology Offering cohesive foundational information this publication is valuable for advanced undergraduate students graduate students and membranologists who seek a broad overview of membrane science Brings together different facets of membrane research in a universally understandable manner Emphasis on the historical development of the field Topics include membrane sugars membrane models membrane isolation methods and membrane transport

Thermobiology J.S.

Willis, 1997-04-15 Notwithstanding widespread studies and even several biological journals devoted to temperature it is difficult to perceive a field of thermobiology as such Interest in the effects of temperature of biological systems is fragmented into specific thermal ranges and often connected with particular applications subzero cryobiology and preservation of cells and tissues or survival of poikilotherms para zero cryobiology and preservation of whole organs and survival of whole animals intermediate ranges and physiological adaption and regulation high temperatures and use of heat for killing cancer cells very high temperatures and limits of biological structure Yet it has not always been so and there are good reasons why it need not remain so General and comparative physiologists such as W J Crozier H Precht J Belehradek F Johnson C L Prosser and others have sought throughout this century to lay foundations for unified approaches to temperature in biological systems Recent findings also serve to suggest principles and processes that span the range of temperatures of biological interest Microviscosity of membranes is an issue originally of interest to low temperature biologists but with relevance to limiting high temperatures conversely for protein structure Certain heat shock proteins now appear to be responses to generalized stress including low temperature Inevitably the chapters of this book reflect the zonal character of thermobiology two chapters by Storey and Raymond deal with protection against subfreezing temperatures three Hazel membrane structure Dietrich microtubular structure and Kruuv cell growth deal with the effects of and modulation to cool to moderate superfreezing temperatures one Willis with modulation of membrane ion transport to moderate to high temperatures and two Li heat shock proteins and Lepock proteins in general with stressfully high temperatures Explicit in each of these chapters however are principles and issues that transcend the parochialism of the temperature range under consideration

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

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.

Advances in Comparative and Environmental Physiology Lawrence C.H. Wang, 2012-12-06

When survival is challenged by the cold, animals react by employing both behavioral and physiological solutions. Depending on the magnitude of the cold stress and the nature of the adjustment, simple avoidance or sophisticated capacity or resistance compensations may be used. Thus, migration, shelter seeking, metabolic and insulative compensation, torpor and freezing avoidance and tolerance are successful tactics used by diverse groups of animals. To understand and appreciate the benefits of these tactics, it is necessary to examine not only the well-being of the whole animal but also their basic underlying mechanisms. In addition, it is also of fundamental importance to grasp how seasonal cold affects the survivorship and reproductive success of populations when confronted by a general reduction in primary productivity and an elevated energy cost for maintenance, e.g. in endotherms. In this regard, a synthetic overview which integrates aspects of cell biology, biochemistry, physiology, neurobiology, behavior and population biology should be a fruitful approach in providing a holistic understanding on how animals adapt to cold. The present volume is an attempt to achieve such an overview; its objective is to provide a depth and breadth of coverage that is essential to a full appreciation of animal adaptation to cold. It is the hope of the contributing authors that this book will serve as an effective reference text for all senior undergraduate and graduate students as well as research scientists with an interest in cold physiology.

Molecular Aspects of the Stress Response: Chaperones, Membranes and Networks Peter Csermely, László Vigh, 2007-08-09

We are extremely happy to present the reader this book containing a summary of a well-known research field: the phenomenon of cellular stress defense from two new angles: networks and membranes. The volume starts with an introduction to the concept of molecular chaperones in their original sense. R. John Ellis, the founder of the chaperone concept, describes chaperones as mediators of correct assembly and/or misassembly of other macromolecular complexes. This sets the tone of the book where later chapters give detailed examples of the richness of chaperone action by hundreds of other proteins and membrane structures. The reader will learn the role of chaperone classes such as Hsp27 or Hsp90, the action of highly organized chaperone networks in various cellular compartments such as the ER or mitochondrial ER networks as well as the molecular details of the signaling mechanisms leading to chaperone induction during stress. Various special stress defense mechanisms against oxidative stress or dryness will also be covered. Membranes comprise a surprising mixture of

stability and dynamics in the cell Their role in the regulation of the stress response has been accepted only slowly in the field Two chapters summarize this important aspect of the stress response showing the importance of membrane hyperstructures lipid species composition protein membrane interactions and cold adaptation *Temperature Adaptation in a Changing Climate* Kenneth B. Storey, Karen K. Tanino, 2012 Cold adaptation is a much neglected field in the minds of climate change researchers and policy makers However increasing fluctuations in temperature means that the risk of cold stress will pose an increasing threat to both wild and cultivated plants and animals with frost injury expected to cause devastating damage to crops on an increasingly large scale Conversely species already adapted to cold seasonality are declining in numbers and threatening both wildlife and human food sources Thus improving shared knowledge of the biological mechanisms of cold adaptation in plants and animals will help prevent major losses of crops and genetic resources in the future This book is the first to focus on the mechanistic similarities between species in their responses to cold in a multi organism approach that addresses the challenges and impacts of climate change on cold adaptation in micro organisms including pathogens invertebrates economically and scientifically important plants and vertebrates in both terrestrial and marine environments The book concludes with a focus on the interactions between organisms exploring common mechanisms in cold adaptation and dormancy

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