

# 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

**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 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 **Animals and Environmental**

**Fitness: Physiological and Biochemical Aspects of Adaptation and Ecology** R. Gilles,2013-10-02 Animals and Environmental Fitness Volume 1 Invited Lectures is a collection of papers that tackles ecological concerns The materials of the book are organized according to the main issue of their contents The text first tackles the chemical factors of the environment such as water and oxygen availability hormones and pollutants The other half of the book encompasses the physical factors of the environment that include light pressure and temperature The text will be of great use to scientists who study the interaction between flora fauna and the total environment **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 microorganisms 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.

Structure and Properties of Cell Membrane Structure and Properties of Cell Membranes Gheorghe Benga, 2018-01-18 This book provides in-depth presentations in membrane biology by specialists of international repute. The volumes examine world literature on recent advances in understanding the molecular structure and properties of membranes, the role they play in cellular physiology and cell-cell interactions, and the alterations leading to abnormal cells. Illustrations, tables, and useful appendices complement the text. Those professionals actively working in the field of cell membrane investigations as well as biologists, biochemists, biophysicists, physicians, and academicians will find this work beneficial.

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.

**Biochemical Adaptation** Peter William Hochachka, George N. Somero, 2002 Suitable for graduates and undergraduates in environmental biology, comparative physiology, and marine biology, this text lays out the principles of mechanistic comparative physiology in an ecological and evolutionary context. This text lays out the principles of mechanistic comparative physiology in an ecological and evolutionary context. The subject of evolutionary physiology has been advancing considerably, and this book will bring

readers up to date on a number of new techniques ideas and data Topics include NMR spectroscopy and molecular biology evolution and adaptation phylogenetically based analytical techniques and more

**The Physiology of Fishes** Suzanne Currie,David H. Evans,2020-09-07 The fifth edition of The Physiology of Fishes represents a compendium of knowledge across fish physiology collecting up to date research into an easy to access single textbook Written by the leaders in the field it provides a comprehensive accessible review of the core topics integrating physiology with environmental science ecology evolution and molecular cell biology New chapters address Epigenetics Biomechanics and Locomotion and Behaviour and Learning Each chapter contains an extensive bibliography providing readers with the best sources from the primary literature Almost three decades after the publication of the first edition this book remains the only published single volume work on fish physiology The fifth edition provides an important reference for new students of fish biology marine and freshwater biologists ichthyologists fisheries scientists and comparative physiologists

**Physiological Diversity** John Spicer,Kevin Gaston,2009-04-01 Ecologists have always believed at least to a certain extent that physiological mechanisms serve to underpin ecological patterns However their importance has traditionally been at best underestimated and at worst ignored with physiological variation being dismissed as either an irrelevance or as random noise error Spicer and Gaston make a convincing argument that the precise physiology does matter In contrast to previous works which have attempted to integrate ecology and physiology Physiological Diversity adopts a completely different and more controversial approach in tackling the physiology first before moving on to consider the implications for ecology This is timely given the recent and considerable interest in the mechanisms underlying ecological patterns Indeed many of these mechanisms are physiological This textbook provides a contemporary summary of physiological diversity as it occurs at different hierarchical levels individual population species etc and the implications of such diversity for ecology and by implication evolution It reviews what is known of physiological diversity and in doing so exposes the reader to all the key works in the field It also portrays many of these studies in a completely new light thereby serving as an agenda for and impetus to the future study of physiological variation Physiological Diversity will be of relevance to senior undergraduates postgraduates and professional researchers in the fields of ecology ecological physiology ecotoxicology environmental biology and conservation The book spans both terrestrial and marine systems

**Advances in Marine Biology** Jean-Francois Hamel,2022-10-06 Advances in Marine Biology Volume 92 highlights new advances in the field with this new volume presenting interesting chapters on topics including A Review of Coral Reef Rehabilitation Efforts in the Coral Triangle Each chapter in this series is written by an international board of authors Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Advances in Marine Biology serial Updated release includes the latest information on the Global Knowledge on the Commercial Sea Cucumber *Holothuria Scabra*

*Dimorphism in Human Pathogenic and Apathogenic Yeasts* Joachim F. Ernst,Axel Schmidt,2000-01-01 The book is an interesting mixture of both clinical and

fundamental mycology is illustrated throughout with excellent black and white photographs clear diagrams and useful tables and each chapter contains an extensive list of relevant publications It is an excellent review of many aspects of dimorphisms in yeasts

**The Physiology of Fishes** David H. Evans, James B. Claiborne, 2005-12-15 New scientific approaches have dramatically evolved in the decade since *The Physiology of Fishes* was first published With the genomic revolution and a heightened understanding of molecular biology we now have the tools and the knowledge to apply a fresh approach to the study of fishes Consequently *The Physiology of Fishes* Third Edition is not merely another updating but rather an entire reworking of the original To satisfy that need for a fresh approach the editors have employed a new set of expert contributors steeped in the very latest research their contemporary perspective pervades the entire text In addition to new chapters on gas transport temperature physiology and stress as well as one dedicated to functional genomics readers will discover that many of these new contributors approach their material with a contemporary molecular perspective While much of the material is new the editors have completely adhered to the original's style in creating a text that continues to be highly readable and perpetually insightful in bridging the gap between pure and applied science *The Physiology of Fishes* Third Edition completely updated with a molecular perspective continues to be regarded as the best single volume general reference on all major areas of research in fish physiology *The Physiology of Fishes* Third Edition provides background information for advanced students as well as material of interest to marine and fisheries biologists ichthyologists and comparative physiologists looking to differentiate between the physiological strategies unique to fishes and those shared with other organisms

**Fish Physiology: Hypoxia** Jeffrey G. Richards, Anthony Farrell, Colin Brauner, 2009-03-10 Periods of environmental hypoxia Low Oxygen Availability are extremely common in aquatic systems due to both natural causes such as diurnal oscillations in algal respiration seasonal flooding stratification under ice cover in lakes and isolation of densely vegetated water bodies as well as more recent anthropogenic causes e.g. eutrophication In view of this it is perhaps not surprising that among all vertebrates fish boast the largest number of hypoxia tolerant species hypoxia has clearly played an important role in shaping the evolution of many unique adaptive strategies These unique adaptive strategies either allow fish to maintain function at low oxygen levels thus extending hypoxia tolerance limits or permit them to defend against the metabolic consequences of oxygen levels that fall below a threshold where metabolic functions cannot be maintained The aim of this volume is two fold First this book will review and synthesize the adaptive behavioural morphological physiological biochemical and molecular strategies used by fish to survive hypoxia exposure and place them within an environmental and ecological context Second through the development of a synthesis chapter this book will serve as the cornerstone for directing future research into the effects of hypoxia exposures on fish physiology and biochemistry The only single volume available to provide an in depth discussion of the adaptations and responses of fish to environmental hypoxia Reviews and synthesizes the adaptive behavioural morphological physiological biochemical and molecular strategies used by fish to



survive hypoxia exposure Includes discussion of the evolutionary and ecological consequences of hypoxia exposure in fish  
*Cumulated Index Medicus* ,1979

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