

Advances in Pharmacological Sciences

# Temperature Regulation

Recent Physiological and  
Pharmacological Advances

Edited by  
A.S. Milton

Birkhäuser

# Temperature Regulation Recent Physiological Pharmacological Advances

**Australian Physiological and  
Pharmacological Society**



## **Temperature Regulation Recent Physiological Pharmacological Advances:**

**Temperature Regulation** A.S. Milton, 2012-12-06 Many advances have been made in the field of thermoregulation in the past few years. These include our understanding of Fever which is now considered not simply a rise in deep body temperature following infection but just one aspect though perhaps the most easily measured of the Acute Phase of the Immune Response. Classification and identification of the Cytokines and the availability of recombinant material has greatly aided this research. Similarly our understanding of the Hypothalamo Pituitary Adrenal Axis has altered our way of thinking about temperature regulation. Of importance are the problems associated with adverse climatic conditions and survival and the problems encountered by the neonate and the hibernator. At the biochemical level our knowledge of the control of heat production and the role of brown adipose tissue is rapidly advancing. All these issues and many others were discussed at a Symposium Thermal Physiology 1993 held in Aberdeen Scotland in August 1993 under the auspices of the Thermal Physiology Commission of the International Union of Physiological Sciences. Six main aspects of the subject of temperature regulation are included in this book namely Fever including the Acute Phase of the Immune Response and Thermoregulatory Peptides, Neurophysiology of Thermoregulation, Neonatal Thermoregulation, Mechanisms of Heat Production, Ecological and Behavioural Thermoregulation and Emerging Themes in Thermoregulation.

**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.

**Thermal Balance in Health and Disease** Eugen Zeisberger, Eduard Schönbaum, Peter Lomax, 2012-12-06 The German land of Hesse Bundesland Hessen is well known for its excellent wines, Rheinhessen for its financial centre and for its airport Frankfurt/Main. It is unjustifiably far less well known for its importance to thermoregulation. Within the small area of Bad Nauheim, Giessen and Marburg, in alphabetical order, a greater concentration of students of thermoregulation has been trained or worked or is working than probably in any other single area of Europe, if not the world. It is thus most appropriate to hold the Ninth International Symposium on the Pharmacology of Thermoregulation in Giessen from August 7 to 12, 1994. The community of students of thermoregulation was extremely grateful that Professor Kurt Bruck and the Justus Liebig University of Giessen had extended this invitation. The same community was even more saddened that Kurt Bruck died on April 27, 1992 and thus could not participate in this event.

that had been planned to honour his achievements As a small token of friendship and affection the many friends of Kurt Bruck from all over the world who will participate in this event dedicate this symposium to the memory of Kurt Bruck Another staunch friend researcher of temperature regulation and supporter of this series of symposia died in October 1993 Professor Wilhelm Siegmund Feldberg We feel fortunate to be able to start this volume with two brief infonnal and personal accounts of professors Bruck and Feldberg *Thermal Physiology* Clark M. Blatteis, Nigel A. S. Taylor, Duncan Mitchell, 2022-09-22 This edited volume records the critical historical developments in thermal physiology and makes them accessible to new and senior thermal biologists and scientists in related fields Readers will discover how the discipline developed all over the world Contributions from 14 different countries recollect all prominent discoveries starting in the 18th century Like other volumes of the Perspectives in Physiology series this book reveals the people behind these discoveries The authors also set the scenes in which the research was conducted in their countries From geopolitical frameworks to new technologies and extraordinary personalities this volume shows that scientific progress is influenced by many often unforeseeable factors The history of thermal physiology not only is a story about individual outstanding scientists but a testament for open collaboration and international comradery *Archives Internationales de Pharmacodynamie Et de Therapie* ,1994 Summaries at end of articles *Fever and Antipyresis* Keith E. Cooper, Keith Edward Cooper, 1995-05-18 This book provides a detailed overview of the function of the nervous system in fever and its role in antipyresis The volume opens with an introductory account of fever its physiology and adaptive role and explains the mechanisms of thermoregulation Sufficient information about bacterial pyrogens endogenous pyrogenic cytokines body temperature regulation and survival value of fever and its ubiquity is given to enable readers to follow the CNS involvement The book should enable graduate students and researchers in neuroscience and other disciplines to understand the impact of their studies in the overall processes of fever *Israel Journal of Zoology* ,1994 [Handbook of Physiology](#) [Anonymus AC02259024],1996 *Proceedings of the Nutrition Society* ,1995 [Handbook of Physiology](#) Melvin J. Fregly, Clark M. Blatteis, 1996 **Thermotherapy for Neoplasia, Inflammation, and Pain** M. Kosaka, T. Sugahara, K.L. Schmidt, E. Simon, 2013-04-17 This book provides a comprehensive overview of the multitude of different forms of thermotherapy in connection with aspects of thermal physiology and cell biology The aim is to elucidate the scientific background of therapeutic actions and to promote effective new applications at the beginning of the 21st century Significant to these purposes is cooperation between experts in the fields of thermal biology hyper thermic oncology rheumatology and balneology as represented by the editors Emphasis has been placed on a balanced choice of contributions in the hope that this will enable the reader to draw helpful connections between the principles and practice of thermotherapy It is apparent that a wealth of published data exists concerning thermotherapy on the one hand and thermal physiology on the other However in the former field empirical aspects of therapeutic usefulness prevail while in the latter aspects of basic science

are in the foreground Accordingly the sources where published data may be found are quite different and as a consequence many findings of potential mutual interest published in medical journals have gone unnoticed by readers of physiological journals and vice versa It is hoped that this book will bridge the gap and encourage researchers efforts to integrate the available knowledge to attain optimal coordination of clinical and theoretical aspects     *Annual Report* Rowett Research Institute,1994     **Environmental Physiology** Melvin J. Fregly,Clark M. Blatteis,1996     The Pharmacology of Thermoregulation E. Schönbaum,Peter Lomax,1973     **Tabellenboek wetenschappelijk onderwijs en onderzoek** Rijksuniversiteit Groningen,1993     **National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1983     *Cannabinoid Receptors* Roger G. Pertwee,1995 Thus cannabinoid research must now extend well beyond the realms of pharmacology and molecular biology into those of physiology and pathophysiology     *Proceedings of the Australian Physiological and Pharmacological Society* Australian Physiological and Pharmacological Society,1976     **Canadian Journal of Physiology and Pharmacology** ,1987     *The Ontogeny of Brown Adipose Tissue in Microtus Ochrogaster in Various Thermal and Social Environments* Bradley Alan White,1996

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