

Role of Melatonin and Pineal Peptides in Neuroimmunomodulation

Edited by Franco Fraschini and Russel J. Reiter

NATO ASI Series

Role Of Melatonin And Pineal Peptides In Neuroimmunomodulation

Samuel McDonald McCann

Role Of Melatonin And Pineal Peptides In Neuroimmunomodulation:

Role of Melatonin and Pineal Peptides in Neuroimmunomodulation Franco Fraschini, Russel J. Reiter, 2012-12-06 Research related to the pineal gland has advanced rapidly in the last three decades since the discovery of its most important hormone melatonin This indoleamine has been shown to have a large variety of effects in the organism the bulk of these actions were initially thought to relate the pineal gland to the reproductive and endocrine systems It is now apparent however that the physiologic interactions of the pineal and its hormones far transcend its control of endocrine function One field of pineal research that has developed rapidly within the last 5 years has been the demonstration of its relationship to the immune system Since the pineal gland is part of the central nervous system these observations generally fall in the category of neuroimmunology an area that in its own right has received a great deal of attention in the last decade Thus a NATO Advanced Study Course entitled Role of Melatonin and Pineal Pep tides in Neuroimmunomodulation was convened in Erice Sicily on June 3 9 1990 This book is a result of the scientific presentations given at the workshop The contributions to the book include mini review articles which summarized the presentations of the invited speakers as well as a selected number of brief communications where the subject matter was in line with the theme of the Advanced Study Course Role of melatonin and pineal peptides in neuroimmunomodulation: [proceedings of a NATO Advanced Research Workshop on the Role of Melatonin and Pineal Peptides in Neuroimmunomodulation, held June 3 - 9, 1990, in Erice, Sicily, Italy Franco Therapeutic Potential of Melatonin Georges J. M. Maestroni, Ario Conti, Russel J. Reiter, 1997-01-01 Over Fraschini, 1991 the past decade the potential of the pineal hormone melatonin as a therapeutic agent in a variety of diseases has been recognized This book is the first to review the effect of melatonin in sleep disorders its possible use as an immunoregulatory agent and clinical results obtained in cancer immunotherapy Several papers are devoted to the pharmacological and molecular characterization of melatonin receptors in a variety of cell types Other contributions further investigate the immunoenhancing effect of melatonin such as in viral encephalitis and bacterial infections and consider possible therapeutic indications Melatonin is also reported to exert important hematopoietic effects by stimulating the production of novel T helper cell opioid cytokines Other basic studies introduce new perspectives describing melatonin as a potent free radical scavenger This book should be read by clinicians working in the fields of sleep disorders oncology and infectious diseases as well as by scientists active in the field of neuroimmunomodulation It will also be very useful to all those interested in melatonin as a therapeutic agent Melatonin Hing-Sing Yu, Russel J. Reiter, 2020-10-28 Melatonin Biosynthesis Physiological Effects and Clinical Applications provides a thorough review of recent advances in major areas of melatonin research The book is arranged in a logical sequence beginning with the history of melatonin and then proceeding to cover its biochemistry and secretion physiological effects and clinical significance New findings and current concepts are emphasized and a significant amount of previously unpublished data are included The book will be an important reference for

neurobiologists cell biologists ophthalmologists endocrinologists neuroendocrinologists reproductive biologists psychiatrists and other researchers and clinicians interested in melatonin

The Melatonin Miracle Walter Pierpaoli, 1996-03 In this book two of the world's leading medical researchers explains how melatonin works It already prevents jet lag and research suggests it controls the aging process fights disease boosts the immune system lowers cholesterol relieves stress

Melatonin in Psychiatric and Neoplastic Disorders Mohammad Shafii, 1998 Melatonin in Psychiatric and Neoplastic Disorders provides psychiatrists oncologists endocrinologists pediatricians and other health professionals with a thorough examination of the most current research on the role of melatonin in psychiatric and neoplastic disorders Universal Photoperiodic Signal with Diverse Actions P. L. Tang, S. F. Pang, R. J. Reiter, 1996-12-05 This timely publication describes several newly identified functions of melatonin and discusses the findings in terms of melatonin s actions on the neuroendocrine axis the immune system the gastrointestinal tract and the pulmonary and cardiovascular systems in organisms ranging from unicellular animals to humans Containing the most recent experimental data on the receptors which mediate the effects of the pineal hormone melatonin this volume shows that melatonin receptors are more widely distributed than originally thought and exhibit wide species variations in terms of their distribution and density In addition multiple subtypes of melatonin receptors are identified. These findings indicate that melatonin is a ubiquitously acting molecule which mediates a variety of physiologically important actions Tryptophan, Serotonin, and Melatonin Gerald Huether, Walter Kochen, Thomas J. Simat, Hans Steinhart, 2012-12-06 This volume contains the proceedings of the Ninth Meeting of the International Study Group for Tryptophan Research ISTRY held at the University of Hamburg Germany from October 10 to 14 1998 At this meeting the recent developments in the field of tryptophan research were presented by leading researchers from all over the world in 81 oral and 48 poster contributions Research on tryptophan and its derivatives provides an inexhaustible subject At the conference we tried to compose a multifacetted picture of the recent investigations through contributions from the major disciplines involved. Thus we tried to strike a balance between basic research topics and clinical nutritional or industrial applications. We offered workshops on tryptophan in sleep and mood melatonin IDO acti vation and the eosinophilia myalgia syndrome EMS as a platform for intensive discussion for the participants In these proceedings many contributions are multidisciplinary and have practical or theoretical implications for different research fields Hence we have organized this volume in nine main chapters according to basic disciplines and subjects We are aware that this classification is artificial but we hope that it is the best compromise for contributors and Neuroimmunomodulation Samuel McDonald McCann, 1997-12-31 The discipline of neuroimmunomodulation is readers devoted to interactions between the immune nervous systems at all levels and includes observation on brain pituitary peripheral nervous system and immune cells Nitric oxide synthase is contained within neurons in the brain and modifies behavioural and hormonal responses by acting on other neurons and on release of peptides and other transmitters through

activation of guanylate cyclase and cyclooxygenase Increases in this and in expression of proinflammatory cytokines can contribute to damage in patients with multiple sclerosis Parkinsonism meningitis stroke and Alzheimer s disease

Developmental Patterning of the Vertebrate Limb J.Richard Hinchliffe, Juan M. Hurle, Dennis Summerbell, 2012-12-06 Following pioneering work by Harrison on amphibian limbs in the 1920s and by Saunders 1948 on the apical ridge in chick limbs limb development became a classical model system for investigating such fundamental developmental issues as tissue interactions and induction and the control of pattern formation Earlier international conferences at Grenoble 1972 Glasgow 1976 and Storrs Connecticut 1982 reflected the interests and technology of their time Grenoble was concerned with ectoderm mesenchyme interaction but by the time of the Glasgow meeting the zone of polarizing activity ZPA and its role in control of patterning was the dominant theme Storrs produced the first intimations that the ZPA could be mimicked by retinoic acid RA but the diversity of extracellular masrix olecules particularly in skeletogenesis was the main focus of attention By 1990 the paradigms had again shifted Originally the planners of the ARW saw retinoic acid as a possible morphogen controlling skeletal patterning the variety of extracellular matrix components and their roles and the developmental basis of limb evolution as the leading contemporary topics However as planning proceeded it was clear that the new results emerging from the use of homeobox gene probes first developed to investigate the genetic control of patterning of Drosophila embryos to analyse the localised expression of patterning genes in limb buds would also be an important theme Vascular Endothelium John D. Catravas, Allan D. Callow, C. Norman Gillis, Una S. Ryan, 2012-12-06 This monograph contains the proceedings from the Advanced Study Institute on Vascular Endothelium Physiological Basis of Clinical Problems which took place in Corfu Greece in June 1990 The meeting consisted of twenty eight lectures most of them adapted as full length papers in this volume as well as numerous short oral and poster communications which are abstracted and also included in alphabetical order pages 239 302 There were ninety six participants from ten NATO and four other European countries The meeting was the second in as many years dealing with a specific subject in Endothelial Cell biology Following the 1988 discussion on Receptors and Transduction Mechanisms the present ASI recognized and tried to deal with the increasing overlap in interest between basic scientists studying endothelial cell functions and clinicians facing problems of known or suspected endothelial pathological involvement As with any similar effort we opted to be selective rather than fail by trying to be inclusive in the subjects covered We chose to discuss diseases such as atherosclerosis sepsis ARDS and stroke based on their relevance to endothelial cell function and urgent need for new insights into their pathogenesis and treatment Similarly we examined endothelial cell functions by considering their relevance to disease and their potential for elucidating important pathologies Obviously some areas were covered superficially or not at all this should not distract from their importance but rather reflect on the constraints of time and not at all negligibly the bias of the organizing committee Alcoholism: A Molecular Perspective T. Norman Palmer, 2012-12-06 This book contains selected proceedings from the

NATO Advanced Study Institute AS I The Molecular Pathology of Alcoholism held at the Hotel Il Ciocco in Tuscany during 26th August 6th September 1990 Alcoholism remains one of the most challenging problems in medical care with far reaching medical social and economic consequences For example in the U S estimates indicate that 18 million people have a serious drinking problem and that the total cost to the economy of alcohol abuse is 117 billion Treatment of alcohol dependence and other alcohol related disorders accounts for almost 15% of the total health bill of the United States Despite the scale of the medical problem biomedical research on alcoholism remains something of a Cinderella science Research funding from government and other bodies is relatively poor and the number of medical scientists working in the field remains small The Organizing Committee for this NATO ASI comprising Charles Lieber New York Timothy Peters London Mario Dianzani Torino Emanuele Albano Torino and Norman Palmer perth Director were therefore particularly grateful to the NATO Scientific Affairs Division for their active support of this AS I the first dealing with a topic related to alcohol abuse We moreover hope that this support will continue The theme of the ASI was an in depth discussion of the molecular events initiated by alcohol abuse that culminate in onset of alcohol related disease Bioorganic Chemistry in Healthcare and Technology Upendra K. Pandit, Frank C. Alderweireldt, 2012-12-06 In current thinking Bioorganic Chemistry may be defined as the area of chemistry which lies in the border region between organic chemistry and biology and which describes and analyzes biological phenomena in terms of detailed molecular structures and molecular mechanisms. This molecular level view of biological processes is not only essential to their fuller understanding but also serves as the platform for the application of the principles of such processes to areas of health care and technology The objective of the ASI workshop on Bioorganic Chemistry in Healthcare and Technology held in the Hengelhoef Congress Centre in Houthalen Helchteren Belgium from September 18 21 1990 was to bring together most of the international experts in the field to discuss the current developments and new trends in bioorganic chemistry especially in relation to the selected theme The book presents nineteen invited plenary and session lectures and eighteen posters These cover areas of i molecular design of therapeutic and agronomical agents based npon mechanistic rationale or drug receptor interactions ii production of substances of commercial value via combined organic chemical and bio chemical methodologies iii fundamental studies on the molecular mechanisms of enzymes and iv the evolution of conceptually new molecular systems which are programmed to execute specific recognition and or catalytic functions An abstracted version of the plenary discussion held at the end of the workshop is also included We feel confident that the subject matter of this book will be of interest to a broad group of chemists engaged in academic or industrial research *Ecoimmunology* Gregory Demas, Randy Nelson, 2012-01-17 The role of parasites and pathogens in the evolution of life history traits is of increasing interest to both ecologists and evolutionary biologists Immunology which was once studied almost exclusively by immunologists has become an important area of proximate investigation to animal physiologists as a means for understanding changes in disease susceptibility and the neural

and neuroendocrine mechanisms that mediate these changes The coalescence of these different perspectives has given rise to the field of ecological immunology an interdisciplinary research field that examines interactions among host physiology and disease ecology in a wide range of environmentally relevant contexts. The goal of ecological immunology is to understand immune function in the context of life history traits across a wide range of organisms Research within the field combines diverse approaches from a wide range of scientific disciplines including evolution ecology and life history theory to endocrinology neuroscience molecular biology and behavior This book critically reviews recent advances in the discipline of ecoimmunology Chapters are written by experts in their respective fields and cover diverse topics including how environmental factors can affect host immune function the complex dynamics among host immunity pathogen prevalence and disease susceptibility and the physiological mechanisms that lead to adaptive changes in immune responses By integrating analyses of immune system function within animal biology investigators will gain will gain a more comprehensive and satisfying understanding of organism environment interactions at both ultimate and proximate levels of analysis Current Catalog National Library of Medicine (U.S.), 1992 First multi year cumulation covers six years 1965 70 Patterns of Stress, Immune Function, and Disease Randy J. Nelson, Gregory E. Demas, Sabra L. Klein, Lance J. Kriegsfeld, 2002-03-25 This book presents evidence that infection is cyclical with the seasons and that this phenomenon is mirrored in cycles of immune function The book identifies the mechanisms by which immune systems are bolstered to counteract seasonally recurrent stressors such as extreme temperature reductions and food shortages Stress infectious diseases autoimmune diseases and human cancers are examined and the role of hormones such as melatonin and glucocorticoids is considered The book begins with an overview of seasonality biological rhythms and photoperiodism and basic immunology and then discusses seasonal fluctuations in disease prevalence immune function and energetics and endocrinology as they relate to immune function The clinical significance of this issue is also addressed as such seasonal changes may play an important role in the development and treatment of infections This first monograph to examine seasonal immune function from an interdisciplinary perspective will serve practitioners as well as advanced undergraduates and graduate students in biology immunology human and veterinary medicine neuroscience endocrinology and zoology New **Insights to Neuroimmune Biology** Istvan Berczi, 2010-05-27 New Insights to Neuroimmune Biology investigates the mechanisms that and functions of the Neuroimmune Regulatory Supersystem Covering molecular regulation of cytokines in brain astrocytes immunoregulation by the sympathetic nervous system circadian regulation of immune reactions antigen recognition by the CNS the modulation of the immune response by head injury neurogenic inflammation the role of tachykinins in asthma and allergic disease defence and defeat reactions cytokines behavior and affective disorders increased activity of type 1 helper T cell functions after reward stimulation This book has relevance to the entire scientific community in Biology Medicine and Veterinary medicine as it discusses molecular cellular organic and systemic aspects as well as the

physological pathophysiological and behavioral mechnisms which are involved in Neuroimmiune Biology
Gland and Its Hormones Franco Fraschini, Russel J. Reiter, Bojidar Stankov, 2012-12-06 This volume contains the written contributions to the proceedings of a workshop related to the pineal gland and its hormones which was held in Erice Italy on June 7 June 13 1994 This series of workshops which began in 1982 and which have been held at four year intervals since that time has provided important continuity for advancing the state of knowledge relating to this very important investigative area The enthusiasm for these conferences has increased steadily as reflected in the number of individuals applying to attend and in the input of individuals who participate in the meeting The 1994 meeting was important because of its timeliness In the two years preceding the meeting a number of revolutionary discoveries were made relative to the actions of the pineal hormone melatonin The Xenopus melatonin receptor was cloned melatonin was demonstrated to be a potent antioxidant the significance of melatonin receptors at the level of pars tuberalis in the regulation of the hypothalamo pituitary gonadal axis was questioned a number of melatonin receptor analogues were discovered and successfully utilized the mechanisms by which melatonin retards initiation and promotion of cancer was further elucidated the clinical aspects of the pineal gland was re scrutinized Reviews relating to each of these subjects as well as many others are contained in this proceedings book This volume represents an up to date repository for the most recent information related to this rapidly advancing field

National Library of Medicine Current Catalog National Library of Medicine (U.S.),1992 Acta Biologica Hungarica ,1996

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