

MELATONIN

Therapeutic Value and Neuroprotection



Edited by

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Melatonin Therapeutic Value And Neuroprotection

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Melatonin Therapeutic Value And Neuroprotection:

Melatonin Venkatramanujan Srinivasan, Gabriella Gobbi, Samuel D. Shillcutt, Sibel Suzen, 2014-10-15 There is growing interest in the field of melatonin research regarding its neurobiological mechanisms as well as its repercussions in clinical practice *Melatonin Therapeutic Value and Neuroprotection* explores melatonin's neuroprotective effects and discusses the therapeutic potential of melatonin and melatonin agonists in treating neurodegenerative diseases and other ailments Topics include The basic aspects of melatonin's physiology including its production bioavailability and metabolism The functional importance of melatonin receptors and their role in mediating the therapeutic effectiveness of melatonin in cancer Melatonin's effect on the regulation of blood pressure sleep and circadian rhythms The cardioprotective role of melatonin The neuroprotective role in glaucoma Alzheimer's disease Parkinson's disease and neurodegenerative diseases Use as a therapeutic agent for treating epilepsy and degenerative discs Treatment for obesity diabetes mellitus and other metabolic disorders Protective role in perinatal hypoxic ischemia The contributors also examine the discovery of a number of melatonergic agonists their potential role as antioxidants and their therapeutic applications in treating glaucoma Parkinson's disease Alzheimer's disease primary insomnia and psychiatric disorders Opening new vistas in our understanding of etiology pharmacotherapy and treatment the book is a significant milestone in our knowledge about advances in melatonin's physiology and its therapeutic application in a number of disorders

Melatonin, Neuroprotective Agents and Antidepressant Therapy Francisco López-Muñoz, Venkataramanujam Srinivasan, Domenico de Berardis, Cecilio Álamo, Takahiro A. Kato, 2016-11-16 This work is a guidebook for clinicians who are involved in treating depressive patients and also serves the research scientists who are working on the psychopharmacological mechanisms of antidepressant actions and psychopathological mechanisms underlying mood disorders Mood disorders such as major depressive disorder MDD bipolar disorder BPD and seasonal affective disorder SAD are the most disabling disorders that are among the most expensive of all medical illnesses The pathophysiology of mood disorders is very complex and involves many mechanisms like circadian rhythm disruption sleep abnormalities melatonin rhythm abnormalities and alterations in melatonin receptor mechanisms abnormalities in monoaminergic neurotransmitter mechanisms glutamatergic release mechanisms hippocampal neurogenesis and abnormal immune and cytokine release mechanisms Many antidepressants that are in clinical use today including the recently introduced novel agents like agomelatine or other antidepressants cause clinical remission by resynchronizing disrupted circadian rhythms and melatonin receptor functions enhancing monoaminergic neurotransmission promoting hippocampal neurogenesis and regulating immune mechanisms This book explains various etiological factors that are involved in the pathogenesis of mood disorders and the mechanisms of therapeutic actions of antidepressants including the recently introduced agomelatine and other antidepressants that exhibit rapid onset of action with greater efficacy and fewer side effects

Melatonin Venkatramanujan Srinivasan, Gabriella Gobbi, Samuel D. Shillcutt, Sibel Suzen, 2014-10-15

There is growing interest in the field of melatonin research regarding its neurobiological mechanisms as well as its repercussions in clinical practice Melatonin Therapeutic Value and Neuroprotection explores melatonin's neuroprotective effects and discusses the therapeutic potential of melatonin and melatonin agonists in treating neurodegenerative

Melatonin: Role in Plant Signaling, Growth and Stress Tolerance Soumya Mukherjee, Francisco J.

Corpas, 2023-08-31 The new edited volume on phytemelatonin and its diverse roles in plants under a challenging environment shall be an important reference book with updated information and future perspectives on the involvement of this biomolecule in stress resilience in plants Investigations on different aspects of melatonin in plants have undergone a prolific surge in the last decade In view of such a considerable volume of investigations in melatonin the proposed new volume will collate its role in different aspects of plants signaling growth and metabolism In this context it has been important to understand its function as a stress priming molecule that executes associative synergistic relation with various other plant growth regulators viz nitric oxide hydrogen sulfide inorganic ions and enzymes Thus crop management under diverse stressful environments can be better achieved by elucidating our current understanding of the role of melatonin and its interplay with various plant metabolites The book shall provide a collation of recent advancements in genomic transcriptomic and metabolomic approaches to decipher the molecular mechanisms of melatonin signaling and its agronomic importance in plants Agave negatively regulates YAP and TAZ transcriptionally and post-translationally in osteosarcoma cell lines Maria

Ferraiuolo, 2022-11-30 Osteosarcoma OS is the most aggressive type of primary solid tumor that develops in bone Whilst conventional chemotherapy can improve survival rates the outcome for patients with metastatic or recurrent OS remains poor so novel treatment agents and strategies are required Previously published works indicate that Agave exhibits anticancer properties In the present study anticancer effects of Agave leaf extract were investigated in the OS cells discovering that Agave inhibits cell growth and cell migration and sensitizes OS cells to cisplatin CDDP to overcome chemoresistance Agave's mechanisms of action include an initial process in which Agave induces YAP TAZ oncogenic protein degradation followed by a secondary event whereby Agave inhibits YAP TAZ transcription through NF B p65 p50

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Inflammation, Aging, and Oxidative Stress Stephen C. Bondy, Arezoo Campbell, 2016-12-14 The book describes the major degenerative processes and pathologies exacerbated by senescence and how they can be alleviated through retardation of cellular aging Topics discussed include neurodegenerative disease protein oxidation cerebrovascular disease particle induced inflammation and cardiovascular disease Alzheimer's disease ovarian aging dietary and endogenous anti oxidants in management of Parkinson's disease and effects of exercise on oxidation and inflammation The nineteen expertly authored chapters are organized into three sections in order to present a complete picture to the reader Age Related Cellular Events Role of Inflammatory and Oxidative Processes in Age Related Diseases and Retardation of Cellular Aging Inflammation

Oxidative Stress and Age Related Disease draws from a variety of international perspectives and provides a comprehensive overview of the relationship between disease cell aging and oxidative stress as well as potential for preventing or slowing these processes This installment of Springer s Oxidative Stress in Applied Basic Research and Clinical Practice is ideal for researchers clinicians and advanced graduate students in the fields of cardiology neuroscience biogerontology and cell biology

Natural Molecules in Neuroprotection and Neurotoxicity Marcos Roberto de Oliveira,2023-12-22 Natural Molecules in Neuroprotection and Neurotoxicity brings together research in the area of natural compounds and their dual effects of neuroprotection and neurotoxicity when interacting with brain cells This book is organized into four sections that address molecular mechanism underlying neuroprotection and neurotoxicity neuroprotection mediated by natural molecules neurotoxicity induced by natural compounds and nanotechnology related strategies utilized in neuroprotection Written by well known researchers all over the world chapters provide an in depth analysis of numerous molecules such as algae plant and fungus derived molecules and comprehensively discuss their mechanisms of action and possible clinical applications This book provides an essential reference for researchers and clinical scientists interested in the effects of natural compounds on the human health and disease Covers both neuroprotective and neurotoxic outcomes resulted from the exposure of brain cells to natural molecules Analyzes numerous natural compounds including animal vegetal fungal bacterial and marine derived molecules Discusses the effects of the metabolism of microbiota on the biotransformation of natural molecules and the consequences of these processes on brain cells Contains a section focused on the nanotechnology related strategies utilized to enhance the bioavailability of natural molecules to brain cells

Psychiatry and Neuroscience Update Pascual Ángel Gargiulo,Humberto Luis Mesones Arroyo,2018-11-28 This broad and thought provoking volume provides an overview of recent intellectual and scientific advances that bridge the gap between psychiatry and neuroscience offering a wide range of penetrating insights in both disciplines The third volume on the topic in the last several years from a varying panel of international experts this title identifies the borders trends and implications in both fields today and goes beyond that into related disciplines to seek out connections and influences Similar to its two Update book predecessors Psychiatry and Neuroscience Volume III presents the current state of the art in the main disciplines psychiatry and neuroscience and attempts to provide deeper comprehension or explication of the normal and diseased human mind its biological correlates and its biographical and existential implications This engaging volume continues the previous style of exploring different disciplines and trying to integrate disciplinary evidence from varying points of view in an organic manner Developed for clinicians and researchers in the fields of medicine psychiatry psychology and biology this third volume also will be of great interest to students and university professors of diverse disciplines

Biochemistry and Cell Biology of Ageing: Part IV, Clinical Science J. Robin Harris,Viktor I. Korolchuk,2023-04-29 This book provides an up to date overview of key areas of ageing research and bridges the gap between the subcellular events and the reality of ageing as seen in clinical practice To

this end the reader learns about the historical development and progression of clinical ageing research All chapters address the biochemistry or cell biology of various ageing events to the extent that the data are available and work their way to the clinical understanding we have of ageing The focus of this volume is on how dietary restriction virus infection and chronic inflammation affect the ageing process Additionally this book discusses how phosphate metabolism and metabolic dysfunction contribute to ageing events and how various organs and tissues e g tendons ears heart muscle and the endocrine system age This book follows on from Parts I II and III of Biochemistry and Cell Biology of Ageing within the Subcellular Biochemistry book series and aims to bring the subcellular and clinical areas into closer contact by including interesting and significant biomedical ageing topics that were not included in the earlier volumes Comprehensive and cutting edge this book is a valuable resource for experienced researchers and early career scientist alike who are interested in learning more about the fascinating and challenging question of why and how our cells age

The Pineal Gland: Deciphering the Secrets of the Third Eye Tresno Saras,2024-04-21 The Pineal Gland Deciphering the Secrets of the Third Eye delves into the enigmatic nature of the pineal gland a small yet profoundly significant gland located deep within the brain This book serves as a comprehensive exploration of the anatomy physiology and multifaceted functions of the pineal gland also known as the third eye Beginning with an introduction to the pineal gland readers are introduced to its anatomical features and physiological functions The book elucidates the role of the pineal gland in the production and regulation of melatonin the hormone primarily responsible for regulating circadian rhythms and sleep wake cycles Moreover The Pineal Gland explores the pineal gland s historical and cultural significance tracing its portrayal in spiritual and esoteric traditions as the seat of consciousness and spiritual enlightenment Readers will gain insights into the intricate interplay between the pineal gland circadian rhythms and biological processes as well as its involvement in various health conditions and disorders when dysfunctional Through accessible language and illustrative examples this book serves as a valuable resource for students researchers and anyone intrigued by the profound mysteries of the pineal gland The Pineal Gland invites readers on a captivating journey into the realm of this fascinating gland unraveling its secrets and shedding light on its profound impact on human health and consciousness

The Handbook of Neuroprotection Kewal K. Jain,2019-05-15 This fully revised edition explores the management of neurological disorders with a focus on neuroprotection disease modification and neuroregeneration rather than symptomatic treatment Since the publication of the first edition advances in biotechnology particularly in cell and gene therapies are reflected in this volume as are numerous new and repurposed drugs in clinical trials Overall The Handbook of Neuroprotection serves as a comprehensive review of neuroprotection based on knowledge of the molecular basis of disorders of the central nervous system In depth and authoritative The Handbook of Neuroprotection Second Edition features a compendium of vital knowledge aimed at providing researchers with an essential reference for this key neurological area of study

Ferroptosis in Stroke, Neurotrauma and Neurodegeneration Anwen Shao,Zhen-Ni

Guo,John Zhang,Weilin Xu,2022-03-09 **Fanaroff and Martin's Neonatal-Perinatal Medicine E-Book** Richard J. Martin,Avroy A. Fanaroff,Michele C. Walsh,2019-04-11 Trusted by physicians and advanced practice providers through ten standard setting editions Fanaroff and Martin s Neonatal Perinatal Medicine 11th Edition remains the reference of choice for expert multidisciplinary guidance on the management and evidence based treatment of problems in the mother fetus and neonate An expanded team of international authors led by Drs Richard J Martin Avroy A Fanaroff and Michele C Walsh of Rainbow Babies and Children s Hospital brings you up to date with advances in the control of nosocomial infections in preterm infants genetic disorders and birth defects the fetal origins of adult disease the late preterm infants and much more all designed to help you improve the quality of life and long term outcomes of your patients Helps you make informed clinical choices for each patient from diagnosis and treatment selection through post treatment strategies and management of complications with a dual focus on neonatology and perinatology Includes a new chapter on Social and Economic Contributors to Neonatal Outcome Features extensive updates and reorganization throughout with new Key Points at the end of each chapter Provides up to date evidence based content with more information on precision medicine and genetics Uses detailed full color illustrations that depict disorders in the clinical setting and explain complex information Remains the most comprehensive multidisciplinary text in the field an excellent source of information for every stage of your practice

Global Excellence in Cellular Neuropathology: Ukraine Oleg Krishtal,Elena A. Lukyanetz,Dirk M. Hermann,Andrii O. Cherninskyi,2024-01-22 Global collaboration is the cornerstone of scientific advancement Frontiers in Cellular Neuroscience has organized a series of special edition Research Topics with the goal of highlighting the latest advancements in Neuropathology across the globe showcasing the academic excellence and high quality work of internationally recognized researchers These collections aim to shed light on the recent progress made across the entire breadth of the Cellular Neuropathology field and reflect on the future challenges faced by researchers across borders **Maximize Your**

Metabolism Noel Maclaren,Sunita Singh Maclaren,2021-04-13 From an award winning endocrinology pioneer and metabolism expert comes a revolutionary sustainable and scientific approach to help you lose weight regain energy clear your mind and prevent disease Each of us fits into one of five different body types based on our bodies level of insulin resistance the book includes an easy self assessment quiz for readers to identify their type Maximize Your Metabolism offers unique diet and exercises plans tailored for each of the five different body types as well as core recommendations that every type should follow including A low carb diet rich in vegetables with modest portions of meat eggs cheese plain Greek yogurt and low sugar fruits such as Granny Smith apples berries and green crunchy pears Avoiding healthy foods that are actually hurting you quinoa is a simple carbohydrate you should substitute with cauliflower rice agave is actually worse for your metabolism than sugar and probiotics are overrated instead choose prebiotics such as artichokes leaks and onions Sleep 6 8 hours per night and recommended testing for sleep apnea Exercise 3 times per week as vigorous as you can for as long as

you can This book is based on the extraordinary successful program that Dr Maclaren has prescribed to thousands of patients with great success Filled with specific guidance and over 30 delicious recipes Maximize Your Metabolism is the perfect diet for readers who want to lose weight and love their lives every step of the way *Targeting Neuroinflammation for Novel Therapeutics in Neurodegenerative Diseases* Pukar Khanal,Jatin Machhi ,Rupesh V. Chikhale,2025-06-02 Neurodegenerative disorders have increasing incidence with limited treatment options Approaches to target neuroinflammation in various neurodegenerative disorders such as Alzheimer s disease AD involve a quest for innovative therapeutics A comprehensive understanding of the quest for small compounds that improve amyloid processing regulate autophagy hinder A accumulation and investigate the array of phytochemicals present in naturally occurring nootropics ethnomedicines and polypharmacology may facilitate the exploration of diverse pharmacological approaches to impede disease advancement Galantamine from snowdrops Galanthus spp is just one example of a current core medication used in the management of cognitive decline pointing to the potential of small molecules in this context In addition the combinations of computational and experimental pharmacological methods enable the exploration of small molecules within crucial neurodegenerative processes which can help to develop potential therapeutic compounds *Endocrine Modulators of Neurological Processes: Potential Treatment Targets of Pediatric Neurological Diseases* Hong Ni,Giuseppe Biagini,Dinesh Upadhy,alessandro Capuano,2021-03-26

World Congress on Medical Physics and Biomedical Engineering May 26-31, 2012, Beijing, China Mian Long,2013-02-11 The congress s unique structure represents the two dimensions of technology and medicine 13 themes on science and medical technologies intersect with five challenging main topics of medicine to create a maximum of synergy and integration of aspects on research development and application Each of the congress themes was chaired by two leading experts The themes address specific topics of medicine and technology that provide multiple and excellent opportunities for exchanges

Frontiers in Clinical Drug Research - CNS and Neurological Disorders Atta-ur- Rahman,2018-09-14 Frontiers in Clinical Drug Research CNS and Neurological Disorders is a book series that brings updated reviews to readers interested in advances in the development of pharmaceutical agents for the treatment of central nervous system CNS and other nerve disorders The scope of the book series covers a range of topics including the medicinal chemistry pharmacology molecular biology and biochemistry of contemporary molecular targets involved in neurological and CNS disorders Reviews presented in the series are mainly focused on clinical and therapeutic aspects of novel drugs intended for these targets Frontiers in Clinical Drug Research CNS and Neurological Disorders is a valuable resource for pharmaceutical scientists and postgraduate students seeking updated and critical information for developing clinical trials and devising research plans in the field of neurology The sixth volume of this series features reviews that cover the following topics Depression Insomnia and Atypical Antidepressants Combination Therapy of Hypothermia for Hypoxic Encephalopathy in Neonates Development of A Theranostic Nano Bullet for Tinnitus Dexmedetomidine From Basic Science to Clinical Application of Brain Protection

Protein Misfolding Aggregation Amyloid Formation in Neurodegenerative Diseases Cognitive Stimulants: from Caffeine to Cannabinoids - Current and Future Perspectives Pablo Pandolfo, Ana Elisa Speck, Marta Cristina da Cunha-Rodrigues, Daniel Moreira-Silva, 2025-02-06 Cognitive enhancement is a broad concept potentially achieved in simple ways such as eating healthily or regularly practicing physical activity. Among certain portions of the population, for instance among students or professionals seeking for immediate response and action, there has been a growing demand for stimulant substances to enhance cognitive abilities. These are consumed either to address the need for long lasting and sustained focus or to stay alert for strenuous activities. Cognitive stimulants include an array of substances either available in commerce, for instance CNS stimulants such as Ritalin and Piracetam, or deriving from natural compounds such as green tea caffeine or phytocannabinoids, just to mention a few. However, these are not the only CNS stimulants adopted for cognitive enhancement. There is in fact a large consumption of potential substances of abuse such as amphetamines to enhance cognitive and perceptual abilities.

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