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Titolo	Melatonin and Melatonergic Drugs in Clinical Practice // edited by V. Srinivasan, Amnon Brzezinski, Sukru Oter, Samuel D. Shillcutt
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Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Melatonin Receptors and Their Role in Human Diseases -- Melatonin's Antioxidant Properties: Molecular Mechanisms -- Past, Present and Future of Melatonin's Clinical Uses -- Melatonin in Human Cancer: Therapeutic Possibilities -- Melatonin: Its Microbicidal Properties and Clinical Applications -- Melatonin and the Metabolic Syndrome -- Development of Agonists and Antagonists for Melatonin Receptors -- Multiple Facets of Melatonin in Immunity: Clinical Applications -- Melatonin and Immune Function: Clinical Significance -- Circadian Variation of Immune Mechanisms in Lung Cancer and the Role of Melatonin -- Melatonin and Melatonergic Drugs for Therapeutic Use in Breast Cancer -- Melatonin and Malaria: Therapeutic Avenues -- Melatonin's role in human reproduction: recent studies -- Melatonin Treatment and Fertility -- Melatonin and Pain: Therapeutic Applications -- Melatonin in Alzheimer's disease: Focus on Neuroprotective Role -- Melatonin in Parkinson's disease and its

Therapeutic Potential -- Melatonin and Its Agonists in Sleep Disorders -- Agomelatine in Depressive Disorders -- Melatonin in Mood Disorders and Agomelatine's Antidepressant Efficacy -- The Role of Agomelatine in the Treatment of Anxiety Disorders .- Melatonin in the Etiology, Pathophysiology, and Management of Schizophrenia -- Neurobiology of Monoaminergic Neurotransmission and Antidepressants -- Melatonergic Drug - Ramelteon and Its Therapeutic Applications in Insomnia -- Melatonin's Neuroprotective Actions on Hippocampal Neurons -- Jet Lag: Use of Melatonin and Melatonergic Drugs -- Sleep, Melatonin and Circadian Rhythmicity in Attention Deficit Hyperactivity Disorder -- Melatonergic Drugs and Their Therapeutic Use in Nasal Polyposis -- Protective Effects of Exogenous Melatonin Against Methotrexate- Induced Intestinal Injury.

Sommario/riassunto

The book aims to cover basic physiologic functions of melatonin, and its therapeutic applications in humans for a variety of clinically relevant disorders. This book contains chapters on the recent aspects of melatonin physiology, its receptors and their role in mitochondrial function, its immunomodulatory role and importance in seasonal dependent diseases, role in human reproduction, role in sleep, circadian rhythm and sleep disorders, role in neurologic disorders such as Parkinson's disease, Alzheimer's disease. Additionally, melatonin's therapeutic use in neurobehavioral disorders in children, migraine and tension headache is also covered in this book. Melatonin's antioxidant role in Duchenne's muscular dystrophy and in glaucoma have also been discussed in short chapters. Two major melatonin agonists, ramelteon and agomelatine are discussed extensively on their current clinical application and ongoing research. Two chapters on agomelatine and its role in mood disorders, particularly depressive disorders, are an important feature of this book. The chapters are written by experts from the global academia recognized for their original research and published work in the field of melatonin science.
