



**REM**



# Rapid Eye Movement Sleep

**Claude Gottesmann**



## **Rapid Eye Movement Sleep:**

Rapid Eye Movement Sleep Birendra N. Mallick, S. R. Pandi-Perumal, Robert W. McCarley, Adrian R. Morrison, 2011-07-14  
Spanning over half a century of investigation into Rapid Eye Movement REM sleep this volume provides comprehensive coverage of a broad range of topics in REM sleep biology World renowned researchers and experts are brought together to discuss past and current research and to set the foundation for future developments Key topics are covered in six sections from fundamental topics historical context and general biology to cutting edge research on neuronal regulation neuroanatomy and neurochemistry functional significance and disturbance in the REM sleep generating mechanism A reference source for all aspects of REM sleep research it also incorporates chapters on neural modelling findings from non human species and interactions between brain regions This is an invaluable resource essential reading for all involved in sleep research and clinical practice

Sleep - Physiology, Functions, Dreaming and Disorders Kiyomi Bando, 2012 Rapid eye movement sleep REM sleep is a normal stage of sleep characterized by the random movement of the eyes REM sleep is classified into two categories tonic and phasic and criteria for REM sleep includes rapid eye movement but also low muscle tone and a rapid low voltage EEG REM sleep in adult humans typically occupies 20 25% of total sleep about 90 120 minutes of a night s sleep In this book the authors present current research on REM sleep including the relationship of depression to REM sleep neural regulation of REMs and the critical role of GABA ergic inhibition physiological effects and genotoxicity in humans and models corresponding to sleep deprivation and the pathogenic mechanisms of sleep hallucinations

**Rapid Eye Movement Sleep** Kiyomi Bando, 2012 Rapid eye movement sleep REM sleep is a normal stage of sleep characterised by the random movement of the eyes REM sleep is classified into two categories tonic and phasic and criteria for REM sleep includes rapid eye movement but also low muscle tone and a rapid low voltage EEG REM sleep in adult humans typically occupies 20 25% of total sleep about 90 120 minutes of a night s sleep In this book the authors present current research on REM sleep including the relationship of depression to REM sleep neural regulation of REMs and the critical role of GABA ergic inhibition physiological effects and genotoxicity in humans and models corresponding to sleep deprivation and the pathogenic mechanisms of sleep hallucinations

**Rapid Eye Movement (Rem) Sleep** B.N. Mallick, 1998 Rapid eye movement REM is a unique phenomenon within the sleep cycle This work covers the basic understanding mechanism and role function of this complex behaviour in life processes The book is aimed at postgraduate PhD students and researchers

*Rapid Eye Movement Sleep* MallIck/Inoue, 1999-06-29 This reference also includes nine color plates Written by leading international scientists in the field this comprehensive and up to date reference provides detailed coverage of various aspects of rapid eye movement sleep REMS including phylogeny and evolution ontogeny neurophysiological and neurochemical phenomena molecular processes behavioral and physiological changes due to deprivation and hypotheses on the neurodynamics of REMS Examining the relationship between the neocortex in mammals and birds in the evolution of REM

sleep Rapid Eye Movement Sleep considers the roles of REMS in the maturation of the brain reveals a new theory that challenges the assumption that REM is solely initiated by bulbar mechanisms in intact animals explores experimental studies of REMS atonia and the mechanisms underlying tonic and phasic muscle atonia describes the cellular and molecular mechanisms and function of pontine ponto geniculo occipital waves during REMS details the role of nitric oxide in the regulation of REMS summarizes new evidence on which neurotransmitters are responsible for the REMS generating mechanism presents an overview of several endogenous sleep substances that may positively or negatively regulate REMS and more Rapid Eye Movement Sleep serves as essential reading for all researchers and clinicians in the study of sleep science particularly physiologists and biologists neurologists neuropsychiatrists psychiatrists and psychologists anesthesiologists and pharmacologists

**Rapid Eye Movement Sleep** Birendra Nath Mallick, S R Pandi-Perumal, Robert W McCarley, Adrian R Morrison, 2014-05-14 World renowned researchers discuss past and current research into REM sleep and set the foundation for future developments

The Golden Age of Rapid Eye Movement Sleep Discoveries, 1965-1966 Claude Gottesmann, 2005 Rapid eye movement sleep the main dreaming stage was definitively identified in 1953 However up to 1964 the research in this field although very significant for the first steps of knowledge was not very extensive In contrast there was an explosion of results in 1965 and 1966 In this book the author analyses all published physiological and psychological studies integrating wherever possible previous and more recent findings This book is principally dedicated to research workers entering the study of rapid eye movement sleep REM sleep

**Rapid-Eye-Movement Sleep Behavior Disorder** Carlos H. Schenck, Birgit Högl, Aleksandar Videnovic, 2018-09-18 This book describes a sleep disorder belonging to the category of parasomnias i e the sleep behavioral and experiential disorders characterized by abnormal vocal and motor behaviors in the context of vivid dreams and loss of the customary muscle atonia during the stage of sleep called REM sleep REM atonia one of the defining features of REM sleep along with rapid eye movements and a highly activated brain state serves a protective function preventing the dreamer from acting out dreams and becoming injured REM sleep behavior disorder RBD was first described in 1986 by Schenck and colleagues since then the understanding of the condition has increased exponentially also pointing out its strong association with the development of neurodegenerative disorders characterized by alpha synuclein deposition such as Parkinson s disease Dementia with Lewy bodies and Multiple System Atrophy Furthermore RBD is now considered one of the earliest markers of ongoing alpha synuclein neurodegeneration and provides a window of opportunity for testing disease modifying therapies that may slow down or halt the progression of these disorders for which there is currently no cure Additionally RBD is today known to be present in more than 50% of patients with narcolepsy cataplexy and can also be triggered by the most commonly prescribed antidepressant medications e g SSRIs venlafaxine RBD has been documented as occurring with variable frequency with virtually every category of neurologic disease and has also helped expand the field of dream research The volume Editors have pioneered scientific and clinical

advances in the field and partnering with leading sleep clinicians and researchers on this book have produced an invaluable guide to specialists in sleep medicine neurology psychiatry and psychology There are also strong contributions in this book by leading basic science researchers and so this book should also appeal to neuroscientists As stated in the book RBD is situated at a strategic and busy crossroads of sleep medicine and the neurosciences RBD offers great breadth and depth of research opportunities including extensive inter disciplinary and multinational research opportunities RBD is an experiment of Nature in which knowledge from the study of motor behavioral dyscontrol during REM sleep with dream enactment has cast a broad and powerful light on a multitude of Central Nervous System disturbances their evolution and their comorbidities

Discovery of Rapid Eye Movement (REM) Sleep by William C Dement and Michel Juvet, 1955-1970 Claude Gottesmann,2017 Last century's research on sleep may be divided into two different time periods The first half of the century was dominated by the work of Henri Pi ron and Nathaniel Kleitman and was devoted to sleep experiments of a classical nature that were performed on animals and humans Gottesmann Nova 2013 At the beginning of the second half of the century a major discovery identified a sleep phase during which eye movements can be recorded and dreaming occurs William C Dement and Michel Juvet dominated the next fifty years independently with their discovery of nearly all the properties concerning rapid eye movement REM sleep also called paradoxical sleep This book analyses the first major findings that were made possible by all the available methods behavioral observations electrophysiology surgical interventions pharmacology used by both authors to characterize this sleep stage All the successive papers by Dement and Juvet are analyzed in turn for the period from 1955 to 1970 The results that came of the authors research environment are taken into account and all the data available in the past and present are discussed and integrated into those findings

**The Corsini Encyclopedia of Psychology and Behavioral Science, Volume 4** W. Edward Craighead, Charles B. Nemeroff,2002-11-11 A complete reference to the fields of psychology and behavioral science Volume 4 is the final volume in The Corsini Encyclopedia of Psychology and Behavioral Science series Providing psychologists teachers researchers and students with complete reference for over 1 200 topics across four volumes this resource is invaluable for both clinical and research settings Coverage includes conditions assessments scales diagnoses treatments and more including biographies on psychologists of note and psychological organizations from across the globe The Third Edition has been updated to reflect the growing impact of neuroscience and biomedical research providing a highly relevant reference for the highest standard of care

**Essentials of Medical Physiology** K Sembulingam,2019-08-31 Section 1 General Physiology Section 2 Blood and Body Fluids Section 3 Muscle Physiology Section 4 Digestive System Section 5 Renal Physiology and Skin Section 6 Endocrinology Section 7 Reproductive System Section 8 Cardiovascular System Section 9 Respiratory System and Environmental Physiology Section 10 Nervous System Section 11 Special Senses Index

**Parkinsonian Disorders: Advances in Research and Treatment: 2011 Edition** ,2012-01-09 Parkinsonian Disorders Advances in Research and

Treatment 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Parkinsonian Disorders The editors have built Parkinsonian Disorders Advances in Research and Treatment 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Parkinsonian Disorders in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Parkinsonian Disorders Advances in Research and Treatment 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

**Neurologic-Psychiatric Syndromes in Focus - Part I** J. Bogousslavsky, 2017-11-16 After a period in which neurology and psychiatry have become more and more defined neurologists interest in psychiatric topics and vice versa has increased This book provides readers with an overview of the most representative neuropsychiatric syndromes such as Ganser and Capgras syndromes It fills an existing gap in current literature and reintroduces a clinical approach Additionally there is a historical perspective throughout time with a focus on the most relevant clinical syndromes offering distinct value to readers With this approach the book serves as a useful and stimulating guide on the diagnosis and management of neurologic psychiatric syndromes It is for neurologists neurosurgeons psychiatrists and all others interested in neuropsychiatric topics because these syndromes also called uncommon may in fact be more frequent than the literature suggests

**Clinical Studies and Therapies in Parkinson's Disease** Juan Segura-Aguilar, 2021-06-12 More than 50 years have passed since the use of L dopa in the palliative treatment of Parkinson s disease but it remains the most common treatment despite inducing severe side effects such as dyskinesia after 4 6 years of use Numerous preclinical investigations based on endogenous neurotoxin models have promised various therapies for Parkinson s disease but these efforts have failed when attempting to transfer these successful results to preclinical studies Although several publications have warned of these failures the scientific community remains mostly unaware and there is a need to focus their efforts on potential therapeutics that can slow or halt development of the disease Clinical Studies and Therapies in Parkinson s Disease Translations from Preclinical Models analyzes preclinical models based on exogenous neurotoxins and why they have failed Neuroscientists neurologists and neuropharmacologists will benefit greatly from the book s discussion of these newer models their benefits and the need for their implementation This book also provides the basic concepts of dopamine metabolism for students taking courses in neurochemistry neuroscience neuropharmacology biochemistry and medicine Reviews Parkinson s disease classification pharmacological therapies and nonmotor and motor symptoms Analyzes preclinical models of Parkinson s disease therapies based on exogenous neurotoxins and why they have failed Reviews genetic preclinical models based on genetic mutations and endogenous neurotoxins Proposes a more physiological model directly related to the metabolism of

dopaminergic neurons Provides the basic concepts and mechanisms of dopamine metabolism Issues in Brain and Cognition Research: 2011 Edition, 2012-01-09 Issues in Brain and Cognition Research 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Brain and Cognition Research The editors have built Issues in Brain and Cognition Research 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Brain and Cognition Research in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Brain and Cognition Research 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> **The Practice of Eye Movement**

**Desensitization** Alan Hassard, 2022-06-07 This book is an introduction discussion manual and attempted explanation of eye movement desensitization therapy **Movement Disorders Curricula** Cristian Falup-Pecurariu, Joaquim Ferreira, Pablo Martinez-Martin, Kallol Ray Chaudhuri, 2017-02-27 This book offers a comprehensive approach to the wide range of movement disorders an important specialty in the field of neurology guiding readers from the phenomenology to diagnosis and management Reflecting the latest developments in the field it offers a unique summary of this dynamic area by pursuing a uniform approach to movement disorders curricula Divided into three parts Movement Disorders Curricula provides an authoritative overview of this growing branch of neurology The first part presents the basic elements of movement disorders including descriptions of the anatomy and physiology of the basal ganglia It also features sections on clinical trials for movement disorders practical skills and rating scales The second and third part examine in detail hypokinetic and hyperkinetic movement disorders respectively Equipping readers with the practical and research skills needed in the movement disorders field the book offers a valuable tool to help them prepare for board examinations on general neurology as well as for fellowships in movement disorders Pediatric Neurology Kenneth F. Swaiman, Stephen Ashwal, Donna M. Ferriero, 2006-01-01 This Gold Standard in clinical child neurology presents the entire specialty in the most comprehensive authoritative and clearly written fashion Its clinical focus along with relevant science throughout is directed at both the experienced clinician and the physician in training New editor Dr Ferriero brings expertise in neonatal neurology to the Fourth Edition New chapters Pathophysiology of Hypoxic Ischemic Encephalopathy Congenital Disorders of Glycosylation Pediatric Neurotransmitter Diseases Neurophysiology of Epilepsy Genetics of Epilepsy Pediatric Neurorehabilitation Medicine Neuropsychopharmacology Pain and Palliative Care Management Ethical Issues in Child Neurology **Sleep in Medical and Neurologic Disorders, An Issue of Sleep Medicine Clinics** Flavia B. Consens, 2016-02-27 Dr Flavia B Consens has assembled an expert team of authors on the topic of Sleep in Medical and Neurologic Disorders Articles include

Sleep and pulmonary disease Sleep and Pain Sleep and Neurodegenerative Disorders Sleep and Stroke Sleep in the pediatric population Sleep and cancer Narcolepsy and excessive daytime sleepiness Sleep in the hospitalized patient Sleep and psychiatric disorders Occupational sleep medicine and more      Sleep Teofilo L. Lee-Chiong, 2005-12-13 A unique resource on sleep medicine Written by contemporary experts from around the world Sleep A Comprehensive Handbook covers the entire field of sleep medicine Taking a novel approach the text features both syndrome and patient oriented coverage making it ideally suited for both clinical use and academic study Sleep A Comprehensive Handbook begins with a brief introduction to the basic science of sleep from neurobiology to physiologic processes This leads into sections offering comprehensive coverage of insomnia sleep apnea narcolepsy parasomnias movement disorders and much more Sleep and related disorders are also discussed followed by chapters on considerations for special patient groups Special materials for practitioners include a sample interview and questionnaire as well as a chapter on operating and managing a sleep center The text concludes with discussions of sleep assessment methods such as polysomnography actigraphy and video EEG monitoring With full coverage of over 100 key topics in sleep medicine Sleep A Comprehensive Handbook offers the most practical thorough yet handy resource available on adult and pediatric sleep medicine Praise from the reviews no other publication in the field can begin to compare with the breadth or depth of the Handbook I cannot imagine a functioning sleep disorders clinic without at least one copy on standby as a ready reference PscyCRITIQUES Sleep A Comprehensive Handbook is a first rate textbook with concise up to date information covering a wide range of subjects pertinent to the practice of sleep medicine DOODY S HEALTH SERVICES



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