Record Nr. UNINA9910787769803321 The genetic basis of sleep and sleep disorders // [edited by] Paul Shaw, **Titolo** Medhi Tafti, Michael Thorpy [[electronic resource]] Pubbl/distr/stampa Cambridge:,: Cambridge University Press,, 2013 **ISBN** 1-107-44068-8 1-107-42538-7 1-107-42315-5 1-107-42006-7 1-107-41745-7 1-107-42138-1 1-139-64946-9 Descrizione fisica 1 online resource (xvii, 399 pages) : digital, PDF file(s) Collana Cambridge medicine Disciplina 616.8/498042 Soggetti Sleep disorders Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Title from publisher's bibliographic system (viewed on 05 Oct 2015). Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Machine generated contents note: Preface; Part I. General Principles of Genetics and Genomics: 1. Methods in complex trait analysis: mapping the genetic basis of sleep using model organisms Amelie Baud and Jonathan Flint: 2. Linkage and associations Elizabeth J. Rossin and Benjamin M. Neale; 3. Genome-wide association study approaches to sleep phenotypes Patrick Sleiman, Michael March and Hakon Hakonanson; Part II. Genetics of Sleep and Circadian Rhythms: 4. Genetic epidemiology of sleep and sleep disorders Christer Hublin and Jaakko Kaprio; 5. Drosophlia model systems for genetic sleep research Stephane Dissel and Paul J. Shaw; 6. Caenorhabditis elegans and zebrafish in sleep research David A. Prober and David M. Raizen; 7. Optogenetic control of arousal neurons Antoine Adamantidis, Matthew E. Carter and Luis De Lecea; 8. Prostaglandin D2 in the regulation of sleep Yoshihiro Urade and Michael Lazarus; 9. Astroglial regulation of sleep Marcos G. Frank; 10. The role of metabolic genes in sleep regulation Matthew S. Thimgan and Karen D. Schilli; 11. A systems biology approach for uncovering the genetic landscape for multiple

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Sommario/riassunto

The first comprehensive book on the subject, The Genetic Basis of Sleep and Sleep Disorders covers detailed reviews of the general principles of genetics and genetic techniques in the study of sleep and sleep disorders. The book contains sections on the genetics of circadian rhythms, of normal sleep and wake states and of sleep homeostasis. There are also sections discussing the role of genetics in the understanding of insomnias, hypersomnias including narcolepsy, parasomnias and sleep-related movement disorders. The final chapter highlights the use of gene therapy in sleep disorders. Written by genetic experts and sleep specialists from around the world, the book is up to date and geared specifically to the needs of both researchers and clinicians with an interest in sleep medicine. This book will be an invaluable resource for sleep specialists, neurologists, geneticists, psychiatrists and psychologists.