

1. Record Nr.	UNINA9910462906703321
Titolo	The genetic basis of sleep and sleep disorders // [edited by] Paul Shaw, 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. Drosophila 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. Thimman and Karen D. Schilli; 11. A systems biology approach for uncovering the genetic landscape for multiple

sleep-wake traits Peng Jiang, Andrew Kasarskis, Christopher J. Winrow, John J. Renger and Fred W. Turek; 12. Genetic control of the circadian pacemaker Ethan Buhr and Joseph S. Takahashi; 13. Epigenetic basis of circadian rhythms and sleep disorders Irfan A. Qureshi and Mark F. Mehler; Part III. Sleep Physiology and Homeostasis: 14. Genetics of sleep and EEG Thomas Curie and Mehdi Tafti; 15. Genetic interaction between circadian and homeostatic regulation of sleep Vale;rie Mongrain and Paul Franken; 16. Genetic approaches to understanding circadian entrainment Till Roenneberg and Karla V. Allebrandt; 17. Animal models for cognitive deficits induced by sleep deprivation Laurent Seugnet and Paul Salin; 18. Individual differences in sleep duration and responses to sleep loss Devon A. Grant and Hans P. A. Van Dongen; 19. Clock polymorphisms associated with human diurnal preference Simon N. Archer and Derk-Jan Dijk; 20. Sleep and long-term memory storage Jennifer H. K. Choi and Ted Abel; 21. Sleep and synaptic homeostasis Chiara Cirelli and Giulio Tononi; Part IV. Insomnias: 22. Heritability and genetic factors in chronic insomnia Yves Dauvilliers and Charles M. Morin; Part V. Narcolepsy and Hypersomnias: 23. HLA and narcolepsy Katsushi Tokunaga and Makoto Honda; 24. Orexin (hypocretin) and narcolepsy Takeshi Sakurai and Seiji Nishino; 25. Gene-wide association studies in narcolepsy Hyun Hor; 26. Genetic disorders producing symptomatic narcolepsy Seiji Nishino and Takashi Kanbayashi; 27. Genetics of recurrent hypersomnia Michael Billiard, Rosa Periata-Adrados and Mehdi Tafti; Part VI. Sleep-related Breathing Disorders: 28. Linkage and candidate gene studies of obstructive sleep apnea Annette C. Fedson, Thorarinn Gislason and Allan I. Pack; 29. Genomic mutations and genotype-phenotype in pediatric sleep-related breathing disorders Leila Kheirandish-Gozal and David Gozal; Part VII. Circadian Rhythm Sleep Disorders: 30. Genetic of familial advanced sleep phase Suet Ying Chong, Louis J. Ptacek and Ying-Hui Fu; 31. Delayed sleep phase disorder, circadian genes, sleep homeostasis and light sensitivity Simon N. Archer and Derk-Jan Dijk; Part VIII. Parasomnias and Sleep-related Movement Disorders: 32. Family and genome-wide association studies of restless legs syndrome Eva C. Schulte and Juliane Winkelmann; Part IX. Psychiatric and Medical Disorders: 33. Circadian clock genes and psychiatric disorders Marc Cuesta, Nicholas Cermakian and Diane B. Boivin; 34. Genetics of autosomal dominant nocturnal frontal lobe epilepsy Keivan Kaveh Moghadam and Giuseppe Plazzi; Part X. Medication Effects: 35. Gene therapy for sleep disorders Dheeraj Pelluru, RodaRani Konadhode, Carlos Blanco-Centurion, Meng Liu and Priyattam J. Shiromani; Index.

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.
