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Collana	Handbook of Experimental Pharmacology, , 0171-2004 ; ; 217
Altri autori (Persone)	KramerAchim <1939-> MerrowMartha
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Part I. Molecular and cellular basis of circadian clocks. Molecular components of the mammalian circadian clock. The epigenetic language of circadian clocks. Peripheral circadian oscillators in mammals. Cellular mechanisms of circadian pacemaking: beyond transcriptional loops. The clock in the brain: Neurons, glia and networks in daily rhythms -- Part II. Circadian control of physiology and behavior. Circadian clocks and metabolism. The circadian control of sleep. Daily regulation of hormone profiles. Circadian clocks and mood-related behaviors. Part III. Chronopharmacology and chronotherapy. Molecular Clocks in Pharmacology. Cancer chronotherapeutics: Experimental, theoretical and clinical aspects. Pharmacological modulators of the circadian clock as potential therapeutic drugs: Focus on genotoxic/anticancer therapy. Light and the human circadian clock -- Part IV. Systems biology of circadian clocks. Mathematical modeling in chronobiology. Mammalian circadian clock: the roles of transcriptional repression and delay. Genome-wide analyses of circadian systems. Proteomic approaches in circadian biology.
Sommario/riassunto	This book provides the reader with a contemporary and comprehensive overview about the molecular, cellular and system-wide principles of circadian clock regulation. Emphasis is placed on the importance of

circadian clocks for the timing of therapeutic interventions.
