

1. Record Nr.	UNINA9910424637503321
Titolo	Circadian pharmacokinetics / / edited by Baojian Wu, Danyi Lu, Dong Dong
Pubbl/distr/stampa	Singapore : , : Springer, , [2020] ©2020
ISBN	981-15-8807-4
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (VII, 253 p. 59 illus., 46 illus. in color.)
Disciplina	780
Soggetti	Pharmacology Pharmacy Medicine
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Introduction to mammalian circadian clock system -- Chapter 2. Introduction to pharmacokinetics -- Chapter 3. Circadian clock and metabolic diseases -- Chapter 4. Circadian clock and CYP metabolism -- Chapter 5. Circadian clock and non-CYP phase I metabolism -- Chapter 6. Circadian clock and phase II metabolism -- Chapter 7. Circadian clock and uptake transporters -- Chapter 8. Circadian clock and efflux transporters -- Chapter 9. Role of pharmacokinetics in chronotherapeutics -- Chapter 10. Role of non-pharmacokinetic factors in chronoefficacy.
Sommario/riassunto	This book summarizes the recent advances for the understanding of circadian clock system in the regulation of drug metabolism and pharmacokinetics. Basic knowledge in the field of circadian clock and pharmacokinetics are systemically introduced to make it easier for readers to understand the entire book's contents. The rhythmic expression of DMEs (drug-metabolizing enzymes) and transporters are summarized, and the underlying mechanisms thereof (i.e., regulation by circadian oscillators) are discussed. Typically, evidence for the DME- and transporter-mediated chronopharmacokinetics, chronotoxicity and chronoefficacy are highlighted in this book.

