

1. Record Nr.	UNINA9910820493303321
Titolo	Drug repositioning : bringing new life to shelved assets and existing drugs / / edited by Michael J. Barratt, Donald E. Frail
Pubbl/distr/stampa	Hoboken, : John Wiley & Sons, c2012
ISBN	9786613673718 9781118274392 1118274393 9781118274408 1118274407 9781280696756 1280696753 9781118274378 1118274377
Edizione	[1st ed.]
Descrizione fisica	1 online resource (499 p.)
Altri autori (Persone)	BarrattMichael J FrailDonald
Disciplina	338.4/76151
Soggetti	Pharmaceutical industry - Economic aspects Drugs - Economic aspects
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Drug repositioning : the business case and current strategies to repurpose shelved candidates and marketed drugs / John Arrowsmith and Richard Harrison -- Opportunities and challenges associated with developing additional indications for clinical development candidates and marketed drugs / Donald Frail and Michael Barratt -- Clinical and operational considerations in repositioning marketed drugs and drug candidates / Damian O'Connell, David Sequeira, and Maria Miller -- Regulatory considerations and strategies for drug repositioning / Ken Phelps -- Computational and bioinformatic strategies for drug repositioning / Richard Mazzarella and Craig Webb -- Mining scientific and clinical databases to identify novel uses for existing drugs / Christos Andronis ... [et al.] -- Predicting the polypharmacology of

drugs : identifying new uses through chemoinformatics, structural informatics and molecular modeling based approaches / Li Xie ... [et al.] -- Systematic phenotypic screening for novel synergistic combinations: a new paradigm for repositioning existing drugs / Margaret Lee -- Phenotypic in vivo screening to identify new, unpredicted indications for existing drugs and drug candidates / Michael Saporito, Christopher Lipinski, and Andrew Reaume -- Old drugs yield new discoveries : examples from the prodrug, chiral switch and site-selective deuteration strategies / Adam Morgan ... [et al.] -- Repurposing drugs for tropical diseases : case studies and open-source screening initiatives / Curtis Chong -- Drug repositioning efforts by non-profit foundations -- Business development strategies in the repositioning industry / Aris Persidis and Elizabeth Stark -- A case study in drug repositioning : Sosei / Akinori Mochizuki and Makiko Aoyama.

Sommario/riassunto

The how's and why's of successful drug repositioning Drug repositioning, also known as drug reprofiling or repurposing, has become an increasingly important part of the drug development process. This book examines the business, technical, scientific, and operational challenges and opportunities that drug repositioning offers. Readers will learn how to perform the latest experimental and computational methods that support drug repositioning, and detailed case studies throughout the book demonstrate how these methods fit within the context of a comprehensive drug repositioning s
