Record Nr. UNINA9910827925703321 Autore Kerns Edward Harvel Titolo Drug-like properties: concepts, structure design and methods: from ADME to toxicity optimization / / Edward H. Kerns and Li Di Amsterdam;; Boston:,: Academic Press,, 2008 Pubbl/distr/stampa ©2008 **ISBN** 1-281-76371-3 9786611763718 0-08-095162-7 0-08-055761-9 Edizione [1st ed.] Descrizione fisica 1 online resource (xix, 526 pages, 2 unnumbered pages of plates): illustrations (some color) Altri autori (Persone) DiLi Disciplina 615/.19 615.19 Soggetti Pharmaceutical chemistry Drugs - Structure-activity relationships Drug development Drugs - Design Lingua di pubblicazione Inglese **Formato** Materiale a stampa Monografia Livello bibliografico Nota di bibliografia Includes bibliographical references (p. 492) and index. Nota di contenuto Front Cover: Drug-like Properties: Concepts, Structure Design and Methods: from ADME to Toxicity Optimization; Copyright Page; Table of Contents; Preface; Dedication; Part 1 Introductory Concepts; Chapter 1 Introduction; Problems; References; Chapter 2 Advantages of Good Drug-like Properties; 2.1 Drug-like Properties Are an Integral Part of Drug Discovery; 2.1.1 Many Properties Are of Interest in Discovery; 2.1.2 Introduction to the Drug Discovery and Development Process: 2.1.3 Development Attrition is Reduced by Improving Drug Properties 2.1.4 Poor Drug Properties Also Cause Discovery Inefficiencies; 2.1.5 Marginal Drug Properties Cause Inefficiencies During Development; 2.1.6 Poor Properties Can Cause Poor Discovery Research; 2.2 Changing Emphasis on Properties in Discovery; 2.3 Property Profiling in

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Of the thousands of novel compounds that a drug discovery project team invents and that bind to the therapeutic target, typically only a fraction of these have sufficient ADME/Tox properties to become a drug product. Understanding ADME/Tox is critical for all drug researchers, owing to its increasing importance in advancing high quality candidates to clinical studies and the processes of drug discovery. If the properties are weak, the candidate will have a high risk of failure or be less desirable as a drug product.