

1. Record Nr.	UNINA9911019809703321
Titolo	Analogue-based drug discovery // Janos Fischer, C. Robin Ganellin
Pubbl/distr/stampa	Weinheim ; ; [Chichester], : Wiley-VCH, c2006
ISBN	9786610722761 9781280722769 1280722762 9783527608003 3527608001 9783527607495 3527607498
Descrizione fisica	1 online resource (609 p.)
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Disciplina	615.19
Soggetti	Drug development Pharmacology
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	Analogue-based Drug Discovery; Contents; Preface; Introduction; List of Contributors; Abbreviations; Part I General Aspects of Analogue-Based Drug Discovery; 1 Analogues as a Means of Discovering New Drugs; 1.1 Designing of Analogues; 1.1.1 Analogues Produced by Homologous Variations; 1.1.1.1 Homology Through Monoalkylation; 1.1.1.2 Polymethylenic Bis-Ammonium Compounds: Hexa- and Decamethonium; 1.1.1.3 Homology in Cyclic Compounds; 1.1.2 Analogues Produced by Vinylogy; 1.1.2.1 Zaprinast Benzologues; 1.1.3 Analogues Produced by Isosteric Variations 1.1.3.1 The Dominant Parameter is Structural 1.1.3.2 The Dominant Parameter is Electronic; 1.1.3.3 The Dominant Parameter is Lipophilicity; 1.1.4 Positional Isomers Produced as Analogues; 1.1.5 Optical Isomers Produced as Analogues; 1.1.5.1 Racemic Switches; 1.1.5.2 Specific Profile for Each Enantiomer; 1.1.6 Analogues Produced by Ring Transformations; 1.1.7 Twin Drugs; 1.2 The Pros and Cons of

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Sommario/riassunto

The first authoritative overview of past and current strategies for successful drug development by analog generation, this unique resource spans all important drug classes and all major therapeutic fields, including histamine antagonists, ACE inhibitors, beta blockers, opioids, quinolone antibiotics, steroids and anticancer platinum compounds. Of the 19 analog classes presented in detail, 9 are described by the scientists who discovered them. The book includes a table of the most successful drug analogs as based on the IMS ranking and compares them in terms of chemical structure, mode of
