



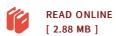
Antibiotics

By Gualerzi, Claudio / Brandi, Letizia

Condition: New. Publisher/Verlag: Wiley-VCH | Targets, Mechanisms and Resistance | Most of the antibiotics now in use have been discovered more or less by chance, and their mechanisms of action have only been elucidated after their discovery. To meet the medical need for next-generation antibiotics, a more rational approach to antibiotic development is clearly needed. Opening with a general introduction about antimicrobial drugs, their targets and the problem of antibiotic resistance, this reference systematically covers currently known antibiotic classes, their molecular mechanisms and the targets on which they act. Novel targets such as cell signaling networks, riboswitches and bacterial chaperones are covered here, alongside the latest information on the molecular mechanisms of current blockbuster antibiotics. With its broad overview of current and future antibacterial drug development, this unique reference is essential reading for anyone involved in the development and therapeutic application of novel antibiotics. | PrefaceA CHEMIST'S SURVEY OF DIFFERENT ANTIBIOTIC

 ${\tt CLASSESIntroduction Aminogly cosides Beta-Lactams Linear\ Peptides Cyclic\ Peptides Thiazolyl peptides Macrolactones Ansamy cins-$

RifamycinsTetracyclinesOxazolidinonesLincosamidesPleuromutilinsQuinol onesAminocoumarinsANTIBACTERIAL DISCOVERY: PROBLEMS AND POSSIBILITIESIntroductionWhy Is Antibacterial Discovery Difficult? The ProblemsTarget Choice: EssentialityTarget Choice: ResistanceCell EntryScreening StrategiesNatural ProductsComputational Chemistry, Virtual Screening, Structure- and Fragment-Based Drug Design (SBDD and FBDD)ConclusionsIMPACT OF MICROBIAL NATURAL PRODUCTS ON ANTIBACTERIAL DRUG DISCOVERYIntroductionNatural Products for Drug DiscoveryMicrobial Natural ProductsThe Challenge of Finding Novel Antibiotics...



Reviews

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