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# Structure-Activity Relationships among the Semisynthetic Antibiotics

Reviewed by

D. PERLMAN

# Structure Activity Relationships Among The Semisynthetic Antibiotics

**Raymond Eller Kirk**



## Structure Activity Relationships Among The Semisynthetic Antibiotics:

**Structure-activity Relationships Among the Semisynthetic Antibiotics** D. Perlman, 1977      Quantitative Structure-activity Relationships of Drugs John G. Topliss, 1983 Medicinal Chemistry Volume 19 Quantitative Structure Activity Relationships of Drugs is a critical review of the applications of various quantitative structure activity relationship QSAR methodologies in different drug therapeutic areas and discusses the results in terms of their contribution to medicinal chemistry After briefly describing the developments in QSAR research this 12 chapter volume goes on discussing the contributions of QSAR methodology in elucidating drug action and rational development of drugs against bacterial fungal viral and other parasitic infections of man Othe      *Pharmacological and Biochemical Properties of Drug Substances* Morton E. Goldberg, 1977      *Antibiotics Containing the Beta-lactam Structure* Arnold L. Demain, Nadine A. Solomon, 1983      **Acta Pharmaceutica Jugoslavica**, 1986      **CRC Handbook of Antibiotic Compounds** János Bérdy, 1980 v 1 Carbohydrate antibiotics v 2 Macrocyclic lactone lactam antibiotics v 3 Quinone and similar antibiotics v 4 pt 1 Amino acid and peptide antibiotics v 4 pt 2 Peptolide and macromolecular antibiotics v 5 Heterocyclic antibiotics v 6 Alicyclic aromatic and aliphatic compounds v 7 Miscellaneous antibiotics with unknown chemical structure v 8 pt 1 Antibiotics from higher forms of life v 8 pt 2 Antibiotics from higher forms of life v 10 General indexes v 11 pt 1 Microbial metabolites v 11 pt 2 Microbial metabolites v 12 Antibiotics from higher forms of life      **CRC Handbook of Antibiotic Compounds: pts. 1-2. Antibiotics from higher form of life : higher plants** János Bérdy, 1982      *Burger's Medicinal Chemistry and Drug Discovery, Therapeutic Agents* Manfred E. Wolff, 1996-04-26 The most comprehensive source of the latest information in drug discovery and medicinal chemistry BURGER S MEDICINAL CHEMISTRY AND DRUG DISCOVERY FIFTH EDITION Volume 2 Therapeutic Agents Renowned for its incisive systematic examination of the new classes of drugs Burger s Medicinal Chemistry and Drug Discovery provides professionals with thorough yet selective access to drug chemistry information in a convenient format Volume 2 outlines the newest generation of drugs with the potential for controlling cardiovascular gastrointestinal and tubercular disease These include Cholinergics and anticholinergics Gastric proton pump inhibitors Cardiac drugs and antihypertensive agents Diuretic and uricosuric agents Aminoglycoside macrolide glycopeptide and other antibacterial antibiotics Antimycobacterial and antifungal agents The behavior of each drug class is explored in terms of pathophysiology of the disease state molecular mechanism of action pharmacokinetics toxicity drug metabolism and structure activity relationships Special attention is given to fertile areas of further research Burger s Medicinal Chemistry and Drug Discovery Volume 2 is an essential reference for medical professionals and researchers working today Burger s Medicinal Chemistry Fifth Edition consists of five volumes Volume 1 Principles and Practice 0 471 57556 9 1995 an essential addition to the libraries of any medicinal chemist an outstanding work highly praised as a fountain of information in drug studies and research Journal of Medicinal Chemistry Volume 2 Therapeutic Agents 0 471 57557 7 1996 Volume 3 Therapeutic Agents 0

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**Handbook of Antibiotic Compounds** János Bérdy, 1982      *Biochemistry* Hector F. DeLuca, Herbert E. Paaren, Heinrich K. Schnoes, Volker Ullrich, Jürgen Reden, Walter Dürckheimer, 1979-08-01      **Molecular Biology of the Cell**, 1997

**Introduction to Medicinal Chemistry** Alex Gringauz, 1997 This work bridges the compartmentalized undergraduate organic and biochemistry and biology subjects to the pharmacology and the clinical areas a modern pharmacy practice requires The changes and constantly increasing responsibilities of today's pharmacist have dictated a restructuring of the pharmacy curriculum including individual course content This book reflects and addresses these developments This is a well written work that covers most major areas of pharmaceutical research The text is presented in a logical and concise fashion being divided into chapters based upon therapeutic topic This makes the work very useful for teaching a course in medicinal chemistry since therapeutic areas can be separately covered without having to make use of the entire book which overall contains a tremendous amount of information This book is a significant contribution to understanding what medicinal chemistry is and how this science is used to develop new therapeutic agents      *Topics in Antibiotic Chemistry*, 1980

*Specificity of Aminoglycoside Antibiotic-ribosome Interaction* Michael Isaac Recht, 1999      **Annals of the New York Academy of Sciences** Thomas Lincoln Casey, Gilbert Van Ingen, Charles Lane Poor, Edmund Otis Hovey, Ralph Winfred Tower, 2003 Records of meetings 1808 1916 in v 11 27      **Helvetica Chimica Acta**, 1990      **Beta-lactam Antibiotics** Susumu Mitsuhashi, 1981      **Folia Biologica**, 1983      **Annual Review of Biochemistry** E. E. Snell, 1981

**Encyclopedia of Chemical Technology** Raymond Eller Kirk, 1982 Alphabetical arrangement of entries that reflect current topics of interest to scientists chemists and engineers e g health safety toxicology and new materials Comprehensive coverage Each entry consists of lengthy signed article with illustrations and bibliography

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