

# DIFFERENT CLASSES OF ANTIBIOTICS - AN OVERVIEW

Top: ● COMMONLY ACT AS BACTERIOSTATIC AGENTS, RESTRICTING GROWTH & REPRODUCTION | ● COMMONLY ACT AS BACTERICIDAL AGENTS, CAUSING BACTERIAL CELL DEATH

B-LACTAMS	AMINOGLYCOSIDES	CHLORAMPHENICOL	GLYCOPETIDES	ANSAMYCINS	STREPTODRAGINS
<p>STRUCTURE: 4-membered lactam ring containing 2 carbonyl groups</p> <p><b>MODE OF ACTION:</b> Inhibit bacterial cell wall biosynthesis</p> <p><b>EXAMPLES:</b> Penicillins (such as penicillin and amoxicillin), Cephalosporins (such as cefotaxime)</p>	<p>STRUCTURE: 4-membered aminocyclitol ring</p> <p><b>MODE OF ACTION:</b> Inhibit protein synthesis</p> <p><b>EXAMPLES:</b> Neomycin, Gliomycin, streptomycin, Amikacin, paromomycin</p>	<p>STRUCTURE: Lactam ring in LPS (lipopolysaccharides)</p> <p><b>MODE OF ACTION:</b> Inhibit synthesis of proteins, preventing growth.</p> <p><b>EXAMPLES:</b> The longer a bacterial cell stays in penicillin, the more resistance due to increased resistance and replication about penicillin.</p>	<p>STRUCTURE: Glycopeptides (last resort)</p> <p><b>MODE OF ACTION:</b> Inhibit synthesis of proteins, preventing growth.</p> <p><b>EXAMPLES:</b> Vancomycin, teicoplanin, daptomycin</p>	<p>STRUCTURE: Diterpenoid lactam antibiotics, 20 carbons</p> <p><b>MODE OF ACTION:</b> Inhibit the synthesis of proteins by bacterial cell wall biosynthesis.</p> <p><b>EXAMPLES:</b> Erythromycin, cladinose, cladinose, cladinose</p>	<p>STRUCTURE: Two groups of antibiotics that act synergistically</p> <p><b>MODE OF ACTION:</b> Inhibit the synthesis of proteins by bacterial cell wall biosynthesis.</p> <p><b>EXAMPLES:</b> Prostaphorin, Prostaphorin, Prostaphorin</p>



SULFONAMIDES	TETRACYCLINES	MACROLIDES	GLYCOPOLYMERS	QUINOLONES	LIPOPePTIDES
<p>FIRST COMMERCIAL ANTIBIOTIC: sulphonamides</p> <p><b>STRUCTURE:</b> <chem>CC1=CC=C(C=C1)Nc2ccccc2</chem></p> <p><b>MODE OF ACTION:</b> Inhibit the sulfonamides group</p> <p><b>EXAMPLES:</b> Sulfamethoxazole, sulfisoxazole, sulfacetamide</p> <p><b>MODE OF ACTION:</b> The sulphonamides bind prevent their growth and multiplication. Cause allergic reactions in some patients.</p>	<p>BECOMING LESS POPULAR DUE TO DEVELOPMENT OF RESISTANCE</p> <p><b>STRUCTURE:</b> <chem>CC1=CC=C(C=C1)C2=C(C=C(C=C2)O)C(=O)C(=O)C</chem></p> <p><b>MODE OF ACTION:</b> Inhibit the adjacent cyclic hydrocarbon ring</p> <p><b>EXAMPLES:</b> Tetracycline (doxycycline, demecycline), chlortetracycline</p> <p><b>MODE OF ACTION:</b> Inhibit synthesis of proteins by bacteria, preventing growth.</p>	<p>SECOND MOST PRESCRIBED ANTIBIOTICS IN THE 1990s</p> <p><b>STRUCTURE:</b> <chem>CC1=CC=C(C=C1)C2=C(C=C(C=C2)O)C(=O)C(=O)C</chem></p> <p><b>MODE OF ACTION:</b> Inhibit the adjacent cyclic hydrocarbon ring</p> <p><b>EXAMPLES:</b> Erthromycin (aztreonam), clavulanic acid, amikacin, aztreonam, imipenem, amikacin</p> <p><b>MODE OF ACTION:</b> Inhibit protein synthesis by bacteria, preventing growth to cell death.</p>	<p>POTENT ANTIBIOTICS COMMONLY USED AS 'DRUGS OF LAST RESORT'</p> <p><b>STRUCTURE:</b> <chem>CC1=CC=C(C=C1)C2=C(C=C(C=C2)O)C(=O)C(=O)C</chem></p> <p><b>MODE OF ACTION:</b> Inhibit 3-carbonite synthetase in their structure</p> <p><b>EXAMPLES:</b> Vancomycin, teicoplanin, daptomycin</p> <p><b>MODE OF ACTION:</b> Inhibit synthesis of proteins by bacteria, preventing growth.</p>	<p>RESISTANCE EVOLVES RAPIDLY</p> <p><b>STRUCTURE:</b> <chem>CC1=CC=C(C=C1)C2=C(C=C(C=C2)O)C(=O)C(=O)C</chem></p> <p><b>MODE OF ACTION:</b> Inhibit the adjacent cyclic hydrocarbon ring and a carbonyl and group structure</p> <p><b>EXAMPLES:</b> Ciprofloxacin, levofloxacin, moxifloxacin</p> <p><b>MODE OF ACTION:</b> Inhibit synthesis of proteins by bacteria, preventing growth.</p>	<p>INSTANCES OF RESISTANCE RARE</p> <p><b>STRUCTURE:</b> <chem>CC1=CC=C(C=C1)C2=C(C=C(C=C2)O)C(=O)C(=O)C</chem></p> <p><b>MODE OF ACTION:</b> Inhibit synthesis of proteins by a peptide</p> <p><b>EXAMPLES:</b> Daptomycin (bactericidal, membrane, transmembrane)</p> <p><b>MODE OF ACTION:</b> Change membrane, not membrane. Membrane, binding to cell death.</p>

# Microbiology Antibiotics Study Guide

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**Study Guide to Accompany Microbiology, Fourth Edition** George A. Wistreich,1984 **Study Guide to Accompany Pelczar, Chan, and Krieg: Microbiology** Noel R. Krieg,Michael Joseph Pelczar,1986 **Principles of Modern Microbiology** Mark Wheelis,2008 Principles of Modern Microbiology presents an authoritative balanced introduction to microbiology for majors Ideal for the one semester course the text provides a manageable amount of detail omitting topics that were previously taught in prerequisite courses while still maintaining a level of intellectual rigor appropriate for students at this level A dynamic art program presents accurate molecular cellular images in an innovative 3 D like style while the author's clear student friendly writing style helps students grasp difficult concepts Great Experiments

boxes throughout the text describe real world experiments and allow students to gain a clear sense of the experimental process as it applies to microbiology Complete with a wealth of student and instructor resources Principles of Modern Microbiology is sure to engage and inspire majors who are looking to expand their knowledge of the many facets of microbiology **Oral and Maxillofacial Surgery** Lars Andersson,Karl-Erik Kahnberg,M. Anthony Pogrel,2012-01-10 Oral and Maxillofacial Surgery Oral and Maxillofacial Surgery Edited by Lars Andersson Karl Erik Kahnberg and M Anthony Pogrel Oral and Maxillofacial Surgery is a comprehensive reference for all trainees and specialists in oral and maxillofacial surgery oral surgery and surgical dentistry This landmark new resource draws together current research practice and developments in the field as expressed by world authorities The book s aim is to cover the full scope of oral and maxillofacial surgery incorporating recent technical and biological developments within the specialty It provides a uniquely international and contemporary approach reflecting the exciting developments of technique and instrumentation within this surgical field built on technical innovation and medical and dental research Oral and Maxillofacial Surgery coalesces impressively broad and deep coverage of this surgical specialty into a cohesive and readable resource identifying commonalities and shedding light on controversies through reasoned discussion and balanced presentation of the evidence The Editors are joined by over 50 international experts offering a truly global perspective on the full spectrum of issues in oral and maxillofacial surgery The book s coverage extends from basic principles such as patient evaluation dental anesthesia wound healing infection control and surgical instruments to coverage of the complex areas of dentoalveolar surgery oral pathologic lesions trauma implant surgery dentofacial deformities temporomandibular joint disorders and salivary gland disorders Where relevant the book provides separate coverage of topics where practice differs significantly from region to region such as general anesthesia Comprehensive reference covering full scope of oral and maxillofacial surgery Covers state of art clinical practice and the basic principles that underpin it Promotes an intellectually and internationally inclusive approach to oral and maxillofacial surgery Nearly 100 expert contributors brought together under the aegis of a renowned international editorial team Richly illustrated with medical artwork and clinical images ALSO OF INTEREST Clinical Periodontology and Implant Dentistry Fifth Edition Edited by Jan Lindhe Niklaus P Lang Thorkild Karring ISBN 9781405160995 Textbook and Color Atlas of Traumatic Injuries to the Teeth Fourth Edition Edited by Jens Andreasen Frances Andreasen Lars Andersson ISBN 9781405129541

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