



Novel Antimicrobial Agents and Strategies

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Condition: New. Publisher/Verlag: Wiley-VCH | By integrating knowledge from pharmacology, microbiology, molecular medicine, and engineering, researchers from Europe, the U.S. and Asia cover a broad spectrum of current and potential antimicrobial medications and treatments. The result is a comprehensive survey ranging from small-molecule antibiotics to antimicrobial peptides and their engineered mimetics, from enzymes to nucleic acid therapeutics, from metallic nanoparticles to photo- and sonosensitizers and to phage therapy. In each case, the therapeutic approaches are compared in terms of their mechanisms, likelihood to induce resistance, and their efficiency in a global healthcare context. Unrivalled knowledge for professionals in fundamental research, pharmaceutical development and clinical practice. | Preface THE PROBLEM OF MICROBIAL DRUG RESISTANCE Introduction History of the Origins, Development, and Use of Conventional Antibiotics Problems of Antibiotic Resistance Multiple Drug-Resistant (MDR), Extensively Drug-Resistant (XFR), and Pan-Drug-Resistant (PDR) Organisms MDR Mechanisms of Major Pathogens Antimicrobial Stewardship Programs Discussion CONVENTIONAL ANTIBIOTICS - REVITALIZED BY NEW AGENTS Introduction Conventional Antibiotics The Principle of Combination Antibiotic Therapy Antibiotic Resistance Breakers: Revitalize Conventional Antibiotics Discussion DEVELOPING NOVEL BACTERIAL TARGETS: CARBONIC ANHYDRASES AS ANTIBACTERIAL DRUG TARGETS Introduction Carbonic Anhydrases CA Inhibitors Classes of CAs Present in Bacteria Pathogenic Bacterial CAs Alpha-CAs in Pathogenic Bacteria Beta-CAs in Pathogenic Bacteria Gamma-CAs from Pathogenic Bacteria Conclusions MAGAININS - A MODEL FOR DEVELOPMENT OF EUKARYOTIC ANTIMICROBIAL PEPTIDES (AMPs) Introduction Magainins and Their Antimicrobial Action Magainins as Antibiotics Other Antimicrobial Uses of...



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