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History of Drug-Resistant Microbes -- Evolutionary Biology of Drug Resistance -- Pharmacology of Drug Resistance -- Drug Development for Drug-Resistant Pathogens -- Genetic Mechanisms of Transfer of Drug Resistance -- Mutations as a Basis of Antimicrobial Resistance -- Altered Drug Targets -- Enzymatic Modification of Drugs -- Reduced Drug Penetration -- Active Efflux Mechanism -- Biofilms -- Beta-Lactamases -- Penicillin Binding Proteins -- Aminoglycosides -- Tetracyclines and Chloramphenicol/Quinolones -- Plasmid Mediated Quinolone Resistance to Macrolides, Lincosamides, and Streptogramins -- Mechanisms of Resistance in Metronidazole -- Glycopeptide-resistance in enterococci -- Daptomycin Resistance -- Oxazolidinones -- Polymyxins/Sulfonamides and Trimethoprim -- Antimycobacterial Agents -- Amphotericin (Polyenes) -- Azoles -- Flucytosine -- Echinocandins -- Antifungal Targets, Mechanisms of Action, and Resistance in *Candida albicans* -- Herpes Nucleoside Drugs -- Influenza Drugs -- HIV Nucleoside Drugs -- HIV Non-Nucleoside Drugs -- HIV Protease Inhibitors -- HIV Entry Inhibitors -- HIV Integrase Inhibitors -- Hepatitis B -- Hepatitis C -- Agents for anaerobic protozoa -- Antimalarial Agents -- Agents for *Leishmania* -- Agents for Trypanosomes -- Agents for *Toxoplasma* -- Agents for *Cryptosporidium* -- Agents against Nematodes -- Agents against Trematodes and Cestodes -- Agents against Ectoparasites.

The two volumes included in *Antimicrobial Drug Resistance, Second Edition* is an updated, comprehensive and multidisciplinary reference covering the area of antimicrobial drug resistance in bacteria, fungi, viruses, and parasites from basic science, clinical, and epidemiological perspectives. This newly revised compendium reviews the most current research and development on drug resistance while still providing the information in the accessible format of the first edition. The first volume, *Antimicrobial Drug Resistance: Mechanisms of Drug Resistance*, is dedicated to the biological basis of drug resistance and effective avenues for drug development. With the emergence of more drug-resistant organisms, the approach to dealing with the drug resistance problem must include the research of different aspects of the mechanisms of bacterial resistance and the dissemination of resistance genes as well as research utilizing new genomic information. These approaches will permit the design of novel strategies to develop new antibiotics and preserve the effectiveness of those currently available. The second volume, *Antimicrobial Drug Resistance: Clinical and Epidemiological Aspects*, is devoted to the clinical aspects of drug resistance. Although there is evidence that restricted use of a specific antibiotic can be followed by a decrease in drug resistance to that agent, drug resistance control is not easily achieved. Thus, the infectious diseases physician requires input from the clinical microbiologist, antimicrobial stewardship personnel, and infection control specialist to make informed choices for the effective management of various strains of drug-resistant pathogens in individual patients. This 2-volume set is an important reference for students in microbiology, infectious diseases physicians, medical students, basic scientists, drug development researchers, microbiologists, epidemiologists, and public health practitioners.