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Soggetti	Pharmaceutical technology Pharmacy management Drug resistance Microbiology Pharmaceutical Sciences/Technology Pharmacoeconomics and Health Outcomes Drug Resistance Applied Microbiology Resistència als medicaments Microbiologia Llibres electrònics
Lingua di pubblicazione	Inglese
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Nota di contenuto	1) The Evolution of Microbial Defense Systems against Antimicrobial Agents -- 2) Carbapenem Resistance in Gram-negative bacilli: Mechanisms and Challenges -- 3) Influence of Antimicrobials on the Gut Microbiota -- 4) Influence of Abiotic Factors in the Emergence of Antibiotic Resistance -- 5) Polluted Coastal and Estuarine Environments – A Potential Reservoir for AMR Determinants in Various Pathogenic Bacteria -- 6) AMR in Animal Health: Issues and One Health Solutions for LMICs -- 7) Antifungal Resistance: Current Concepts -- 8) 'Planetary Health' Perspectives and Alternative Approaches to Tackle the AMR Challenge -- 9) Use of Bacterial Cell Wall Recycle Inhibitors to Combat AMR in Bacteria -- 10) Status quo of Omics Technologies in Analyzing the Genetic Mediators of Antimicrobial Resistance at Sub-MIC

Concentrations.

Sommario/riassunto

Antimicrobial resistance is a major global public health problem. This book focuses on the clinical implications of multi-drug resistant pathogens; tracking AMR and its evolutionary significance; antifungal resistance; and current and alternative treatment strategies for AMR, including antivirulent, antibiofilm and antimicrobial resistance breakers, repurposing of drugs, and probiotic therapy. Advances in antimicrobial stewardship, antibiotic policies from a global perspective and their impacts are also discussed. The book also explores the use of omics approaches to gain insights into antibacterial resistance, and includes chapters on the potential benefits of a 'One Health approach' describing the environmental and zoonotic sources of resistant genes and their effects on the global resistance pool. .
