

1. Record Nr.	UNINA9910373917603321
Autore	Sagar Sadhana
Titolo	Antibiotic Resistant Bacteria: A Challenge to Modern Medicine / / by Sadhana Sagar, Shilpa Kaistha, Amar Jyoti Das, Rajesh Kumar
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-9879-8
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XVI, 179 p. 57 illus., 45 illus. in color.)
Disciplina	616.9041
Soggetti	Drug resistance Infectious diseases Bacteriology Pharmaceutical technology Drug Resistance Infectious Diseases Pharmaceutical Sciences/Technology Resistència als medicaments Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Module 1_Emergence of antibiotic resistant bacteria -- Module 2_Impact of antibiotic resistant bacteria on different field -- Module 3_Antibiotic resistance: Pattern and Mechanisms -- Module 4_Novel strategies for overcoming of antibiotic resistant mechanisms -- Module 5_Future Prospects.
Sommario/riassunto	This book summarizes the emerging trends in the field of antibiotic resistance of various gram-negative and gram-positive bacterial species. The ability of different species of bacteria to resist the antimicrobial agent has become a global problem. As such, the book provides a comprehensive overview of the advances in our understanding of the origin and mechanism of resistance, discusses the modern concept of the biochemical and genetic basis of antibacterial resistance and highlights the clinical and economic implications of the increased prevalence of antimicrobial resistant pathogens and their ecotoxic effects. It also reviews various strategies

to curtail the emergence and examines a number of innovative therapeutic approaches, such as CRISPR, phage therapy, nanoparticles and natural antimicrobials, to combat the spread of resistance.
