

1. Record Nr.	UNINA9910767555903321
Titolo	Sustainable agriculture reviews 49 : mitigation of antimicrobial resistance vol 2. Natural and synthetic approaches // edited by Harsh Panwar, Chetan Sharma, Eric Lichtfouse
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2021] 2021
ISBN	3-030-58259-0
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XV, 436 p. 66 illus., 33 illus. in color.)
Collana	Sustainable Agriculture Reviews, , 2210-4410 ; ; 49
Disciplina	950.05
Soggetti	Drug resistance in microorganisms Antibiotics in agriculture
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Preface -- Chapter 1 Strategies for prevention and containment of antimicrobial resistance.-Chapter 2 Probiotics, Prebiotics and Synbiotics for the prevention of Antimicrobial Resistance -- Chapter 3 Plant natural products for mitigation of antibiotic resistance -- Chapter 4 Essential Oils as Potential Antimicrobial Agents -- Chapter 5 Polymeric Antimicrobials with Quaternary Ammonium Moieties -- Chapter 6 Nanoparticles: Powerful tool to mitigate antibiotic resistance -- Chapter 7 Antimicrobial Peptides and Peptidomimetics for the Control of Antibiotic Resistance -- Chapter 8 Exploiting the Achilles' heel of iron dependence in antibiotic resistant bacteria with new antimicrobial iron withdrawal agents -- Chapter 9 Potential for phage biotechnology to mitigate antimicrobial resistance in agriculture -- Chapter 10 - The Role of Vaccines in Combating Antimicrobial Resistance.
Sommario/riassunto	Antibiotics have drastically improved the health and life expectancy of humans, yet the abrupt increase of antibiotic usage for animals, agriculture and healthcare has induced antimicrobial resistance. Antimicrobial resistance is leading to resurgence of deadly infectious diseases, calling for new cures. This book presents advanced therapies based on new and complementary drugs, and alternative techniques

and strategies, such as phages, probiotics, flavonoids, essential oils, cellulose, peptides, nano delivery, iron starvation and vaccines.
