Record Nr. UNINA9910678065903321 Enzybiotics: antibiotic enzymes as drugs and therapeutics / / edited by **Titolo** Tomas G. Villa, Patricia Veiga Crespo Pubbl/distr/stampa Hoboken, NJ,: John Wiley & Sons, c2010 **ISBN** 1-282-68479-5 9786612684791 0-470-57054-7 0-470-57053-9 Descrizione fisica 1 online resource (296 p.) Altri autori (Persone) Gonzalez VillaTomas Veiga-CrespoPatricia 615.329 Disciplina 615.35 Soggetti Enzymes - Therapeutic use Antibacterial agents Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Includes index. Nota di contenuto ENZYBIOTICS; CONTENTS; PREFACE; CONTRIBUTORS; 1 ENZYBIOTICS AND THEIR POTENTIAL APPLICATIONS IN MEDICINE; 2 ADVANTAGES AND DISADVANTAGES IN THE USE OF ANTIBIOTICS OR PHAGES AS THERAPEUTIC AGENTS: 3 ENZYBIOTICS AS SELECTIVE KILLERS OF TARGET BACTERIA; 4 PHYLOGENY OF ENZYBIOTICS; 5 BACTERIOPHAGE LYSINS: THE ULTIMATE ENZYBIOTIC; 6 BACTERIOPHAGE HOLINS AND THEIR MEMBRANE-DISRUPTING ACTIVITY: 7 ANTI-STAPHYLOCOCCAL LYTIC ENZYMES: 8 MEMBRANE-TARGETED ENZYBIOTICS: 9 DESIGN OF PHAGE COCKTAILS FOR THERAPY FROM A HOST RANGE POINT OF VIEW: 10 IDENTIFYING PHAGE LYTIC ENZYMES: PAST. PRESENT. AND FUTURE 11 USE OF GENETICALLY MODIFIED PHAGES TO DELIVER SUICIDAL GENES TO TARGET BACTERIACONCLUDING REMARKS: THE FUTURE OF **ENZYBIOTICS: INDEX** Sommario/riassunto Presents the latest research and applications for a new, promising approach to fighting infectious diseases Enzybiotics is a promising way of fighting bacterial or fungal infectious diseases by using viruses or

viral-derived lysins. Drawing from the fields of medicinal chemistry,

microbiology, genetics, and biochemistry, this book presents the state of the science in enzybiotics research, fully exploring its emerging therapeutic applications. The book begins with four chapters that review the potential applications, possible advantages, and phylogeny of enzybiotics. Next, the book e