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Autore	Gianniti, Francesco
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Titolo	Antimicrobial Compounds : Current Strategies and New Alternatives // edited by Tomás G. Villa, Patricia Veiga-Crespo
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Strategies for the design and discovery of novel antibiotics using genetic engineering and genome mining -- X-ray and Neutron Scattering Foundations for the Research in Antimicrobials -- Antibacterial, Antiviral and Antifungal Activity of Essential Oils: Mechanisms and Applications -- New antimicrobial agents of plant origin -- Advances in beta-lactam antibiotics -- The Cornerstone of Nucleic Acid-affecting Antibiotics in Bacteria -- Genetic analysis and manipulation of polyene antibiotic gene clusters as a way to produce more effective antifungal compounds -- Enzybiotics: The rush towards prevention and control of multi-resistant bacteria (MRB) -- New cell wall-affecting antifungal antibiotics -- Perspectives in the research on Antimicrobial peptides -- Glycopeptides and bacterial cell walls.
Sommario/riassunto	Since penicillin and salvarsan were discovered, a number of new drugs to combat infectious diseases have been developed, but at the same time, the number of multi-resistant microorganism strains is increasing. Thus, the design of new and effective antibacterial, antiviral and antifungal agents will be a major challenge in the next years. This book reviews the current state-of-the-art in antimicrobial research and discusses new strategies for the design and discovery of novel therapies. Topics covered include the use of genetic engineering, genome mining, manipulation of gene clusters, X-ray and neutron scattering as well as the antimicrobial effects of essential oils, antimicrobial agents of plant origin, beta-lactam antibiotics, antimicrobial peptides, and cell-wall-affecting antifungal antibiotics.