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Nota di contenuto	Front Cover; Contents; Preface; Editors; Contributors; chapter 1: Antibiotics : From discovery to journey; chapter 2: Antimicrobial potential of marine actinobacteria : A review; chapter 3: Antimicrobial compounds from microorganisms : Production, characterization, and applications; chapter 4: Animal fecal actinomycetes : A new source for the discovery of drug leads; chapter 5: Potentially novel Actinobacteria-derived antibiotics from unique microenvironments; chapter 6: Antimicrobial agents from actinomycetes : Chemistry and applications chapter 7: Actinobacteria : A predominant source of antimicrobial compoundschapter 8: Novel antimicrobial and anticancer drugs from bacteria; chapter 9: Bacteriocin : A natural alternative to synthetic antibacterial antibiotics; chapter 10: Protease inhibitors from marine organisms; chapter 11: Ganoderma : A bioresource of antimicrobials; chapter 12: Marine cyanobacteria : A prolific source of antimicrobial natural products; chapter 13: Antimicrobial and natural compounds from edible mushrooms; chapter 14: Aspergillosis and its resistance : Marine natural products as future treatment chapter 15: Secondary metabolites from microorganisms isolated from

marine sponges from 2000 to 2012chapter 16: Antimicrobial compounds and their chemical entities on therapeutic herbals for agricultural and medical applications; chapter 17: Role of antimicrobial compounds from Trichoderma spp. in plant disease management; chapter 18: Antimicrobial compounds from rhizosphere bacteria and their role in plant disease management; chapter 19: Microbe-mediated synthesis of silver nanoparticles : A new drug of choice against pathogenic microorganisms
chapter 20: Nanomaterials : Source of antimicrobial productschapter 21: Platinum-based anticancer therapeutics and their mechanistic aspects : An overview; chapter 22: Marine actinobacteria as potential drug storehouses : A future perspective on antituberculosis compounds; chapter 23: Antiprotozoal agents derived from natural soil and aquatic actinobacteria : Fighting one microbe with another; chapter 24: Bioactive compounds from actinomycetes and their antiviral properties : Present trends and future prospectives; chapter 25: Novel antidermatophytic drug candidates from nature; Back Cover

Sommario/riassunto

This book explores an important topic: finding and applying alternative means of pathogenic control and treatment via natural sources in the face of increasing numbers of drug-resistant bacteria. It summarizes latest research regarding natural antimicrobial compounds derived from various plant, sponge, and other microbial sources. With collected contributions from international subject experts, it focuses primarily on natural products as a source of bioactive compounds that may be active against multidrug-resistant pathogens, providing an alternative to established antibiotics in controlling infectious diseases.