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Titolo	Chitin, chitosan, oligosaccharides and their derivatives : biological activities and applications / / Se-Kwon Kim
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front cover; Contents; Preface; Editor; About the Book; Contributors; Part I: The Sources and Production of Chitin and Chitosan Derivatives; Chapter 1: Chitin and Chitosan from Terrestrial Organisms; Chapter 2: Chitin and Chitosan from Marine Organisms; Chapter 3: Chitin and Chitosan from Microorganisms; Chapter 4: Enzymatic Production of Chitin from Crustacean Shell Waste; Chapter 5: Continuous Production of Chitin Oligosaccharides by Enzymatic Hydrolysis; Chapter 6: Biosynthesis of Cellulose-Chitosan Composite; Part II: Physical and Chemical Aspects of Chitin and Chitosan Derivatives Chapter 7: Chemical Derivatization of Chitosan for Plasmid DNA Delivery: Present and Future Chapter 8: X-Ray Diffraction Studies of Chitin, Chitosan, and Their Derivatives; Chapter 9: Mechanical Properties of Chitosan and Chitosan-Poly(Vinyl Alcohol) Blend Films; Chapter 10: Electrostatic Properties of Chitosan; Chapter 11: Applications of Mass Spectrometry to Analyze Structure and Bioactivity of Chitin Oligosaccharides; Chapter 12: The Use of Various Types of NMR and IR Spectroscopy for Structural Characterization of Chitin and Chitosan; Part III: Structural Modifications of Chitin and Chitosan Derivatives

Chapter 13: Chemical Modificationsof Chitosan Intended forBiomedical ApplicationsChapter 14: Enzymatic Modificationsof Chitin and Chitosan; Part IV: Biological Activities of Chitinand Chitosan Derivatives; Chapter 15: Antimicrobial Activityof Chitin, Chitosan,and Their Oligosaccharides; Chapter 16: Anti-Inflammatory Activityof Chitin, Chitosan, and Their Derivatives; Chapter 17: Chitosan Scaffolds forBone Regeneration; Chapter 18: Antioxidative Activity ofChitosan, Chitooligosaccharidesand Their Derivatives; Chapter 19: Effects of Chitin, Chitosan,and Their Derivatives onHuman Hemostasis Chapter 20: Antihypertensive Actions ofChitosan and Its DerivativesChapter 21: Anticancer Activity andTherapeutic Applicationsof Chitosan Nanoparticles; Chapter 22: Antidiabetic Activity andCholesterol-LoweringEffect of Chitin, Chitosan,and Their Derivatives; Part V: Biomedical Applications of Chitinand Chitosan Derivatives; Chapter 23: Chitin/ChitosanOligosaccharides: Effective Substrates for Functional Analysis of Chitinases/Chitosanases; Chapter 24: Low Molecular WeightWater-Soluble Chitosanwith Free Amine Groupfor Drug Delivery Chapter 25: Chitosan/ChitosanDerivatives as Carriersand Immunoadjuvantsin Vaccine DeliveryChapter 26: Chitosan-Conjugated DNANanoparticle DeliverySystems for Gene Therapy; Chapter 27: Chitinolytic Enzymes fromthe Moderately ThermophilicBacterium *Ralstoniasp. A-471*: Characterizationand Application; Chapter 28: Chitosan and ChitosanDerivatives as DNAand siRNA Carriers; Chapter 29: Metabolic Pathway of Chitinand Its Oligosaccharides inMarine Bacterium *Vibrios*; Chapter 30: Medical Applications of Chitinand Chitosan: Going Forward Chapter 31: Radiation Functionalizationand Applications of Chitosanand Its Derivatives

Sommario/riassunto

Biopolymers found in marine animals and plants offer tremendous, largely untapped pharmaceutical potential. Research shows that these biopolymers can be used to combat various infectious as well as inflammatory, oxidative, and carcinogenic factors. Chitin, Chitosan, Oligosaccharides and Their Derivatives: Biological Activities and Applications covers the key aspects of these therapeutically valuable biopolymers and their derivatives, namely, their properties, sources, production, and applications in food science and technology as well as biological, biomedical, ind

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ISBN	1-68123-615-X
Descrizione fisica	1 online resource (174 pages)
Collana	Research in Management
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Soggetti	Organizational change Organization - Research
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Foreword: current theory and research on transforming -- Organizations -- Feeling positive, negative, ambivalent, or apathetic : the complexity of emotional responses toward major organizational change / Marie T. Dasborough and Heath R. Gregg -- When employees are powerless and life is unfair : effects on the relationship of IMX to change commitment / Monica M. Sharif and Terri A. Scandura -- Trustworthiness in interorganizational change processes : lessons from selling assets / Miriam Flickinger and Patricia Klarner -- Integrating strategy and change management theory on mergers and acquisitions / Alannah E. Rafferty and Michael Shayne Gary -- Strategy implementation as a dynamic capability : going beyond the organizational change interface / Angelina Zubac -- The use of the cross-lagged panel correlation in organizational change and development research / Yuanmei (Elly) Qu -- About the contributors.