1. Record Nr. UNINA9910350350103321

Titolo	Oligosaccharides of Chitin and Chitosan : Bio-manufacture and Applications / / edited by Liming Zhao
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-9402-4
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XVII, 358 p. 94 illus., 49 illus. in color.)
Disciplina	610.28
Soggetti	Biotechnology Biochemistry Food science Food Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. The history of chito/chitin oligosaccharide and its monomer -- Chapter 2. Current studies of chito/chitin oligosaccharide and its monomer -- Chapter 3. Preparation of chito oligosaccharide and its monomer -- Chapter 4. Preparation of chitin oligosaccharide and its monomer -- Chapter 5. Detection and separation of chito/chitin oligosaccharides -- Chapter 6. Cleaner production guide of chito/chitin oligosaccharide and its monomer -- Chapter 7. Modification of chitin/chitosan and its oligosaccharide -- Chapter 8. Biological activities and potential application in food industry -- Chapter 9. The application of chitooligosaccharides on biomaterials -- Chapter 10. The Application of chito/chitin oligosaccharides as Plant Vaccines -- Chapter 11.The application of oligosaccharides in breeding industry.-.
Sommario/riassunto	The book provides an overview of bio-manufacturing techniques for the production, purification, characterization and modification of chito/chitin oligosaccharides and their monomers. In addition, it explores potential applications in the food, biomedical and agricultural industry on the basis of their bioactivities and biomaterial properties. Lastly, it shares a range of cutting-edge insights to help solve problems in industrial processes and promote further academic investigation. Given its scope, it offers a valuable resource for

researchers and graduate students in the fields of bioengineering, food science, biochemistry, etc.