

1. Record Nr.	UNINA9910787569303321
Titolo	Chitin and chitosan derivatives : advances in drug discovery and developments // edited by Se-Kwon Kim
Pubbl/distr/stampa	Boca Raton : , : CRC Press, , [2014] ©2014
ISBN	0-429-09943-6 1-4665-6628-0
Descrizione fisica	1 online resource (511 p.)
Disciplina	573.7/74 573.774
Soggetti	Chitin Chitosan Chitin - Derivatives
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	A CRC title.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	part I. Synthesis and characterization of chitin and chitosan derivatives -- part II. Biological activities of chitin and chitosan derivatives -- part III. Biomedical applications of chitin and chitosan derivatives.
Sommario/riassunto	A natural long-chain polymer, chitin is the main component of the cell walls of fungi, the exoskeletons of arthropods (including crustaceans and insects), the radulas of mollusks, and the beaks and internal shells of cephalopods. However, marine crustacean shells are the primary sources of the chitin derivative chitosan. Chitin and chitosan are useful for various biological and biomedical applications, although they have been limited by poor solubility in the past. Current research focuses on increasing their solubility and bioactivity through molecular modifications. The resulting derivati