

1. Record Nr.	UNINA9910383825003321
Titolo	Functional Chitosan : Drug Delivery and Biomedical Applications // edited by Sougata Jana, Subrata Jana
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-15-0263-3
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XII, 489 p. 68 illus., 46 illus. in color.)
Disciplina	615.6
Soggetti	Pharmaceutical technology Nanotechnology Polymers Biomedical engineering Medicinal chemistry Pharmaceutical Sciences/Technology Polymer Sciences Biomedical Engineering/Biotechnology Medicinal Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Chitosan and its Derivatives: a New Versatile Bio-polymer for Various Applications -- Chapter 2. Application of Chitosan in Oral Drug Delivery -- Chapter 3. Transdermal Delivery of Chitosan Based Systems -- Chapter 4 . Chitosan Based Ocular Drug Delivery systems -- Chapter 5. Functional Chitosan Carriers for Oral Colon-Specific Drug Delivery -- Chapter 6. Chitosan-based Hydrogels for Drug Delivery -- Chapter 7. Recent Advances of Chitosan based Systems for Delivery of Anticancer Drugs -- Chapter 8. Chitosan-based systems for Gene Delivery -- Chapter 9. Chitosan-based Interpenetrating Polymer Networks: Drug Delivery Application -- Chapter 10. Chitosan-based Systems in Tissue Engineering -- Chapter 11. Chitosan based Nanoformulation as Carriers of Small Molecules for Tissue Regeneration -- Chapter 12. Chitosan based Systems for Theranostic Applications -- Chapter 13. Grafted Chitosan Systems for Biomedical Applications -- Chapter 14. Chitosan-based Systems for Controlled Delivery of

Sommario/riassunto

Thanks to their unique properties, chitosan and chitosan-based materials have numerous applications in the field of biomedicine, especially in drug delivery. This book examines biomedical applications of functional chitosan, exploring the various functions and applications in the development of chitosan-based biomaterials. It also describes the chemical structure of chitosan and discusses the relationship between their structure and functions, providing a theoretical basis for the design of biomaterials. Lastly, it reviews chemically modified and composite materials of chitin and chitosan derivatives for biomedical applications, such as tissue engineering, nanomedicine, drug delivery, and gene delivery.

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