



Chitosan-Based Systems for Biopharmaceuticals: Delivery, Targeting and Polymer Therapeutics

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Chitosan is a linear polysaccharide commercially produced by the deacetylation of chitin. It is non-toxic, biodegradable, biocompatible, and acts as a bioadhesive with otherwise unstable biomolecules - making it a valuable component in the formulation of biopharmaceutical drugs.

Chitosan-Based Systems for Biopharmaceuticals provides an extensive overview of the application of chitosan and its derivatives in the development and optimisation of biopharmaceuticals. The book is divided in four different parts. Part I discusses general aspects of chitosan and its derivatives, with particular emphasis on issues related to the development of biopharmaceutical chitosan-based systems. Part II deals with the use of chitosan and derivatives in the formulation and delivery of biopharmaceuticals, and focuses on the synergistic effects between chitosan and this particular subset of pharmaceuticals. Part III discusses specific applications of chitosan and its derivatives for biopharmaceutical use. Finally, Part IV presents diverse viewpoints on different issues such as regulatory, manufacturing and toxicological requirements of chitosan and its derivatives related to the development of biopharmaceutical products, as well as their patent status, and clinical application and potential.

Topics covered include:

- chemical and technological advances in chitins and chitosans useful for the formulation of biopharmaceuticals
- physical properties of chitosan and derivatives in sol and gel states
- absorption promotion properties of chitosan and derivatives
- biocompatibility and biodegradation of chitosan and derivatives
- biological and pharmacological activity of chitosan and derivatives
- biological, chemical and physical compatibility of chitosan and biopharmaceuticals
- approaches for functional modification or crosslinking of chitosan
- use of chitosan and derivatives in conventional biopharmaceutical dosage forms
- manufacture techniques of chitosan-based microparticles and nanoparticles for biopharmaceuticals
- chitosan and derivatives for biopharmaceutical use: mucoadhesive properties
- chitosan-based systems for mucosal delivery of biopharmaceuticals
- chitosan-based delivery systems for mucosal vaccination
- chitosan-based nanoparticulates for oral delivery of biopharmaceuticals
- chitosan-based systems for ocular delivery of biopharmaceuticals
- chemical modification of chitosan for delivery of DNA and siRNA
- target-specific chitosan-based nanoparticle systems for nucleic acid delivery
- functional PEGylated chitosan systems for biopharmaceuticals
- stimuli-sensitive chitosan-based systems for biopharmaceuticals
- chitosan copolymers for biopharmaceuticals
- application of chitosan for anti-cancer biopharmaceutical delivery
- chitosan-based biopharmaceuticals scaffolds in tissue engineering and regenerative medicine
- wound healing properties of chitosan and its use in wound dressing biopharmaceuticals
- toxicological properties of chitosan and derivatives for biopharmaceutical applications
- regulatory status of chitosan and derivatives
- patentability and intellectual property issues

- quality control and good manufacturing practice
- preclinical and clinical use of chitosan and derivatives for biopharmaceuticals

Chitosan-Based Systems for Biopharmaceuticals is an important compendium of fundamental concepts, practical tools and applications of chitosan-based biopharmaceuticals for researchers in academia and industry working in drug formulation and delivery, biopharmaceuticals, medicinal chemistry, pharmacy, bioengineering and new materials development.

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