Biodrug Delivery Systems: Fundamentals, Novel Approaches and Development Drugs And The Pharmaceutical Sciences

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**Fundamental Aspects; Part 2: Biodrug Formulations; Part 3: Drug Delivery Applications: The topics covered**

### Bioadhesive Drug Delivery Systems - Edith Matzner - 1998-09-17

This invaluable review presents a comprehensive review of the basic methods for characterizing bioadhesive materials and improving vehicle targeting and uptake-offering possibilities for reformulating existing compounds to create new pharmaceutical dosage forms. The unique character of bioadhesive polymers and their ability to enhance localization of delivered agents, local bioavailability, and drug delivery efficiency is described in detail. The rapidly evolving field of bioadhesive drug delivery systems is split into three parts: Part 1: targeting a drug to the desired location for a prolonged duration. This book addresses the various relevant principles, systems, applications and advances in the field of drug delivery. Highlights the mathematical and physical/chemical principles related to strategies drugs release and its possible modifications.

### Bioadhesive Drug Delivery Systems - Vincent M. Lenaerts - 1989-11-30

This comprehensively written text covers, in-depth, all aspects of bioadhesive systems. Bioadhesive systems are introduced in Part I of this book, which focuses on the properties, mechanisms, and applications of bioadhesive systems. In Part II, the book presents the basic methods for characterizing bioadhesive systems and discusses the physicochemical models, applications and the systems will be discussed. Addresses the principles, systems, applications and advances in the field of drug delivery. This unique reference is ideal for traditional bioadhesive strategies and novel clinical applications, Bioadhesive Drug Delivery Systems discusses methods to measure cell-surface interactions, and describes methods to facilitate drug delivery. This book also discusses chapters written by eminent researchers from many parts of the globe is divided into three parts: Part 1: understanding the phenomenon of bioadhesion i.e. its theories or mechanism(s) are of critical importance in drug delivery. This invaluable reference presents a comprehensive review of the basic methods for characterizing bioadhesive materials and improving vehicle targeting and uptake-offering possibilities for reformulating existing compounds to create new pharmaceutical dosage forms. The unique character of bioadhesive polymers and their ability to enhance localization of delivered agents, local bioavailability, and drug delivery efficiency is described in detail. The rapidly evolving field of bioadhesive drug delivery systems is split into three parts: Part 1: targeting a drug to the desired location for a prolonged duration. This book addresses the various relevant principles, systems, applications and advances in the field of drug delivery. Highlights the mathematical and physical/chemical principles related to strategies drugs release and its possible modifications.

### Bioadhesive Drug Delivery Systems - Monika Schäfer-Korting - 2010-03-10

This comprehensive book covers all aspects of bioadhesive drug delivery systems. Bioadhesive systems are presently playing a major role in the field because of their ability to maintain a dosage form at a precise body-site for a prolonged period of time over which the active principle is progressively released. Included in this book are descriptions of different materials and their pharmaceutical applications. Also included are bioadhesive drug delivery systems, and drug targeting. The book also discusses chapters written by eminent researchers from many parts of the globe is divided into three parts: Part 1: understanding the phenomenon of bioadhesion i.e. its theories or mechanism(s) are of critical importance in drug delivery. This invaluable reference presents a comprehensive review of the basic methods for characterizing bioadhesive materials and improving vehicle targeting and uptake-offering possibilities for reformulating existing compounds to create new pharmaceutical dosage forms. The unique character of bioadhesive polymers and their ability to enhance localization of delivered agents, local bioavailability, and drug delivery efficiency is described in detail. The rapidly evolving field of bioadhesive drug delivery systems is split into three parts: Part 1: targeting a drug to the desired location for a prolonged duration. This book addresses the various relevant principles, systems, applications and advances in the field of drug delivery. Highlights the mathematical and physical/chemical principles related to strategies drugs release and its possible modifications.

### Bioadhesive Drug Delivery Systems - Debora Estrella - 2015-06-16

Since the earliest dosage forms to modern drug delivery systems, came a great development and growth of knowledge with respect to drug delivery. Strategies to Modify the Drug Release from Pharmaceutical Systems will address principles, systems, applications and advances in the field of drug delivery. Highlights the mathematical and physical/chemical principles related to strategies drugs release and its possible modifications.

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by design, drug targeting, and more issues involved in drug and gene delivery systems. They discuss the importance of nanotechnology in drug delivery systems. They also explore the use of nanoparticles in drug delivery and highlight the potential benefits of this approach. The book is divided into three parts: (1) the fundamentals of drug delivery, (2) the design, synthesis, and characterization of polymer drug delivery systems, and (3) strategies for targeting and controlling the release of drugs. This comprehensive resource is a valuable tool for researchers and practitioners in the field of drug delivery.
Design of Controlled Release Drug Delivery Systems - Xiaoling Li - 2005-11-24

The goal of every drug delivery system is to deliver the precise amount of a drug at a pre-programmed rate to the desired site and in the desired manner. In the industry, the design of pharmaceutical excipients and pharmaceutical engineers, this resource combines physical-chemical properties with physiological processes to facilitate the design of systems that will deliver medication at the time and place it is most needed.

Inhaler Design - Polina Prokopovich - 2013-04-23

Given their direct impact on the health and quality of life for millions, inhalers represent a major turning point in the history of modern medicine. Inhaler design includes practical and, of course, engineering aspects. Fundamental design and drug delivery provides readers with an introduction to the fundamentals of inhaler technology, with a comprehensive discussion of the history of inhalers as well as a discussion of the composition and mechanisms of the inhalation process. Inhalation mechanisms and development of inhaler devices as well as drug formulations for inhalers. The treatment of asthma is also discussed. Part two reviews recent developments in drug formulation and nanotechnology for inhaler devices emerging inhaler technology and possible future trends. Inhaler design: fundamentals, design and drug delivery is an essential design guide for good industrial practice, and will be an invaluable resource for those researching and practicing conditions such as asthma; and those developing and manufacturing inhalation devices. Inhaler design introduces the fundamentals of inhaler technology - discuss the history of inhalers as well as current research and development of inhaler devices, drug formulations and discusses the treatment of asthma.

Nanostructures for Novel Therapy - Denis Ficai - 2017-02-25

Nanostructures have the potential to change every part of our lives. Today, nanostructure-based products are widely available. This handbook features contributions from a team of expert authors representing the many disciplines within science, engineering, and technology. Exploring novel materials or emerging technologies, this handbook presents the chemical and biological interactions that can be used to control the formation of nanostructured materials that includes applications of nanostructured materials for wound healing in plastic surgery and stem cell therapy. The book explores the promise of more effective therapy through the use of nanostructured materials, while also assessing the challenges their use might pose from both an economic and regulatory perspective. The book examines how nanostructures might be able to target specific diseases and disorders with great benefit to researchers, providing a greater understanding of the different ways nanostructured materials could improve medical treatment, along with a discussion of the obstacles that need to be overcome in order to guarantee the future of these novel treatments.

Inhaler Devices: Fundamentals, Design and Drug Delivery - Avinash Hosmani - 2013

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Nanofibres in Drug Delivery - Garen R. Williams - 2018-09-17

In recent years there has been an explosion of interest in the production of nanoscale fibres for drug delivery and tissue engineering. The chapter is aimed to introduce the reader to the fundamentals of nanofibres in drug delivery, and to explain how to prepare fibres in the laboratory. This book begins with a brief introduction to the field of nanofibres for drug delivery, before introducing the techniques that can be used for fibre production and explain briefly the theory behind them. They discuss the experimental implementation of fibre production through the most possible techniques for producing nanostructured fibres, with a focus on minimizing side effects. As they do so, they offer advice from their own experience of fibre production, and uses examples from current literature to show how each particular type of fibre can be applied to drug delivery.

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Advanced Materials in Drug Release and Drug Delivery Systems - Kateryna Winiuk - 2009-03-03

Designing controlled drug delivery systems that can be manipulated to deliver the drug in the close proximity to the mucosa membrane with enhanced contact time and contact area. Thus the technology has been successful to benefit outcomes like bioavailability enhancement along with the extended release. The book gives the idea about the basic fundamentals of Mucoadhesive systems. From the presented work, one may get information about the properties of mucoadhesive polymers. One may study the formulation of different mucoadhesive drug delivery systems like tablet, suspension and microparticles.

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Design of Controlled Release Drug Delivery Systems - Arvindh Hamani - 2013

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Chapter 4: Delivery Systems

This chapter focuses on the importance of delivery systems in biopharmaceuticals. It discusses the role of delivery systems in ensuring the appropriate delivery of drugs to their targets. The chapter also covers the development of new delivery systems and their impact on the pharmaceutical industry.

Chapter 5: Future Directions

The final chapter provides an overview of future trends in biopharmaceuticals. It discusses the potential impact of new technologies on the industry and the challenges that will need to be addressed in the future.

This book provides a comprehensive overview of the field of biopharmaceuticals, covering a wide range of topics from delivery systems to future directions. It is an essential resource for researchers, practitioners, and students in the field of biopharmaceuticals.
This book collects reviews and original articles from eminent experts working in the interdisciplinary area of nanotechnology use in drug delivery. From their direct and recent experience, the readers can achieve a wide vision on the new and ongoing potentialities of nanotechnology application of drug delivery. Since the advent of analytical techniques and capabilities to measure particle sizes in nanometer ranges, there has been tremendous interest in the use of nanoparticles for more efficient methods of drug delivery. On the other hand, this reference discusses advances in design, optimization, and adaptation of gene delivery systems for the treatment of cancer, cardiovascular, pulmonary, genetic, and infectious diseases, and considers assessment and review procedures involved in the development of gene-based pharmaceuticals.