



# Mucoadhesive Materials And Drug Delivery Systems

**Guo Hui Yang**

## **Mucoadhesive Materials And Drug Delivery Systems:**

**Mucoadhesive Materials and Drug Delivery Systems** Vitaliy V. Khutoryanskiy,2014-06-12 Mucoadhesion defined as attachment of synthetic or natural materials to mucosal tissues has been widely exploited in pharmaceutical forms This multi author book provides an up to date account of current research on mucoadhesive materials and drug delivery systems The introductory section describes the structure and physiology of various mucosal surfaces oral nasal ocular gastrointestinal and vaginal mucosa This is followed by chapters on the various methods used to study mucoadhesion and to characterise mucoadhesive properties of various dosage forms The final section will summarise information on traditional and novel types of mucoadhesive materials such as chitosan thiomers and liposome based formulations This book is unique as there is currently no modern book considering mucoadhesion all other existing books on the topic are either narrowly focused or more than 10 years old Furthermore each contributor offers specialist perspectives from a variety of global locations in both industrial and academic research centres

TEXT BOOK OF NOVEL DRUG DELIVERY SYSTEM Dr. Ritesh Kumar, Dr.

Jashanjit Singh, Dr.Ch.S.Vijayavani, Md Iftekhar Ahmad, Dr. Amit Kumar Taneja,2025-04-19 Textbook of Novel Drug Delivery Systems is a comprehensive guide that explores the latest advancements in drug delivery technologies It provides in depth knowledge on controlled drug delivery systems including various formulation approaches based on diffusion dissolution and ion exchange principles The book covers the essential role of polymers in drug delivery discussing their classification properties and applications in controlled release systems Microencapsulation is detailed with its advantages disadvantages methods and applications making it a crucial topic for pharmaceutical formulation scientists The mucosal drug delivery system section explains bioadhesion principles and buccal delivery considerations Implantable drug delivery systems including implants and osmotic pumps are thoroughly examined for their benefits and limitations The transdermal drug delivery system chapter discusses skin permeation mechanisms enhancers and formulation approaches Gastroretentive drug delivery systems are explored covering floating high density and gastroadhesive methods Nasopulmonary drug delivery is explained with a focus on inhaler formulations including dry powders metered doses nasal sprays and nebulizers Targeted drug delivery introduces liposomes niosomes nanoparticles and monoclonal antibodies highlighting their applications in modern medicine The ocular drug delivery system section provides insights into intraocular barriers and advanced formulations like ocuserts Intrauterine drug delivery systems including intrauterine devices IUDs are discussed with their applications and development considerations This book serves as an essential resource for pharmacy students researchers and pharmaceutical professionals offering both theoretical and practical insights into novel drug delivery technologies It bridges the gap between traditional drug formulations and cutting edge advancements contributing to the development of more effective and patient friendly therapies

TEXT BOOK OF DRUG DELIVERY SYSTEM Mrs.Meghana Shimpi

,Mrs.Shivani Kala ,Ms.Gayatri Dahariya ,Ms. Deeksha Pathak ,Ms. Arti Solanki,2025-01-02 The Textbook of Drug Delivery

Systems is a comprehensive guide that delves into the innovative and diverse world of pharmaceutical drug delivery technologies. Designed for students, researchers, and professionals in pharmacy and related fields, this book provides in-depth insights into the mechanisms, principles, and advancements in drug delivery systems. It begins with an extensive exploration of Sustained Release (SR) and Controlled Release (CR) formulations, discussing their concepts, advantages, disadvantages, and the factors influencing their efficacy. The book highlights the importance of personalized medicine through customized dosage forms, 3D printing, and bioelectronic approaches, addressing the growing need for individualized patient care. It thoroughly examines rate-controlled systems, including their mechanisms, activation methods, and feedback regulation. The specialized gastro-retentive systems and buccal drug delivery systems are also covered, showcasing innovations to enhance drug absorption and patient convenience. Key sections focus on ocular, transdermal, protein, peptide, and vaccine delivery systems, presenting barriers to effective delivery methods to overcome them and formulation strategies. Emphasis is placed on modern technologies like telepharmacy and mucosal vaccine delivery, paving the way for futuristic healthcare applications. Rich in theory and practical approaches, the book also discusses polymers' role in drug delivery, providing a foundation for designing efficient systems. With clear concepts, updated methodologies, and an interdisciplinary approach, this textbook serves as an invaluable resource for mastering the art and science of drug delivery.

### **Emerging Paradigms in Delivery Systems for**

**Antitubercular Therapy** Rajeev Sharma, Neeraj Mishra, Laxmikant Gautam, S.P. Vyas, 2025-04-23. *Emerging Paradigms in Delivery Systems for Antitubercular Therapy* provides an up-to-date and thorough overview of the state of the art of concepts, design, and recent advances in nanomedicines and nanobiotechnology-based strategies for the treatment of tuberculosis. The book enables researchers to prepare a variety of nanotechnology-based strategies, investigate their properties, and discover their uses and applications in antitubercular therapy, focusing on advanced nanomaterials that are utilized for encapsulation of nucleic acid, mRNA, DNA, and tuberculosis vaccination. This book covers all major topics that have shaped the development of nanomedicine and propelled it to its current place at the forefront of nanotechnology-based treatment innovation. It will be a welcomed resource for researchers and readers with more and more challenging therapy and biologicals with their possible modifications to be used for the effective therapy of tuberculosis. Focuses on advanced nanomaterials that are utilized for encapsulation of nucleic acid, mRNA, DNA, and tuberculosis vaccination. Covers all major topics that have shaped the development of nanomedicine and propelled it to its current place at the forefront of nanotechnology-based treatment innovation. Provides assistance to researchers and readers with more and more challenging therapy and biologicals with their possible modifications to be used for effective therapies in tuberculosis.

### **Pharmaceutical and Biomedical Materials and**

**Technology** Sontaya Limmatvapirat, Suchada Piriyaprasarth, Prasopchai Patrojanasophon, 2019-08-29. *International Conference on Pharmaceutical Sciences and Technology (PST 2019)* Selected peer-reviewed papers from the International conference and exhibition on Pharmaceutical Sciences and Technology (PST 2019) June 18-19, 2019, Bangkok, Thailand.

**TEXT BOOK OF NOVEL DRUG DELIVERY SYSTEM** Prof. (Dr.) M. Shamshath Begum, Dr. S. M. Shaheedha, Dr. P. Geetha, Dr. G. Gopi, Dr. D. Bharathi, Anugeetha Thacheril, 2025-05-16 The Text Book of Novel Drug Delivery Systems is a comprehensive guide that delves into the advanced methodologies and technologies used in the design and development of innovative drug delivery systems. It begins with a detailed exploration of controlled drug delivery systems highlighting the principles of diffusion, dissolution, and ion exchange, and discussing the physicochemical and biological properties essential for effective formulation. The book then shifts focus to polymers, emphasizing their classifications, properties, and critical role in ensuring controlled and sustained drug release. Microencapsulation is explored in depth, including the types of microspheres, microcapsules, and techniques employed to achieve precise drug targeting and stability. The text also examines mucosal drug delivery systems, detailing mucoadhesion principles and formulation considerations, particularly for buccal routes. Readers will gain insights into implantable systems, including concepts of osmotic pumps and long-term implants. The section on transdermal systems offers an understanding of skin permeation, formulation components, and enhancement strategies. The book comprehensively covers gastroretentive systems, offering multiple approaches like floating and adhesive systems to prolong gastric residence time. The nasopulmonary delivery chapter outlines formulation strategies for inhalers, sprays, and nebulizers. An in-depth look at targeted delivery systems introduces liposomes, niosomes, nanoparticles, and monoclonal antibodies, explaining their applications in delivering drugs precisely to disease sites. Lastly, ocular and intrauterine delivery systems are discussed with emphasis on overcoming biological barriers and designing effective formulations such as ocuserts and intrauterine devices (IUDs). This textbook is ideal for pharmacy students, researchers, and professionals seeking a foundational and applied understanding of modern drug delivery technologies.

***Mussel-inspired Mucoadhesive Hydrogels for Drug Delivery*** Jinke Xu, 2015 A controlled drug delivery system can deliver a drug with the right dose, control its release rate and time, and target the site of action in the body. Chitosan (CS) and its derivatives have been extensively used in drug delivery. Additionally, CS is mildly mucoadhesive, i.e., it can stick to mucus. Many drug delivery routes, such as oral, buccal, and rectal delivery, exploit the presence of a mucosa to deliver the drug. Drug delivery systems made from mucoadhesive materials can stick to the mucosa, thus prolonging the retention of drugs on site and allowing a sustained release of the loaded drugs. CS-based mucoadhesive drug delivery systems have shown improved therapeutic effects in many applications. Recently, the strong adhesion of marine mussels under the sea inspired the development of several water-resistant adhesives. The catechol groups present in large amounts in the mussel adhesive proteins contribute to the outstanding adhesion of mussels on many different surfaces. Catechols also interact with biological surfaces, including mucus. These findings inspired us to use catechol-CS mucoadhesive systems to facilitate drug delivery. This was the first time that catechol groups were used to improve the mucoadhesion and thus the efficacy of a drug delivery system. In this work, we developed three types of catechol-containing CS hydrogels as mucoadhesive drug delivery systems for oral, buccal, and rectal

drug delivery We introduced catechols into CS hydrogels by simple physical mixing or covalent conjugation We assessed the efficacy of catechol containing hydrogels as drug delivery systems and their mucoadhesion both in vitro and in vivo Our first study showed that simple physical mixing of hydrocaffeic acid in CS based hydrogels enhanced the mucoadhesion of the gels The electrostatic interaction between hydrocaffeic acid and CS caused a slow release of this molecule from the CS hydrogel and enhanced the adhesion of CS on mucus The mucoadhesion of this hydrogel can be further increased in the presence of oxidizing agents during the contact with mucin However if the gel is oxidized before contacting mucin there is no mucoadhesion enhancement In our second study we developed a chemically conjugated catechol CS Cat CS hydrogel crosslinked by genipin In this case the immobilized catechols were not released from the gel This system showed good mechanical properties and great mucoadhesion both in vitro and in vivo Using this mucoadhesive hydrogel we succeeded in delivering lidocaine to rabbits through the buccal mucosa Differently from gels made with unmodified CS this system established an intimate contact with the rabbit buccal mucosa achieved a sustained release of the drug and maintained the drug concentration in the blood at a relatively high level during the 2 h experiment In our third study we developed an injectable sulfasalazine SSZ loaded Cat CS hydrogel formulation for rectal treatment of ulcerative colitis UC In UC mice rectal SSZ Cat CS formulation showed better therapeutic effects with only 50% of the normal oral dose Most importantly this formulation reduced the plasma levels of the SSZ metabolite sulfapyridine which is associated with many side effects of SSZ and toxicity Thus these results proved the great potential of mucoadhesive SSZ Cat CS rectal formulation in UC treatment Overall we developed mussel inspired catechol containing CS hydrogels that improved the mucoadhesion and thus the drug efficacy and therapeutic effects in drug delivery

### **Mucoadhesive Materials for Drug Delivery** Graham Hunt, 1988

Concise Encyclopedia of Biomedical Polymers and Polymeric Biomaterials Munmaya Mishra, 2017-08-16 The Concise Encyclopedia of Biomedical Polymers and Polymeric Biomaterials presents new and selected content from the 11 volume Biomedical Polymers and Polymeric Biomaterials Encyclopedia The carefully culled content includes groundbreaking work from the earlier published work as well as exclusive online material added since its publication in print A diverse and global team of renowned scientists provide cutting edge information concerning polymers and polymeric biomaterials Acknowledging the evolving nature of the field the encyclopedia also features newly added content in areas such as tissue engineering tissue repair and reconstruction and biomimetic materials

*Materials Science, Machinery and Energy Engineering* Guo Hui Yang, 2013-12-24 Selected peer reviewed papers from the 2013 International Conference on Materials Science Machinery and Energy Engineering MSMEE 2013 December 24 25 2013 Hong Kong

**Drug Delivery Systems** Vasant V. Ranade, Mannfred A. Hollinger, 1995-10-17 Drug delivery technologies represent a vast and vital area of Research and Development The demand for innovative drug delivery systems continues to grow and this growth continues to drive new developments Building on the foundation provided by the first edition Drug Delivery Systems Second Edition covers the latest

developments in both industry and academia New in this edition Chapter focusing on novel technologies and their global outlook Coverage of electronically controlled drug delivery Macrocapsules and nanoparticles in drug targeting Drug nanocrystals and other new delivery systems Updated information on liposomes as carriers Written in a straightforward clear and concise manner the author provides a global perspective on current and future advances and market opportunities Drug Delivery Systems Second Edition answers the need for comprehensive information in a single resource for anyone venturing into this area of drug development The book contains black and white illustrations

### **Design and Evaluation of an**

**Ocular Mucoadhesive Delivery System** David L. Middleton,1989      **Biopolymer-based Ocular Drug Delivery Systems**

Weipeng Liu,2008      **Asthma** A. Louise Sugden,Joseph Chamberlain,Sugden. Louise,1997 Despite the great successes in recent years in the treatment of asthma the problems of this disease are now affecting more people than ever before Such is the importance of this disease that the British Pharmaceutical Conference 1996 devoted two full days to the matter exploring the scientific background the current medical treatment and public attitudes New advances in understanding the disease and new drug developments were described by a range of experts from the pharmaceutical industry and from clinical academics The considerable advances being made in understanding the biochemistry of asthma with the new discipline of biotechnology playing a major role were also discussed The papers published in this collection are essential reading for all those who wish to stay abreast of progress in this challenging field

**Drug Delivery Systems** Peter Johnson,John Gareth Lloyd-Jones,1987

**Advanced Biomaterials** ,2007      **Bioadhesive Drug Delivery Systems** Edith Mathiowitz,Donald E. Chickering III,Claus-Michael Lehr,1999-07-13 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 pharmaceuticals at lower development costs Evaluates the unique carrier characteristics of bioadhesive polymers and their power to enhance localization of delivered agents local bioavailability and drug absorption and transport Written by over 50 international experts and reflecting broad knowledge of both traditional bioadhesive strategies and novel clinical applications Bioadhesive Drug Delivery Systems discusses mechanical and chemical bonding polymer mucus interactions the effect of surface energy in bioadhesion polymer hydration and mucus rheology analyzes biochemical properties of mucus and glycoproteins cell adhesion molecules and cellular interaction with two and three dimensional surfaces covers microbalances and magnetic force transducers atomic force microscopy direct measurements of molecular level adhesions and methods to measure cell cell interactions examines bioadhesive carriers diffusion or penetration enhancers and lectin targeted vehicles describes vaginal nasal buccal ocular and transdermal drug delivery reviews bioadhesive interactions with the mucosal tissues of the eye and mouth and those in the respiratory urinary and gastrointestinal tracts explores issues of product development clinical testing and production and more Amply referenced with over 1400 bibliographic citations and illustrated with more than 300 drawings photographs tables and display equations

Bioadhesive Drug Delivery Systems serves as a sound basis for innovation in bioadhesive systems and an excellent introduction to the subject. This unique reference is ideal for pharmaceutical scientists and technologists, chemical polymer and plastics engineers, biochemists, physical surface and colloid chemists, biologists, and upper level undergraduate and graduate students in these disciplines.

**Bioadhesives in Drug Delivery** K. L. Mittal, Inderbir Singh, Bakshi, Jasjit Kaur, Narang, 2020-06-16. This important and unique book comprises 12 chapters divided into three parts examining the fundamental aspects of bioadhesive formulations and drug delivery applications. Understanding the phenomenon of bioadhesion, i.e., its theories or mechanisms, is of critical importance in developing optimum bioadhesive polymers used in bioadhesives. Such bioadhesive polymers are the key for exhibiting the process of bioadhesion, controlled sustained release of drugs and drug targeting. The use of bioadhesives restricts the delivery system to the site of interest and thus offers a useful and efficient technique for targeting a drug to the desired location for a prolonged duration. This book addresses the various relevant aspects of bioadhesives in drug delivery in an easily accessible and unified manner. The book, containing 12 chapters written by eminent researchers from many parts of the globe, is divided into three parts: Part 1: Fundamental Aspects, Part 2: Bioadhesive Formulations, and Part 3: Drug Delivery Applications. The topics covered include Theories and mechanisms of bioadhesion, bioadhesive polymers for drug delivery applications, methods for characterization of bioadhesiveness of drug delivery systems, bioadhesive films and drug delivery applications, bioadhesive nanoparticles, bioadhesive hydrogels and applications, ocular bioadhesive drug delivery systems, buccal bioadhesive drug delivery systems, gastrointestinal bioadhesive drug delivery systems, nasal bioadhesive drug delivery systems, vaginal drug delivery systems, pulmonary bioadhesive drug delivery systems.

**Handbook of Biodegradable Polymeric Materials and Their Applications** Surya Mallapragada, Balaji Narasimhan, 2006. **Journal of Scientific and Industrial Research**, 2005.

Embark on a breathtaking journey through nature and adventure with this mesmerizing ebook, **Mucoadhesive Materials And Drug Delivery Systems**. This immersive experience, available for download in a PDF format (\*), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

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