Bioadhesive Drug Delivery Systems Fundamentals Novel Approaches And Development Drugs And The Pharmaceutical Sciences

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Bioadhesive Drug Delivery Systems Fundamentals

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.

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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

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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

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covers microbalances and magnetic force transducers, atomic force microscopy, direct measurements of molecular level adhesions, and methods to measure cell-cell interactions. examines bioadhesive...

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9780824719951 - Bioadhesive Drug Delivery Systems ...

Novel concepts and strategies for bioadhesive drug delivery systems --Multifunctional polymers for the peroral delivery of peptide drugs --Chitosan and chitosan derivatives as absorption enhancers for peptide drugs across mucosal epithelia --Plant lectins for oral drug delivery to different parts of the gastrointestinal tract --Bacterial invasion factors and lectins as second-generation bioadhesives --Novel PEG-containing acrylate copolymers with improved mucoadhesive properties ...

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Bioadhesive Drug Delivery Systems: Fundamentals, Novel ...

Abstract: Bio adhesive systems have gained growing interest due to its ability to localize the drug delivery along with. sustained release. This leads to reduction of side-effects due to non-spec...

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A buccal bioadhesive drug delivery system has the potential to overcome these problems. This system protects the drug from enzymes in the liver and GI tract. Drugs given by this route show ...

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Bioadhesion may be defined as the state in which two materials, at least one of which is biological in nature, are held together for extended periods of time by interfacial forces. The rationale being that the formulation will be ‘held’ on a biological surface for localized drug delivery. The API will be released close to the site of action with a consequent enhancement of bioavailability.

It is a phenomenon of interfacial molecular attractive forces amongst the surfaces of the ...

Bioadhesive drug delivery system - LinkedIn SlideShare

For topical drug delivery, bioadhesive hydrogels are ideal as they can provide extended release of therapeutic agents such as antimicrobials to the oral mucosa. Hydrogels are three-dimensional polymer networks that have unique properties that can be modified to design a delivery system with the desired properties for treating infections (29,– 32).

Development and In Vivo Evaluation of a Novel Histatin-5 ...

Nielsen LS, Schubert L, Hansen J. Bioadhesive drug delivery systems: I. characterisation of mucoadhesive properties of systems based on glyceryl mono-oleate and glyceryl monolinoleate. Eur J Pharma Sci. 1998; 6 (3):231–239.

Design, characterization, and biological evaluation of ...

CONCLUSIONImprovements in bioadhesive-based drug delivery and, inparticular, the delivery of novel, highly-effective and mucosa-compatible polymer, are creating new commercial and clinicalopportunities for delivering narrow absorption window drugs atthe target sites to maximise their usefulness.Mucoadhesive drug delivery systems are being studied fromdifferent angles, including development of novel mucoadhesives,design of the device, mechanisms of mucoadhesion andpermeation enhancement.

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Pulmonary drug delivery routes present several advantages compared to conventional drug administration, such as fewer systemic side effects than oral or parenteral administration. Many studies show drug delivery systems that are intended for pulmonary administration. However, the time that these systems stay at the mucose surfaces is limited.

Chitosan and inhalers: a bioadhesive polymer for pulmonary ...

Mucoadhesive drug delivery systems:-Mucoadhesive drug

delivery systems interact with the mucus layer covering the mucosal epithelial surface, and mucin molecules and increase the residence time of ...

Mucoadhesive Drug Delivery System

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