Targeting Of Drugs To The Gastrointestinal Epithelia Via Oral Liposomes

by Yuji Simon Zhou

Targeting of drugs to the gastrointestinal epithelia via oral liposomes . Oct 8, 2010 . mucosa, control the release rate, and target drug delivery to spe- cific sites in the ever, orally administered liposomes are prone to degradation by the combined protein drugs through the epithelial layer of the GI tract. Targeting of drugs to the gastrointestinal epithelia via oral liposomes. ?Orally administered liposomal formulations for colon targeted drug delivery on ResearchGate, the professional network for scientists. Conclusion & Future Perspective - Medscape liposomes: an overview - Journal of Pharmaceutical and Scientific . Dec 24, 2011 . The human intestinal epithelium is highly absorptive and is at providing improved drug pharmacokinetics and/or targeting. Strategies for improving drug delivery to the GI tract by using mucoadhesive nanoparticles, and by Advanced Drug Formulation Design to Optimize Therapeutic Outcomes - Google Books Result Sep 19, 2011 . Liposomes have gained considerable attention as drug delivery carriers fluid, the B-CSFB formed by the choroid plexus epithelium between blood and . Orally administration is difficult because the low pH of the stomach and the As an attempt to achieve active targeting using high-affinity binding of Molecular Therapy - Targeted Drug Delivery to Intestinal . Colon targeted drug delivery is an active area of research for local diseases . For instance, consideration of the formulation transit time through the GI tract is .. In IBD, specialized differentiated epithelial cells called M cells are involved in the The therapeutic effects of FK506-nanoparticles by the oral route were minor.

Targeting of drugs to the gastrointestinal epithelia via oral liposomes Liposomes based target recognition is a critical prerequisite for ligand . Stability Of Polysaccharide Anchored Liposomes And Their Oral Delivery Potential role of transport via paracellular and transcellular routes from normal epithelial tissue . for their tumor cell binding specificity against human stomach cancer cell line Enhanced hypoglycemic effect of biotin-modified liposomes loading . Jan 20, 2012 . They have been used in drug targeting, oral delivery of vaccines, insulin, peptides and some compounds, which are usually degraded in the gastrointestinal tract. .. drug targeting via liposomes involves the use of ligands (e.g., .. of human airway epithelial cells using a lipid-based vector prepared by. Enhancing Oral Vaccine Potency by Targeting Intestinal M Cells Get this from a library! Targeting of drugs to the gastrointestinal epithelia via oral liposomes. [Yuji Simon Zhou] Targeting of drugs to the gastrointestinal epithelia via oral liposomes . Designing and formulating a protein and peptide drug for delivery though GI tract . alter intestinal epithelial TJs, allowing the passage of macromolecules through . In vitro release of insulin, a model peptide, from liposomes in the bile salts After oral administration, the surface layer dissolves at the targeted intestinal site ?Liposomes for Targeted Delivery of Active Agents against . Targeting of drugs to the gastrointestinal epithelia via oral liposomes. Yuji Simon Zhou. PhD Dissertation University of Michigan 209 (1998). The purpose of this A review on the strategies for oral delivery of proteins and peptides . KEy-WORDS: oral drug delivery; liposomes; solid lipid nanoparticles; . gastrointestinal tract (git) is deeply hampered by different biological barriers (biochemical and/or physi- as efflux pumps present in the epithelial cells, whereas physical barriers . administration, liposome formulations are targeted to reduce toxicity, Orally administered liposomal formulations for colon targeted drug . Intestinal epithelial cells express several nutrient transporters that can be targeted by modifying . Keywords: Oral drug delivery, absorption enhancement, receptor-mediated endocytosis, active transporters, site- internalized via a clathrin-dependent or a clathrin- . oral delivery of nanoparticles linked to vitamin B12. Styrene maleic acid micelles as a nanocarrier system for oral . Formulation and Evaluation of a Folic Acid Receptor-Targeted Oral . Protein and peptide drug delivery: Oral approaches Shaji J, Patole V . Targeting of drugs to the gastrointestinal epithelia via oral liposomes. Front Cover. Yuji Simon Zhou. University of Michigan., 1998. Targeting Receptors, Transporters and Site of Absorption to Improve . Published: (1981); Drugs for the gut : a practical guide to gastrointestinal and liver . Targeting of drugs to the gastrointestinal epithelia via oral liposomes. Oral Drug Delivery with Polymeric Nanoparticles: The . Read the book Targeting Of Drugs To The Gastrointestinal Epithelia Via Oral Liposomes online or Preview the book. Please wait while, the book is loading. Nanotechnology in Drug Delivery - Google Books Result Mar 31, 2012 . Keywords:Insulin; Nanoparticles; Oral delivery; Diabetes; Chitosan;. Poly(?-Glutamic . Devices for Intestinal Epithelium-Targeted Insulin Delivery better drug delivery close to absorption sites – via increased residence. Alternative drug delivery approaches for the therapy of inflammatory . Oral Nano-Insulin Therapy - OMICS International Incorporation of FA-PEO-Chol in liposomes increased drug leakage by 20% . It is speculated that the cause of the observed effect was due to binding of liposome-surface folic acid to receptors in the GI folic acid liposomes vancomycin oral targeted delivery Caco-2 . Over 9 million scientific documents at your

fingertips. Biopharmaceutical parameters to consider in order to alter the fate of . Jul 22, 2015 . Oral drug delivery can be tailored to maintain drug plasma concentrations and their flexibility in accommodating tumor-targeting moieties. Although different nanocarriers, such as liposomes, polymeric micelles, polymer drug conjugates, through the in vitro and ex vivo models of the intestinal epithelium. Nanoparticulate drug-delivery systems: lymphatic uptake and its . Apr 16, 2014 . The results showed that the enhanced oral absorption of insulin Targeted drug delivery to absorptive epithelia by receptor-mediated . uptake through intestinal epithelia, especially by receptor-mediated endocytosis. Read Targeting Of Drugs To The Gastrointestinal Epithelia Via Oral . 6.5 Advantages and disadvantages of oral drug delivery. 150. 6.6 Current .. pass through the epithelium of the gastrointestinal tract; .. microspheres, liposomes and other advanced delivery systems (described in Chapter 5), are used. Such. Targeting Of Drugs To The Gastrointestinal Epithelia Via Oral Liposomes. Full Title: Targeting Of Drugs To The Gastrointestinal Epithelia Via Oral Liposomes Targeted Drug Delivery to Intestinal Macrophages by Bioactive Nanovesicles Released from . for the treatment of inflammatory gut diseases through oral drug delivery using GDNs. Characterization of grapefruit-derived nanoparticles (GDNs). (d) Histological scoring was evaluated by the combined score of epithelial Drug Delivery and Targeting for Pharmacists and . - Ajprd.com Oral route is the most common route for the delivery of drugs because it is simple . to enhance the bioavailability or the targeting of drug after oral administration. oral nanovectors with similar properties as those injected via the intravenous route. the major component of the intestinal epithelium, on nanocarriers uptake. Advances in oral nano-delivery systems for colon targeted drug . Nov 11, 2010 . Enhancing Oral Vaccine Potency by Targeting Intestinal M Cells Over the past few decades, several candidate vaccines have been designed and . Over the past few years, several oral vaccine delivery vehicles such as liposomes, as a model for enhancing antigen uptake by intestinal epithelial cells. Potential of polysaccharide anchored liposomes in drug delivery . Jun 16, 2014 . Mucus covers the epithelial cell surface, hence hampering the diffusion of peptide drugs. . Protein and peptide degradation is highest in the stomach and Various delivery systems have been developed to target absorption from the Penetration of drug through oral mucosa into systemic circulation is a 9780599085053 Targeting Of Drugs To The Gastrointestinal . There are two main challenges of drug delivery via the oral route: . To target distant pharmacological receptors after absorption. al. with Eudragit L100–55 nanoparticles, which released the drug CGP 57813 instantly at pH 5.5 and was mainly assessed on the basis of overall drug permeability through the GI epithelium. THE ROLE OF LIPIDS IN DRUG ABSORPTION THROUGH THE GIT Jun 28, 2014 . 1991). Among these carriers, liposomes and nanoparticles have been most various advantages offered by lymphatic targeting of orally administered dosage forms besides affording means of targeted drug delivery via a convenient The epithelial lining of GI tract is made of a mosaic of cells, among Oral protein delivery: Current status and future prospect - Kinam especially on new strategies for such treatment including liposomal . Keywords: controlled release; colonic drug delivery; oral drug delivery; disease gastrointestinal tract, which can impact the small .. EPITHELIAL TARGETING APPROACHES Microscopical images of a rat colon section through a tissue sample of the.