

HYDROGELS A NOVEL DRUG DELIVERY SYSTEM APPLICATIONS AND

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Drug delivery through the oral route has been the most common method in the pharmaceutical applications of hydrogels. In peroral administration, hydrogels can deliver drugs to four major specific sites; mouth, stomach, small intestine and colon.

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PDF Hydrogels as Novel Drug Delivery Systems

Polymer selection is usually based on the targeted site for drug delivery. Hydrogels have so many clinical applications, such as their use in ocular, small intestine, colon, skin, lung, kidney and

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Designing hydrogels for controlled drug delivery

Hydrogels are a particularly appealing type of drug delivery system, and have been used in many branches of medicine, including cardiology, oncology, immunology, wound healing, and pain management. Hydrogels are composed of a large amount of water and a cross-linked polymer network.

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Hydrogels and drug delivery ScienceDirect

Hydrogels and drug delivery Nikolaos A Peppas Recent developments include the use of water-swollen, crosslinked biomedical polymers as carriers for the delivery of drugs, peptides and proteins, as targeting agents for site-specific delivery, or as components for preparation of protein or enzyme conjugates.

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PDF Hydrogels as potential drug delivery systems

Hydrogels, the swellable polymeric materials, have been widely investigated as the carrier for drug delivery systems. These biomaterials have gained attention owing to their peculiar

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Hydrogels in drug delivery Progress and challenges

The unique physical properties of hydrogels have sparked particular interest in their use in drug delivery applications. Their highly porous structure can easily be tuned by controlling the density of cross-links in the gel matrix and the affinity of the hydrogels for the aqueous environment in which they are swollen.

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Hydrogels for Biomedical Applications Their

Hydrogels prepared from natural materials such as polysaccharides and polypeptides, along with different types of synthetic hydrogels from the recent reported literature, will be discussed in detail. Finally, attention will be given to biomedical applications of different kinds of hydrogels including cell culture, self-healing, and drug delivery.

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Hydrogels for Pharmaceutical and Biomedical Applications

Since the pioneering work of Wichterle and Lim on crosslinked HEMA hydrogels, hydrogels have metamorphosed from simple applications such as lubricants and contact lenses to controlled drug delivery systems. <http://home.schoolnutritionandfitness.com/Hydrogels-for-Pharmaceutical-and-Biomedical-Applications.pdf>

History and Applications of Hydrogels

example the polymerization of the material, a drug delivery or an in situ pore formation [9]. Finally, a third generation of hydrogels focusing on the Figure 2 Types of crosslinking, adapted from A.S.Hoffmann, *Advanced Drug Delivery Reviews* [29], on the left of the figure it <http://home.schoolnutritionandfitness.com/History-and-Applications-of-Hydrogels.pdf>

Hydrogels for biomedical applications ScienceDirect

The most important properties of hydrogels relevant to their biomedical applications are also identified, especially for use of hydrogels as drug and cell carriers, and as tissue engineering matrices. <http://home.schoolnutritionandfitness.com/Hydrogels-for-biomedical-applications-ScienceDirect.pdf>

Functional Hydrogels and Their Application in Drug

3.1. Applications in Drug Delivery Systems. In recent years, drug delivery systems capable of controlled dosage delivery for extended periods in the affected area have been vigorously developed all over the world. An effective drug delivery system has three critical requirements of the structure: a region for drug storage, a controlled release rate, and a release drive. Hydrogels exhibit these three functions.

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Designing hydrogels for controlled drug delivery Nature

Hydrogel delivery systems can leverage therapeutically beneficial outcomes of drug delivery and have found clinical use. Hydrogels can provide spatial and temporal control over the release of drugs. <http://home.schoolnutritionandfitness.com/Designing-hydrogels-for-controlled-drug-delivery-Nature-.pdf>

Hydrogels for Delivery of Bioactive Agents A Historical

Research on hydrogels for drug delivery has been focused on developing advanced drug delivery systems, such as self-regulated insulin delivery systems and artificial pancreas. These systems are based on the so-called smart hydrogels which respond to a minute change in environmental conditions with a large change in physicochemical properties. <http://home.schoolnutritionandfitness.com/Hydrogels-for-Delivery-of-Bioactive-Agents--A-Historical-.pdf>

Strong dual crosslinked hydrogels for ultrasound triggered

Hydrogels that can respond to dynamic forces either from endogenous biological activities or from external mechanical stimuli show great promise as novel drug delivery systems (DDS). However, it remains challenging to engineer hydrogels that specifically respond to externally applied mechanical forces with minimal basal drug leakage under normal stressful physiological conditions. <http://home.schoolnutritionandfitness.com/Strong-dual-crosslinked-hydrogels-for-ultrasound-triggered-.pdf>

Hydrogel based ocular drug delivery systems Emerging

Generally, the resulting hydrogel should be transparent, flexible, and biocompatible, as well as retain a large fraction of water, however more specific properties are required depending on the precise application. A hydrogel for topical application should be flexible, mucoadhesive, and minimally viscous, while a sustained drug release hydrogel for vitreous delivery should have a viscosity matching that of the vitreous gel.

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Hydrogel A novel drug delivery system Request PDF

Hydrogels with this attribute are termed 'intelligent' polymers. Controlled delivery studies have shown that such external stimuli as pH, temperature and pH/temperature have provided an excellent

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Intelligent Hydrogels as Drug Delivery Systems SpringerLink

Lately, hydrogels have attracted significant attention for application in drug delivery. Hydrogels are three-dimensional polymer networks consisting largely of water. They are characterised by a porous structure with porosity, pore size and geometry that can be varied during the hydrogel synthesis.

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Stimulus responsive smart hydrogels as novel drug

stimulus-responsive polymeric hydrogels. These hydrogels are responsive to external or internal stimuli and the response can be observed through abrupt changes in the physical nature of the network. This property can be favorable in many drug delivery applications. The external stimuli can be temperature, pH,

<http://home.schoolnutritionandfitness.com/Stimulus-responsive--smart--hydrogels-as-novel-drug--.pdf>

Hydrogels smart materials for drug delivery Oriental

The pharmaceutical industry has been developing hydrogel based drug delivery system in an advanced manner by tuning the structure, shape and surface modifications of the biopolymers. The present review highlights the role of hydrogels in drug delivery. It also highlights the use of important polymers and their applications in drug delivery.

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PDF As A Review on Hydrogels as Drug Delivery in the

Hydrogels that are responsive to specific molecules, such as glucose or antigens, can be used as biosensors as well as drug delivery systems. New synthetic methods have been used to prepare homo-

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Novel Metal Organic Framework Based Photocrosslinked

These MOF-embedded hydrogels may be useful in antibacterial applications such as cosmetics, treatment of skin diseases, and drug delivery owing to their low cytotoxicity and high bactericidal activity.

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Hydrogel nanoparticles in drug delivery ScienceDirect

Hydrogels, particularly those intended for applications in drug delivery and biomedical purposes, are required to have acceptable biodegradability and biocompatibility which necessitates the development of novel synthesis and crosslinking methods to design the desired products.

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Hydrogel Biomaterials for Application in Ocular Drug Delivery

Highlighting the potential application for hydrogels in ocular drug delivery. These include the delivery of drugs to both the anterior and posterior segments of the eye which will aid in overcoming the physiological barriers.

<http://home.schoolnutritionandfitness.com/Hydrogel-Biomaterials-for-Application-in-Ocular-Drug-Delive>

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Hydrogel as a novel drug delivery system a review

Hydrogel as a novel drug delivery system: a review. J. Fundam. Pharm. Res., 2(1):35-48 36 disadvantages, controlled release oral drug delivery systems were designed. Controlled release drug delivery systems are designed for uniform and constant drug release over a prolonged period of time. <http://home.schoolnutritionandfitness.com/Hydrogel-as-a-novel-drug-delivery-system--a-review.pdf>

Magnetic Hydrogels and Their Potential Biomedical Applications

The applications of magnetic hydrogels in biomedical engineering are also reviewed, including tissue engineering, drug delivery and release, enzyme immobilization, cancer therapy, and soft actuators. Concluding remarks and perspectives for the future development of magnetic hydrogels are addressed.

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Hydrogels Design Synthesis and Application in Drug

Dr Singh's research interest is in the design and physicochemical characterisation of advanced hydrogel-based drug delivery systems for ocular, transdermal and topical applications. In particular, his current research involves fabrication and design of novel long-acting injectable and implantable hydrogel-based drug delivery systems.

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Hydrogels in Controlled Release Formulations Network

Novel hydrogel systems for drug delivery including biodegradable, smart, and biomimetic hydrogels are reviewed in the second section. Several mechanisms have been elucidated to describe molecule release from polymer hydrogel systems including diffusion, swelling, and chemically-controlled release.

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Modular Hydrogels for Drug Delivery

The development of novel drug delivery systems is an essential step toward controlled site-specific administration of therapeutics within the body. It is desirable for delivery vehicles to be introduced into the body through minimally invasive means and, these vehicles should be capable of releasing drug to their intended location at a controlled rate.

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Stimulus Responsive Smart Hydrogels as Novel Drug

ABSTRACT Recently, there has been a great deal of research activity in the development of stimulus-responsive polymeric hydrogels. These hydrogels are responsive to external or internal stimuli and the response can be observed through abrupt changes in the physical nature of the network. This property can be favorable in many drug delivery applications.

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Hydrogels Properties Preparation Characterization and

Hydrogels: Properties, Preparation, Characterization and Biomedical, Applications in Tissue Engineering, Drug, Delivery and Wound Care Mohammad Sirousazar E-mail address: m.sirousazar@uut.ac.ir

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How to Design Multi Responsive Hydrogels for Drug Delivery

Hydrogels with specific, tunable and even reversible responses to environmental stimuli have been known for decades as excellent candidates for drug delivery [7, 11] and regenerative medicine [12, 13] applications. Peppas et al. have dedicated their careers to developing complexation and responsive hydrogels suitable for delivery of delicate

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Review on Magnetic Natural Polymer Constructed Hydrogels

In drug-delivery systems, the extent and the rate with which the drugs reach their targets are highly carrier-dependent, so the demand for intelligent drug-delivery systems is gradually increasing. Recently, natural polymer hydrogels functionalized with magnetic materials have been used as a novel smart response device for drug delivery because

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Hydrogel drug delivery system with predictable and tunable

Hydrogel drug delivery system with predictable and tunable drug release and degradation rates and individually optimized polymers are required for any given drug delivery system. Moreover, in addition to s.c. drug delivery, the tunable hydrogels should find utility in other applications, such as regenerative medicine, orthopedic implants

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Bioactuators based on stimulus responsive hydrogels and

The corresponding applications of drug-delivery systems based on stimulus-responsive hydrogels include neural disease treatment, cancer chemotherapy, and wound healing [133,134,135,136].

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Modular Hydrogels for Drug Delivery

186 Modular Hydrogels for Drug Delivery . The present review addresses recent important research developments, which have focused in hydrogel systems. Actually, the literature is exhaustive on general aspects about hydrogels. However, the article intends to concentrate on the hydrogel applications that are respon-

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Recent Advances in Novel Drug Delivery Systems

In these systems, release can be designed to occur within specific areas of the body (e.g., within a certain pH of the digestive tract) or also via specific sites (adhesive or cell-receptor specific gels via tethered chains from the hydrogel surface). Hydrogels as drug delivery systems can be very promising materials if combined with the

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Novel Drug Delivery System Open Access Journals

Hydrogels are three dimensional cross linked water soluble polymers. Various combination of polymers are formulated as novel drug delivery system. Various drugs formulated as hydrogels include Riboflavin, Salicylic acid, Simvastatin [22 - 25].

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A Novel Chitosan Hydrogel Based Nanoparticle Delivery

In an effort to improve the efficiency of drug delivery across the RWM, our lab has previously developed a novel CGP-hydrogel system that can deliver drugs to the inner ear in a stable, safe, and regulated manner, demonstrating significant improvement in outcomes (25,27). This hydrogel can be

applied, as a liquid, directly to the RWN, and at

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Hydrogels A Versatile Drug Delivery Carrier Systems

Hydrogels: A Versatile Drug Delivery Carrier Systems N. A. Sarkhejiya and L. H. Baldaniya* Department of Pharmaceutics, School of Pharmacy, RK University, Rajkot, India. Received April 12, 2012; accepted May 19, 2012 ABSTRACT Hydrogels are the material of choice for many applications in regenerative medicine due to their unique properties

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Dynamic Covalent Hydrogel with NIR Triggered Drug Delivery

Near-infrared (NIR) light-responsive, injectable hydrogels are among the most promising drug delivery systems for localized anticancer therapy owing to its minimally invasive administration and remote-controlled manner. However, most currently reported NIR-responsive hydrogels were usually generated through physical mixing of thermosensitive polymers and photothermal conversion agents. In this

<http://home.schoolnutritionandfitness.com/Dynamic-Covalent-Hydrogel-with-NIR-Triggered-Drug-Delivery-.pdf>

Novel Hydrogels via Click Chemistry Synthesis and

A novel procedure for the in situ rapid chemical gelation of aqueous solutions of hyaluronan has been employed. In brief, water-soluble polysaccharide derivatives bearing side chains endowed with either azide or alkyne terminal functionality have been prepared. When the latter two types of derivatives are mixed together in aqueous solution they give rise to a 1,3-dipolar cycloaddition reaction

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Drug Delivery Mooney Laboratory

To address these issues, controlled drug delivery systems, including membranes, nanoparticles, liposomes and hydrogels have been a major focus in recent decades. We are developing new drug delivery strategies to provide highly precise spatiotemporal availability of both small and large drug molecules to address these challenges.

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Self assembled supramolecular hydrogels based on polymer

The supramolecular self-assembly of cyclodextrins (CDs) and polymers has led to the development of novel supramolecular hydrogels for drug delivery applications. Many different supramolecular

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Short peptide based molecular hydrogels novel gelation

Molecular hydrogels hold big potential for tissue engineering and controlled drug delivery. Our lab focuses on short-peptide-based molecular hydrogels formed by biocompatible methods and their applications in tissue engineering (especially, 3D cell culture) and controlled drug delivery. This feature article firstly describes our recent progresses of the development of novel methods to form

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Advantages Of Novel Drug Delivery Systems Biology Essay

Advantages Of Novel Drug Delivery Systems Biology Essay. For many a years the treatment of an acute disease or a chronic disease has been mostly accomplished by the delivery of drugs using various dosage forms such as tablet, capsules, pills, suppositories, ointments, liquids, aerosols, and injectables.

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Classification of Drug Delivery Systems SpringerLink

Abstract. As stated in the last chapter, a drug delivery system is responsible to influence and determine the concentration profile of a drug, the kinetics of drug release, the site, and duration of drug action, and finally prevent the unwelcome side effects of a drug.

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Electroresponsive Polyacrylamide grafted xanthan Hydrogels

An electroresponsive drug delivery system was developed using poly(acrylamide-grafted-xanthan gum) (PAAm-g-XG) hydrogel for transdermal delivery of ketoprofen.

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In Situ Cross Linkable Novel Alginate Dextran Methacrylate

In situ polymerizable hydrogels are extensively investigated to implement new biomedical and pharmaceutical approaches. In the present paper a novel polysaccharidic matrix based on calcium alginate (Ca(II)-Alg) hydrogel and dextran methacrylate derivative (Dex-MA), showing potential applicability in the field of pharmaceuticals is described. The semi-interpenetrating polymer system (semi-IPN

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