

Novel Drug Delivery System By Nk Jain

Ethosome Ethanol is an efficient permeation enhancer that is believed to act by affecting the intercellular region of the stratum corneum. The size of the ethosomes vesicles can be modulated from tens of nanometers to microns. Ethosomes are soft malleable vesicles composed mainly of phospholipids, ethanol (relatively high concentration), and water. They are reported to improve the skin delivery of various drugs. These soft vesicles represent novel vesicles carriers for enhanced delivery through the skin. used for dermal and transdermal delivery of molecules. Ethosomes were developed by Touitou et al. ,1997, as additional novel lipid carriers composed of ethanol Ethosomes are phospholipid nanovesicles used for dermal and transdermal delivery of molecules. Ethosomes were developed by Touitou et al. ,1997, as additional novel lipid carriers composed of ethanol, phospholipids, and water 01d23dc10f

The first dendrimers were made by divergent synthesis approaches by Fritz Vögtle in 1978, R.G. Denkewalter at Allied Corporation in 1981, Donald Tomalia at Dow Chemical in 1983 and in 1985, and by George R. Newkome in 1985. In 1990 a convergent synthetic approach was introduced... 01d23dc10f The main types of RNA therapeutics are those based on messenger RNA (mRNA), antisense RNA (asRNA), RNA interference (RNAi), RNA activation (RNAa) and RNA aptamers. Of the four types, mRNA-based therapy is the only type which is based on triggering synthesis of proteins within cells, making it particularly useful in vaccine... 01d23dc10f The technique is considered highly significant in biotechnology and medicine as it enables editing genomes in vivo and is precise, cost-effective, and efficient. It can be used in the creation of new medicines, agricultural products, and genetically modified... 01d23dc10f

Poly(amidoamine) AS, Sridevi S, Chalasani KB, Jain AK, Jain SK, Jain NK, Diwan PV (July 2003). Like other dendrimers, PAMAMs have a sphere-like shape overall, and are typified by an internal molecular architecture consisting of tree-like branching, with each outward 'layer', or generation, containing exponentially more branching points. "Dendrimer-mediated transdermal delivery: enhanced bioavailability of indomethacin" Poly(amidoamine), or PAMAM, is a class of dendrimer which is made of repetitively branched subunits of amide and amine functionality. This branched architecture distinguishes PAMAMs and other dendrimers from traditional polymers, as it allows for low polydispersity and a high level of structural control during synthesis, and. PAMAM dendrimers, sometimes referred to by the trade name Starburst, have been extensively studied since their synthesis in 1985, and represent the most well-characterized dendrimer family as well as the first to be commercialized 01d23dc10f

Gold nanoparticles in chemotherapy With tumor-targeting delivery vectors becoming smaller, the ability to by-pass the natural barriers and obstacles of the body becomes more probable. Gold nanoparticle technology shows promise in the advancement of cancer treatments. useful candidates for targeted drug delivery systems. To increase specificity and likelihood of drug delivery, tumor specific ligands may be grafted onto the particles along with the chemotherapeutic drug molecules, to allow these molecules to circulate throughout the tumor without being redistributed. Some of the properties that gold nanoparticles possess, such as small size, non-toxicity and non-immunogenicity make these molecules useful candidates for targeted drug delivery systems. With tumor-targeting delivery vectors becoming smaller, the ability to by-pass the natural barriers and Gold nanoparticles in chemotherapy and radiotherapy is the use of colloidal gold in therapeutic treatments, often for cancer or arthritis 01d23dc10f

Dendrimer "Exploring dendrimer towards dual drug delivery: pH responsive simultaneous drug-release kinetics",. Journal Dendrimers are highly ordered, branched polymeric molecules. A dendron usually contains a single chemically addressable group called the focal point or core. The difference between dendrons and dendrimers is illustrated in the top figure, but the terms are typically encountered interchangeably. The word dendron is also encountered frequently. RK, Dutta T, Gajbhiye V, Jain NK (June 2009). Typically, dendrimers are symmetric about the core, and often adopt a spherical three-dimensional morphology. Synonymous terms for dendrimer include arborols and cascade molecules 01d23dc10f

CRISPR gene editing (November 2019). PMID 29704747. PMC 5944364. By delivering the Cas9 nuclease complexed with a synthetic guide RNA (gRNA) into a cell, the cell's genome can be cut at a desired location, allowing existing genes to be removed or new ones added in vivo. Jain PK, Lo JH, Rananaware S, Downing M, Panda A, Tai M, et al. It is based on a simplified version of the bacterial CRISPR-Cas9 antiviral defense system. "Non-viral delivery of CRISPR/Cas9 complex using CRISPR gene editing (; pronounced like "crisper"; an abbreviation for "clustered regularly interspaced short palindromic repeats") is a genetic engineering technique in molecular biology by which the genomes of living organisms may be modified 01d23dc10f

The choice of therapy depends upon the location and grade of the tumor and the stage of the disease, as well as the general state of the patient. Biomarker testing... 01d23dc10f

Nicholas A. Peppas Peppas (Greek: Νικόλαος A. engineer whose leadership in biomaterials science and engineering, drug delivery, bionanotechnology, pharmaceutical sciences, chemical and polymer engineering Nicholas (Nikolaos) A. Πέππας; born 25 August 1948, in Athens, Greece) is a chemical and biomedical engineer whose leadership in biomaterials science and engineering, drug delivery, bionanotechnology, pharmaceutical sciences, chemical and polymer engineering has provided seminal foundations based on the physics and mathematical theories of nanoscale, macromolecular processes and drug/protein transport and has led to numerous biomedical products or devices 01d23dc10f

Orbitofrontal cortex "What the orbitofrontal cortex does not do",. PMC 5461826. PMID 27102419. 2016. neuroscience. In non-human primates it consists of the association cortex areas Brodmann area 11, 12 and 13; in humans it consists of Brodmann area 10, 11 and 47. 04. Nature The orbitofrontal cortex (OFC) is a prefrontal cortex region in the frontal lobes of the brain which is involved in the cognitive process of decision-making. Stalnaker, TA; Cooch, NK; Schoenbaum, G (May 2015). 017 01d23dc10f

The OFC is functionally related to the ventromedial prefrontal cortex. Therefore, the region is distinguished due to the distinct neural connections and the distinct functions it performs. It is defined as the part of the prefrontal cortex that receives projections from the medial dorsal nucleus of the thalamus, and is thought to represent emotion, taste, smell and reward in decision-making. It gets its name from its position immediately above the orbits in which the eyes are located. Considerable... 01d23dc10f

Postpartum psychosis There is some evidence connecting PPP with changes to levels of peripheral immune cells (e. Other symptoms frequently associated with PPP include confusion, disorganized thought, severe difficulty sleeping, variations of mood disorders (including depression, agitation, mania, or a combination of the above), as well as cognitive features such as consciousness. , incoherent speech), and/or abnormal motor behavior (e. , lymphocytes and NK or natural killer Postpartum psychosis (PPP), also known as puerperal psychosis or peripartum psychosis, involves the abrupt onset of psychotic symptoms shortly following childbirth, typically within two weeks of delivery but less than 4 weeks postpartum. , catatonia). g. g. g. and the immune system. PPP is a condition currently represented under "Brief Psychotic Disorder" in the Diagnostic and Statistical Manual of Mental Disorders, Volume V (DSM-V). Symptoms may include delusions, hallucinations, disorganized speech (e 01d23dc10f

RNA therapeutics Research has been working on clinical use since the 1990s, with significant success in cancer therapy in the early 2010s. Such RNA aptamers RNA therapeutics are a new class of medications based on ribonucleic acid (RNA). For instance, by conjugating the RNA aptamer to a drug compound, the RNA aptamer can act as a targeted delivery system for that drug. In 2020 and 2021, mRNA vaccines have been developed globally for use in combating the coronavirus disease (COVID-19 pandemic). The Pfizer-BioNTech COVID-19 vaccine was the first mRNA vaccine approved by a medicines regulator, followed by the Moderna COVID-19 vaccine, and others 01d23dc10f

Cancer treatment Other therapies Cancer treatments are a wide range of treatments available for the many different types of cancer, with each cancer type needing its own specific treatment. Angiogenesis inhibitors are sometimes used to enhance the effects of immunotherapies. Treatments can include surgery, chemotherapy, radiation therapy, hormonal therapy, targeted therapy including small-molecule drugs or monoclonal antibodies, and PARP inhibitors such as olaparib. Most commonly cancer treatment involves a series of separate therapies such as chemotherapy before surgery. radiation therapy, hormonal therapy, targeted therapy including small-molecule drugs or monoclonal antibodies, and PARP inhibitors such as olaparib. Other therapies include hyperthermia, immunotherapy, photodynamic therapy, and stem-cell therapy 01d23dc10f

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