

Nanotechnology And Drug Delivery Volume Two Nano Engineering Strategies And Nanomedicines Against Severe Diseases

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Taking advantage of the advanced conceptualizations on nanomedicine engineering that were described in volume one, volume two, Nano-Engineering Strategies and Nanomedicines against Severe Diseases, analyzes in depth special features related to the formulation of nanoplatforms for oral, dental, topical and transdermal, pulmonary and nasal, ocular and otic, vaginal, and brain drug delivery and targeting.

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Forage crops include several species of grasses and legumes that are widely used as animal fodder in the form of hay, pasturage and silage, as well as for turf and erosion control. Some forage grasses are also being considered for bio-energy generation. In this book leading researchers review the latest advances in molecular genetics and genomics; they also examine the success of breeding ...

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related to the formulation of nanoplatforms for oral, dental, topical and transdermal, pulmonary and nasal, ocular and otic, vaginal, and brain drug delivery and targeting.

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Nanotechnology offers a revolutionary and definitive approach for the efficient delivery of drug molecules to non-healthy tissues and cells. This first volume of a series of two volumes – Nanotechnology and Drug Delivery, Volume One: Nanoplatforms in Drug Delivery – analyzes the basics in the development of drug-loaded nanoplatforms, the so-called nanomedicines.

Nanotechnology and drug delivery: platforms

Abstract: The use of nanotechnology in medicine and more specifically drug delivery is set to spread rapidly. Currently many substances are under investigation for drug delivery and more specifically for cancer therapy. Interestingly pharmaceutical sciences are using nanoparticles to reduce toxicity and side effects of drugs and up

Nanotechnology: Applications in Medicine and Drug Delivery ...

PDF. Abstract. A special issue of the journal Dose-Response entitled "Nanotechnology and Microtechnology in Drug Delivery Systems" is proposed. In pharmaceutical studies, new and existing drugs continue to be investigated for their poor specificity, solubility, therapeutic index, and immunogenicity. In order to solve these problems, drug delivery systems are essential for controlled drug release.

Nanotechnology and Microtechnology in Drug Delivery ...

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Fine-tuning nanoparticle properties for effective drug delivery involves addressing the following factors. The surface-area-to-volume ratio of nanoparticles can be altered to allow for more ligand binding to the surface. Increasing ligand binding efficiency can decrease dosage and minimize nanoparticle toxicity.

Nanoparticle drug delivery - Wikipedia

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Hence, the synergy between nanotechnology and oral drug delivery holds the promise of revolutionizing therapies as we know them. PhD student João Pedro Martins and Prof. Hélder A. Santos , from the Faculty of Pharmacy at the University of Helsinki, introduce us to their recently edited book entitled " Nanotechnology for Oral Drug Delivery: From Concept to Applications ".

Recently published book on "Nanotechnology for Oral Drug ...

Drug delivery is a process of administering a pharmaceutical compound to bring about therapeutic effects in patients. Drug delivery technology evolved to become an integral tool for the enhancement of pharmacokinetic properties of drugs, minimization of harmful side effects, and bringing about superior clinical outcomes.

Drug Delivery - an overview | ScienceDirect Topics

Nanotechnology is the use and control of very small structures that are 1 to 100 nanometres in size. The small size of nanoparticles means that it is possible that they can penetrate into the body ...

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