Tentative Outline

Special Issue for Current Drug Delivery

Nanostructure based systems: Potential for Therapeutics, diagnostics and drug delivery

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Aims & Scope

Nanotechnology allows us the control, study and manufacture of structures or devices ranging in nanometer size. These nanostructures display novel characteristics and functions. Their small dimension, modified surface, enhanced solubility and multi-functionality continue to generate new biomedical applications. The properties of nanostructures offer the capability to interact with complex cellular functions. Nanostructures offer targeted approach along with increased aqueous solubility, release and bioavailability of drug, simultaneously providing protection to the drug from environmental conditions and reducing toxic effects of drug also. These nanostructures can be administered through all routes of administration and also allow rapid-formulation development.

This fast emerging field entails inter-disciplinary research and offers prospects to design and develop devices with ample scope to target, diagnose, and treat diseases such as cancer. A key feature of nanostructures is its ability to specifically target the diseased cells using a range of molecules such as antibodies recombinant proteins, vaccines and more recently, nucleotides. Nanostructured conjugates have the capability to elicit effective targeting and release of therapeutic agents specifically at the site of action, while minimizing undesirable side effects.
Sub topics

I.  Targeting strategies in Nanostructure based drug delivery
II.  Lipid-based nanostructures for Drug Delivery
III.  Polymer-based nanostructures for Drug Delivery
IV.  Application of Nano-biotechnology in Drug Delivery
V.  Biomedical Applications of Nanostructures
VI.  Nanostructures in medical Diagnostics and Imaging
VII.  Nanostructures as Therapeutics agents
VIII.  Surgical applications of Nanostructures
IX.  Toxicity issues for nanostructures

Call for Papers to special issue: 10th Jan, 2015
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Complete the review Process: 31st Oct. 2015
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PUBLICATIONS

REFEREED JOURNALS

International


5. Praveen Kumar Gaur, Suresh Purohit, Yatendra Kumar, Shikha Mishra, Anil Bhandari, “Ceramide-2 nanovesicles for effective transdermal delivery: development, characterization and pharmacokinetic evaluation”. Drug Development
and Industrial Pharmacy, 2014 Apr;40(4):568-76; Informa healthcare publication (Impact Factor 2.006)


9. **Praveen Kumar Gaur**, Suresh Purohit, Yatendra Kumar, Shikha Mishra, Anil Bhandari, “Preparation, characterization and permeation studies of a nanovesicular system containing diclofenac for transdermal delivery”. Pharmaceutical Development and Technology 01/2013; Informa healthcare publication (Impact Factor 1.33)


16. Rabee Kumar, Mohd Yasir, Shubhini A Saraf, **Praveen K Gaur**, Yatendra Kumar, Alok Pratap Singh “Glyceryl monostearate based nanoparticles of mefenamic acid: Fabrication and in vitro characterization” *Drug Invention Today* vol. 5 issue 3 September, 2013. p. 246-250; (**Elsevier publication**) (Indexed by **Thomson Reuters and Science Direct**) (**ISSN** 0975-7619)


**National**


5. **Praveen Guar**, Role of Bioprofiling and Chemoprofiling for Herbal Drugs: A Review; International Journal of Green Pharmacy,

**BOOK**

Worked as:

A. Guest Editor:

Journal- Letters in Applied NanoBioScience

B. Reviewer:

2. Journal of drug delivery science and technology (Impact factor 1.088), France
3. Chimica OGGL (Impact factor 0.539), TEKNOSCIENZE Srl, Italy
4. African Journal of Pharmacy and Pharmacology (Impact factor 0.84),
   academic journals
5. Journal of Biomaterials Applications (Impact factor 2.764)
7. European Journal of Lipid Science and Technology (Impact factor 2.033)
8. International Journal of Nanoparticles, Inderscience Publishers, UK
11. Drug Invention Today, Elsevier Inc.
12. British Journal of Pharmaceutical Research, Sciencedomain international
13. Journal of Molecular Pharmaceutics & Organic Process Research, OMICS Publishing Group

14. Journal of Scientific Research and Reports