



Nanopharmaceutics: The Potential Application of Nanomaterials

Xing-Jie Liang

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Nanomaterials, with their unique size-dependent physical and chemical properties, have shown promising advantages as drug and gene delivery vehicles, ultra-sensitive intracellular detectors and novel therapeutic drugs. Nanopharmaceutics is one of the disciplines that will benefit the most from this technology.

Nanotechnology will have a revolutionary impact on cancer diagnosis and therapy due to the exceptional characteristics of nanopharmaceutics.

This book provides an overview of some tools, methods, and materials of nanotechnology that offer potential applications in pharmaceutics, followed by a series of examples showing applications that are already in development. It may very well inspire researchers to develop a new generation of pharmaceutics with inventive non-traditional approach and employ nanoscale science for the benefit of the patient.

Contents:

- Innovative Treatments for Cancer: The Impact of Delivering siRNAs, Chemotherapies, and Preventative Agents Using Nanoformulations (*Sara S Hook, Dorothy Farrell, George W Hinkal, Krzysztof Ptak, Nicholas J Panaro and Piotr Grodzinski*)
- Nano-Emulsions: Overview and Applications (*Xiang Li, Nicolas Anton and Thierry Vandamme*)
- Protein Nanopharmaceutics — Concepts and Safety Considerations (*Eva Horn Møller, Lene Jorgensen and Natalie J Medlicott*)
- Nanoscaled Proteomic Analysis (*Yan Xu and Lee Jia*)
- Tumor Targeting Potential of Lipid-Based Nano-Pharmaceuticals (LNPs) (*Kshitij Gupta, Amichai Yavlovich, Anu Puri and Robert Blumenthal*)
- Novel Methods of Lipidic Nanoparticle Preparation and Drug Loading (*Yoshie M*)
- Biomedical Properties Study of Modified Chitosan Nanoparticles for Drug Delivery Systems (*Mohammad Reza Saboktakin*)
- Dendrimers as Nanovectors for Nucleic Acid Delivery (*Xiaoxuan Liu, Qi Wang and Ling Peng*)
- Drug Delivery Systems for Platinum Drugs (*Vien T Huynh, Wei Scarano and Martina H Stenzel*)
- Improving Platinum Efficiency: Nanoformulations (*Rolando Carmona and Xing-Jie Liang*)
- Design Principles of Nanoparticles as Contrast Agents for Magnetic Resonance Imaging (*Liang Shan, Xinbin Gu and Paul Wang*)
- Perfluorocarbon Nanoparticles: A Theranostic Platform Technology (*G M Lanza, P M Winter, S D Caruthers, M S Hughes, G Hu, D Pan, A H Schmieder, C T N Pham and S A Wickline*)
- Potential Toxic Effects of Nano-Oxides (*Mingsheng Xu, Hongzheng Chen, Minmin Shi, Gang Wu, Daisuke Fujita and Nobutaka Hanagata*)
- Electron Spin Resonance Spectroscopy for Studying the Generation and Scavenging of Reactive Oxygen Species by Nanomaterials (*Jun-Jie Yin, Baozhong Zhao, Qingsu Xia and Peter P Fu*)
- Nanotechnology: A New Approach to Improve Orthopedic Implants (*Hongjian Zhou, Fangfang Sun and Jaebeom Lee*)
- *In Situ* Controlled Release of Dopamine for Treatment of Parkinson's Disease (*Emma Ortiz, Anna Kozina, Dulce Esquivel and Karla Espinoza*)

- Novel Nanotechnology Strategies for the Treatment and Prevention of HIV Infection (*Jian Jun Tan, Xiao Hui Sun, Xue Ting Ma, Jian Qing Guan and Cun Xin Wang*)
- Interaction of Nanoparticles with the Immune System and Their Significance in Drug-Design and Development (*Anil Kumar, Bhargavi M Boruah and Xing-Jie Liang*)
- Nano-Carbon-Based Systems for the Delivery of Bioactive Agents: Pros and Cons (*Tapas R Nayak and Giorgia Pastorin*)
- Nanostructures with Biocompatible and Biodegradable Characteristics (*Jie Meng*)

Readership: Students, professionals and researchers in pharmaceutical industry and nanoscience.

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