

Pharmaceutical Nanotechnology and Nanomedicine

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Role Of Nanotechnology In Drug Delivery A Novel Technique Of 21st Century

Nanotechnology commonly refers to structures that are up to several hundred nanometers in size. Nanomedicines and nano drug delivery systems are relatively new but rapidly developing science where materials in the nanoscale range are employed to serve as means of diagnostic tools or to deliver therapeutic agents to specific targeted sites in a controlled manner. Novel drug delivery systems have several advantages over conventional multi dose therapy. Nanoparticles can offer significant advantages over the conventional drug delivery in terms of high stability, high specificity, high drug carrying capacity, ability for controlled release, possibility to use in different route of administration and the capability to deliver both hydrophilic and hydrophobic drug molecules. A well-designed drug delivery system can overcome some of the problems of conventional therapy and enhance the therapeutic efficacy of a particular drug. The intent of the study is to highlight the potential of nanoparticle formulation and their applications in delivery of drug molecules. This study will also describe the challenges and future nanotechnology strategies to overcome limitations in this field.

Biography

Rashid Mahmood has Master Degree in Analytical Chemistry and MS in Total Quality Management. He is having over 19 years of experience of Pharmaceutical Technical Operations and has represented his country as a keynote speaker in many international conferences. He has presented various talks in USA, Canada, UK and UAE on Cleaning Validation, GXP, Quality Risk Management, Role of Mass Spectrometry in Pharmaceuticals and on new Drug Delivery Systems. Currently he is working as General Manager Technical Operations in Surge Laboratories Private Limited, Manufacturer of Microencapsulated APIs, Liquid & Sterile Dry Powder Parenterals. Surge Laboratories is one the best export oriented organization of Pakistan.

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