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Heyam Saad Ali

Dubai Pharmacy College, UAE

Nanotechnology and its applications

Nanotechnology is the study of extremely small structures. It can be used for a broad range of applications and the creation of various types of nanomaterials, nanodevices and nanosystems, due to their unique properties. This presentation includes different manufacturing approaches, aspects and scope of nanotechnology. The advancement of nanotechnology and its applications in the field of medicines and pharmaceuticals in different areas has revolutionized the twentieth century. Pharmaceutical applications of nanoparticles in drug delivery and protein and peptide delivery, has impact in drug development, bioavailability and stability. Clinical applications of nanotechnology in various nanosystems in cancer therapy such as carbon nanotube, dendrimers, nanocrystal, nanowire, nanoshells etc., and in operative dentistry, ophthalmology, surgery, visualization, tissue engineering, antibiotic resistance, immune response and the treatment of neurodegenerative disorders, tuberculosis, Parkinson's disease and Alzheimer's disease.

Biography

Heyam Saad Ali has completed her PhD from Bradford University, UK. She is working as the Head of Pharmaceutics Department, Head of Quality Assurance and Auditing Unit of Dubai Pharmacy College, UAE since 2000. She has teaching and research experience of about 25 years. She is a member of various pharmaceutical associations and contributed more than 50 articles to reputed international scientific journals in different controlled and targeted drug delivery systems. She is a Reviewer and Member of Editorial Board of many international pharmaceutical journals.

heyam57@hotmail.com

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