



Nanomedicine is a branch of medicine that applies the knowledge and tools of nanotechnology to the prevention and treatment of disease.

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Abstract:

Nanomedicine involves the use of nanoscale materials, such as biocompatible nanoparticles and nanorobots, for diagnosis, delivery, sensing or actuation purposes in a living organism

Nano drugs are a revolutionary and ubiquitous science of the 21st century; a Nano drug is the application of nanotechnology in the medicinal field that has the potential to significantly change the course of diagnostics and treatment of various life-threatening diseases. A Nano drug is basically the application of nanotechnology to drugs, and they are envisioned to have a great impact on public health. . The interest in Nano drugs for treatment and diagnosis is clearly reflected from the wide array of high-quality research publications and issued patents every year.

Nanomedicine and Nano delivery systems are a 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. Nanotechnology offers multiple benefits in treating chronic human diseases by site-specific, and target-oriented delivery of precise medicines. Recently, there are a number of outstanding applications of the nanomedicine (chemotherapeutic



agents, biological agents, immunotherapeutic agents etc.) in the treatment of various diseases. The current review, presents an updated summary of recent advances in the field of nanomedicines and Nano based drug delivery systems through comprehensive scrutiny of the discovery and application of nanomaterials in improving both the efficacy of novel and old drugs (e.g., natural products) and selective diagnosis through disease marker molecules. The opportunities and challenges of nanomedicines in drug delivery from synthetic/natural sources to their clinical applications are also discussed. In addition, we have included information regarding the trends and perspectives in nanomedicine area.

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Webinar on Nano-Engineering and Its Applications

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