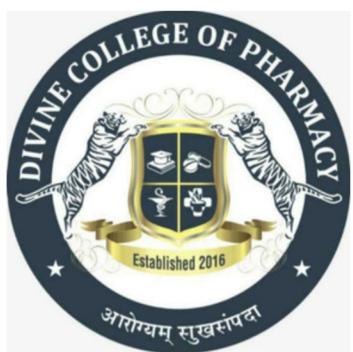


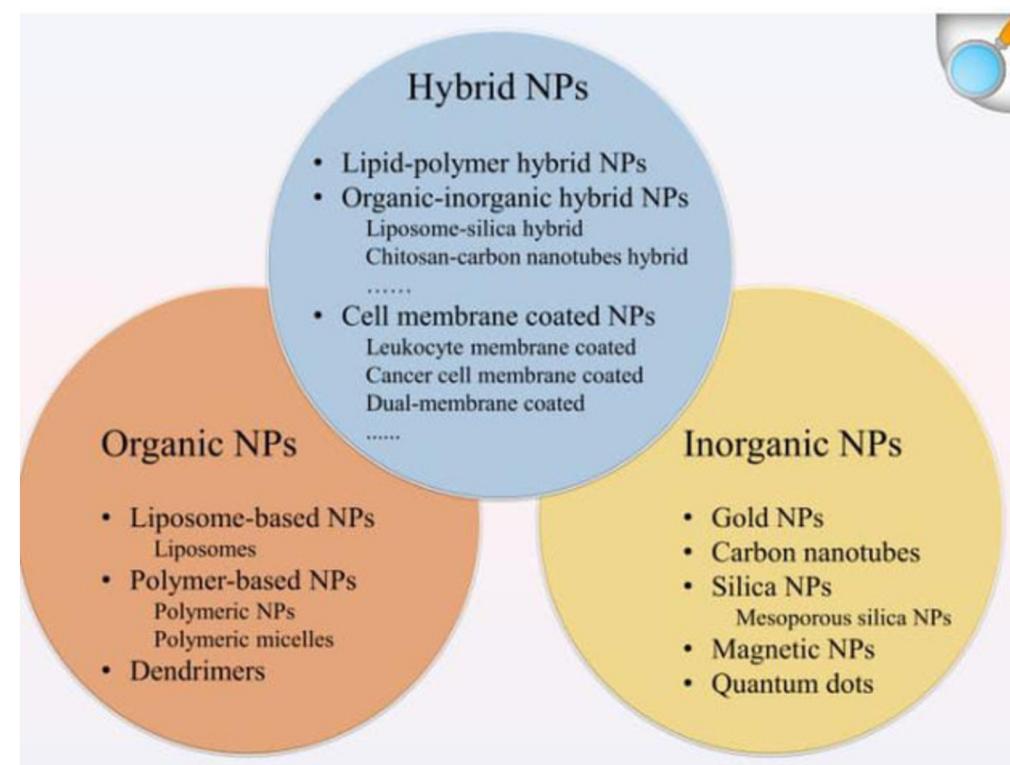
Nanotechnology And Nanoparticle Base Drug Delivery System For Cancer Treatment



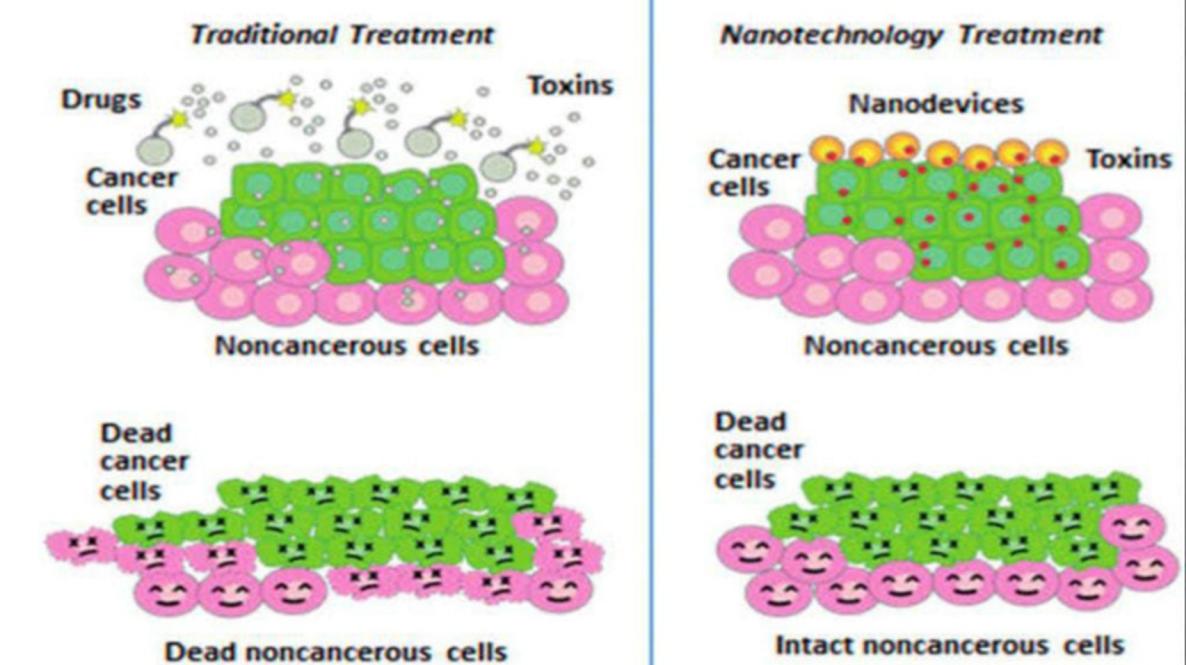
Introduction: Nanotechnology and its advancements have given new direction to medical science. Nanoparticles base drug delivery system (NDDS) are an advanced method for delivering drug to specific target within the body. These systems utilize nanoparticles - tiny particles typically ranging from 1 to 100 nanometer, to enhance the effectiveness, bioavailability and safety of drug. There are many nanodevices used in Drug delivery e.g. micelles, vesicles, dendritic polymers, liquid crystal and nanotubes.

Advantage and Application of NDDS :

1. Targeted delivery
2. Improved bioavailability
3. Reduced toxicity
4. Controlled release
1. Cancer therapy
2. Infectious diseases
3. Neurological disorders
4. Gene therapy



Improving Cancer Treatment



Conclusion: Nanotechnology Applied To Cancer Therapy Has Led To A New Era Of Cancer Treatment. Nanotechnology Based Method Is The Best Method of Diagnosis Drug Delivery And Treatment Of Cancer And Other Diseases .

References:

- i. <https://www.cancer.gov>
- ii. <https://pmc.ncbi.nlm.nih.gov>
- iii. <https://www.sciencedirect.com>