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Multimodal Perspectives of Nanotechnology and Nanoparticles in Drug Delivery

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Abstract

The aim of drug delivery is primarily focused on the optimum bioavailability at the targeted site of action over a defined period of time. Nanoparticle plays significant role in the drug delivery as it can be designed as target based, with improved stability, increased drug stability as well as can offer constant rate in the drug delivery. Nanoparticles can be created via carbamate, thiourea and amide linkage as well as electrostatic interaction, hydrophobic entrapment and chemisorptions. Literature also supported the profound antibacterial antiviral activity of silver nanoparticles. On the basis of methodology adopted the preparation, nanoparticles, nanospheres or nanocapsules prepared. For the can be nanoparticles, methods like dispersion of preformed polymers, polymerization of monomers and ionic gelation/ coecervation of hydrophilic polymer technology were usually adopted.

References

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