

A Review on Systematic Drug Utilizing Protein based Nanoparticles

Prof. Shinde. S. B, Dr. Abhishek Kumar Sen, Ms. Gahire Pallavi Mansing

Pratibhatai Pawar College of Pharmacy Wadala Mahadev, Shrirampur

Abstract: *A chemical and bimolecular medication, including anti-cancer medication and therapeutic protein have been widely delivered by nanoparticles. Because of their safety, natural Biomolecules like protein are a desirable substitute for synthetic polymers, which are frequently utilizes in the creation of nanoparticles. Protein containing nanoparticles are particularly noteworthy due to their ability to target specific site. Nanoparticles and other particulate system have been employed as a physical method to modify and enhance the pharmacokinetics and pharmacodynamic characteristics of many kinds of medicinal molecules They have been employed in vivo to protect the drug entity in the systemic circulation, limit the drug access to certain areas , and transport the drug to the site of action steady and regulated rate. The creation of nanoparticles utilizing protein such as albumin, gelatin, gliadin and legumin is the subject of ongoing research nowadays. Protein nanoparticles have potential as oral and parenteral medication delivery vehicles. In recent years, it has become apparent that cancer nanomedicines reliance on synthetic nanoparticles as drug delivery systems has resulted in limited clinical outcomes. This is mostly due to a poor understanding of their “bio–nano” interactions. PNPs must be precisely constructed and designed in order to realize their full therapeutic potential. We describe the latest developments and uses of PNPs in cancer nanomedicine in this review.*

Keywords: Protein nanoparticles, biomolecules , medication, Drug delivery, nanomedicine

