



## **APPLICATIONS OF NOVEL POLYMERIC NANOPARTICLES AND NATURAL PLANT PRODUCTS IN DRUG DELIVERY FOR VARIOUS THERAPEUTIC PURPOSES**

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**Abstract :** Successful therapy and present diagnosis are very important to enjoy a healthy life when suffering from the diseases. Nanotechnology has the application where the matter may be control at the molecular level. Aptamers may call as the multi-talented molecule. The polymeric nanoparticles have high mobility in the smallest capillaries permit the efficiency of uptake and accumulation of selective drug at the targeted sites for therapy of cancer. The important role is played by nanotechnology in many more technologies. Current progress has opened up applied frontiers and novel fundamental in engineering and materials science in nanotechnology. This review focused on the recent success in the development of drug delivery and targeted drug delivery with the help of polymeric nanoparticles for an efficient anti-cancer therapeutics.

**Key words :** Aptamers, polymer, medical field, drug delivery, nanoparticles.