

Editorial Note on Silver Nano Particles

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EDITORIAL

The way we diagnose, treat and prevent various diseases in various aspects of human life has drastically changed over the years due to the advancements in nanotechnology and Nano research. Among the several metallic Nano particles used, silver Nano particles have a vital place in most of the biomedical applications of Nano particles. They are commonly called as AgNP'S. These AgNP'S play a major role in nanotechnology, Nano science, and especially Nano medicine. The potential application of these Nano particles in cancer diagnosis and therapy has been more focused during the recent research trends.

These AgNP'S can be synthesized either by physical, chemical or biological methods. These AgNP'S are multi-functional i.e. they are anti-fungal, anti- viral, anti-inflammatory in function. They are also used as therapeutic agents and are also used to administer the chemo therapeutic agents in cancer therapy.

The increasing research carried out on these nanoparticles has led to the great demand for AgNP'S. The process of producing these nanoparticles by physical or chemical processes is cost consuming, time taking and highly hazardous. Interestingly, the biological synthesis of AgNP'S of is cost effective and comparatively safe. These AgNP'S have found to be more effective due to their high solubility, greater yield and high stability.

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The organic action of AgNPs depends upon factors including surface science, size, size dispersion, shape, molecule morphology, molecule creation, disintegration rate, molecule reactivity in arrangement, proficiency of particle delivery, cell type. The kind of decreasing specialists utilized for the blend of AgNPs are a urgent factor for the assurance of cytotoxicity .The physicochemical properties of nanoparticles upgrade the bioavailability OF Therapeutic agents after the local administration and systemic administration. On the other hand it can influence cell take-up, natural circulation, infiltration into natural boundaries, which results in remedial impacts. Thus, the advancement of AgNPs with controlled constructions that are uniform in size, morphology, and usefulness are fundamental for different biomedical applications.