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Review on Biosynthesis and Characterization Techniques of Nanoparticles on Path of Cancer Therapy

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ABSTRACT:

Cancer is one of the most threatening health problems in all over the world, which causes huge number of deaths. From last decade nanomedicine become significant alternative strategies for cancer therapies. Conventional cancer treatments have several limitations like poor solubility in water, incompatibility for oral administration, short half-life in the body, deprived specificity linked with rigorous side effects, therefore nano sized particles achieve a considerable interest to conquer these limitations. The current review, presents an updated summary of recent methods used for fabrication of nanomedicines and various characterization techniques for nanoparticles confirmation, which involve UV visible spectroscopy and FTIR confirms the formation of nanoparticles and functional groups present in nanoparticles synthesis respectively. TEM will be favored over SEM for smaller nanoparticles; in addition preference will be given to AFM for non-spherical nanoparticles. Wet-STEM technique is favored for liquid samples for nanoparticles detection. The principle involved in manufacturing nanoparticles at diverse stages like as reduction, nucleation and development has also been briefly reviewed. Finally, we conclude our review with the application of these NPs as anti-cancer agents

Key Words: Cancer, Biosynthesis techniques of nanoparticles, Characterization Techniques.

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