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Current Progress and Future Prospects of Nanomaterials for Cancer Therapy

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Abstract:

Cancer is one of the greatest threats to humankind, with a steadily rising death rate. The three primary cancer treatments used today are radiation, chemotherapy, and surgery. As a novel technique, nanotechnology has recently been extensively used in cancer therapy through theranostics, imaging, and diagnostics. It is imperative to investigate novel and biosafe therapeutics to achieve effective and efficient anti-cancer effects. Nanomaterials have received considerable attention in cancer therapies owing to their potent characteristics. In this review, we thoroughly discussed the present status, challenges, and future perspectives in cancer therapy. This review would provide innovative concepts, viable approaches, and possible avenues for developing cutting-edge nanomaterials for cancer treatment in the advanced biomedical sciences.

