

NANOROBOTICS: A THERANOSTIC APPROACH

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ABSTRACT

Scientific advancements and modern vision holds a hand over every field of technology and sciences. The technology which, works at atomic level is called nanotechnology, deals with everything from medical sciences to electronics and a broad area of techniques. The high reactivity and desirable properties can be obtained after manipulation of bulk material at atomic level. Nanorobotics is a branch of nanotechnology – having characteristic features of actuating, sensing, signaling, information, processing and intelligence at nano scale. Nanorobotics in medication conveyance and therapeutics would be the next breakthrough in the medical sciences. In recent times, scientists are working towards developing smarter drug delivery system for rigid and complex diseases like Cancer, Alzheimer's, Parkinson's disorders and many more. The present review article focuses on the nanomaterial in the field of diagnostics and treatment with the brief introduction to the composition, mechanisms and their application in medicine. This technology has the potential to solve prime problems of the world. Due to nanotoxicity that comes along with these experiments, the field is yet to explore the depth of these techniques.

Key Words: Nanotechnology, Nanorobots, Medicine, Pharmaceuticals, Theranostic nanomaterial.

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