

Nanotechnology In Healthcare - Short Review of Patent and Non-Patent Literature [†]

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Abstract: This review paper is a systematic study and analysis of patent and non-patent literature in the domain of nanotechnology. More specifically, the patent study was categorized as drug delivery, diagnostics, therapeutics, theragnostic, pharmaceutical composition, and pharmaceutical preparation. A paid search tool “Patseer” was used to search for relevant patents, in addition to other available free tools such as Google patents and Espacenet, etc. The result was categorized based on: Number of patents by Application Year, Jurisdiction of Application Country, Jurisdiction of Publication Country, Applicants, Assignees (owners), Inventors. 24732 patent references were obtained concerning search from the year 2001 till date. The filing shows a consistently increasing trend till 2019, after which there is a slight dip. Further, about 90 non-patent literature from 2010 onwards and relevant to the topic of healthcare were analyzed, and categorized as those relating to prevention, diagnostics, regenerative medicine, immunization/vaccination, therapeutics, and drug delivery. The distribution of the references is indicated below.

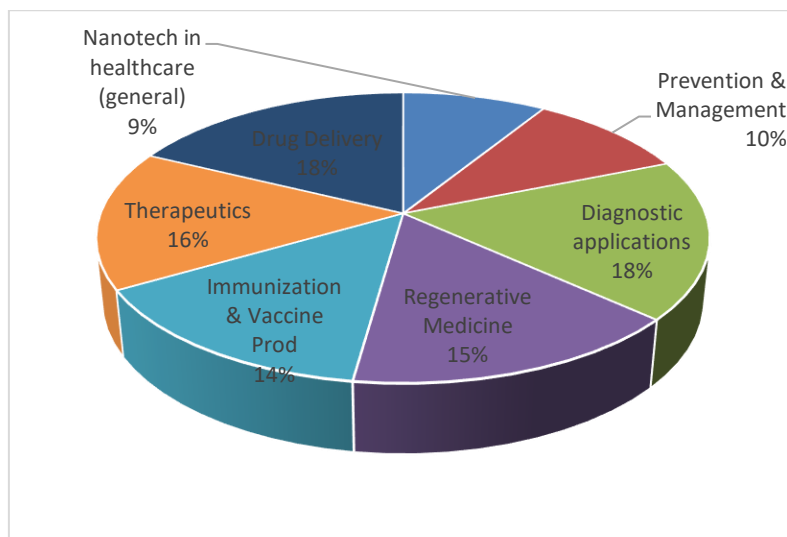


Figure 1. Distribution of references related to various applications in healthcare.

Keywords: patents; naotechnology; heathcare; drug delivery; diagnostics; therapeutics; theranostics; pharmaceutical composition and pharmaceutical preparation.

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Conflicts of Interest

The authors declare no conflict of interest.