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Natural Polymer Based Drug Delivery System - A mini Review

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ABSTRACT

A drug delivery system is a means to deliver therapeutic agents to its target site. For this purpose, natural polymers have been widely explored as the potential vehicles for the encapsulation and delivery of drugs and other bioactive molecules. Because of their inherent properties like biocompatibility, controlled enzyme degradation, specific interactions with some biomolecules, and easy modification, they have an advantage over synthetic polymers to be a versatile vehicle in drug delivery. Natural polymers have large molecular weights, and they come from natural origins such as plants, micro-organisms, and animals. These are continually being explored in innovative approaches to drug delivery and personalized medicines.

Literature was searched on PubMed, Google Scholar, Web of Science and Science direct for studies. Total 45 research papers were studied thoroughly and their data were analyzed before reporting in this chapter. The global trends for skin cancer worldwide through the Global Burden of Disease Study database were also assessed. Previous studies showed the positive