

## NANOPHYTOMEDICINE AND DRUG FORMULATIONS

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### ABSTRACT

Nanophytomedicine is a new emerging area in the field of Ayurvedic Medicine, which allows encapsulating the active phytoconstituents of medicinal plants to treat not only communicable diseases but also non-communicable diseases like cancer and diabetes. Cancer is a deadly disease and the recurrence of cancer is unexpected, because the current therapeutic approaches are unable to effectively deliver the drugs into the tumor environment. The non-specific release of the drug potentially can lead to non-specific cell interactions and they further eventually may damage body's immune surveillance program. Therefore, it is utmost important to identify and encapsulate potential phytochemical constituents induce tumor cell death with minimal side effects. Nano-encapsulated phytoconstituents has shown to increase the bioavailability of water soluble and insoluble therapeutic compounds by adapting various combinatorial drug formulations. The present review discusses about the various kinds of drug formulations for the delivery of active phytoconstituents to treat deadly diseases to human kind.

**KEYWORDS:** Drug Formulation, Nanophytomedicine, Phytoconstituents, Therapeutic Compounds