

## Nanoparticle-based Dual Drug Delivery System

- **TECHNOLOGY:** Therapeutic intervention using a single anti-neoplastic drug has often failed to arrest recalcitrant tumour growth, such as glioblastomas. A dual strategy of delivering chemotherapeutic agent and a nucleotide that inhibits DNA replication in the same delivery vehicle offers higher success rate in fighting such cancers. The current technology comprises of a *dual carrier molecule* having one of the two carrier arms locked sterically at an angle allowing for loading disparate compounds and simultaneously delivering at the target site.
- **DOMAIN:** Drug Delivery Platform
- **APPLICATIONS:** The regimen will be useful in treating malignancies that may become refractive to chemotherapy by providing an additional genetic mechanism of silencing proliferative cues in the aberrant cell
- **ADVANTAGES:** The nanoparticles are found to be non-toxic *in vivo* and are able to demonstrate higher therapeutic benefit than either the chemotherapeutic drug or the nucleotide sequence administered alone
- **IP STATUS:** PCT/ IN2021/ 050170 filed on 22 Feb, 2021

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