

Nanomedicine in the treatment of glioblastomas and neurological disorders

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One of the most promising applications of nanomedicine principles is in clinical neuroscience, particularly in the treatment of glioblastomas and neurological disorders (epilepsy, Parkinson disease; Alzheimer disease, etc.). Here, specially-designed nanoparticles (NPs) delivered by specially-designed nanocarriers are able to cross the blood brain barrier to deliver their payload at pre-defined location(s) according to specified time- and dose-fractionations while remaining unnoticed by the immune system. I will discuss the several NPs utilized and their corresponding clinical

advantages, including: Nutshells (that can be targeted to bond to cancerous cells by conjugated antibodies or peptides to anopheles' surfaces); platelet-coated NPs (that can deliver higher doses of medication drugs to targeted sites, thus greatly enhancing their therapeutic effects); biocompatible and biodegradable gelatin NPs (that can deliver multiple drugs); and shape-shifting engineered NPs (that can be tailored to deliver drugs to specified tumors and nowhere else).

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