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Roles of nanomedicine in clinical neuroscience

One of the most promising applications of nanomedicine principles is in clinical neuroscience, particularly in the treatment of glioblastomas and neurological disorders (epilepsy, Parkinson's disease; Alzheimer's 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).

Biography

Alain L Fymat is a medical-physical scientist and an educator. He is the current President/CEO and Professor at the International Institute of Medicine and Science with a previous appointment as Executive Vice President, Chief Operating Officer and Professor at the Weil Institute of Critical Care Medicine. He was formerly Professor of Radiology, Radiological Sciences, Radiation Medicine (Oncology), Critical Care Medicine and Physics at several U.S. and European Universities. He has extensively published (~ 425 publications) and is Editor-in-Chief, Honorable Editor or Editor of 36 medical-scientific Journals. As invited/keynote speaker and member of organizing committees of international congresses and symposia, he has lectured extensively in the USA, Canada, Europe, Africa and Asia.

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