

عنوان مقاله:

Solid Lipid Nanoparticles as Non-viral Vectors for Gene Therapy

محل انتشار:

اولین کنفرانس ملی نانو از سنتز تا صنعت (سال: ۱۳۹۶)

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خلاصه مقاله:

Several scientific obstacles still have to be overcome before gene therapy becomes a reality. One of them is the development of safe and efficient gene delivery system. While gene therapy is still in the research states, and solid lipid nanoparticles based non-viral systems are showing encouraging results. In this study, we mainly reviewed the recent researches of SLNs characteristics and transport mechanism of SLNs as non-viral gene vector. Here, we address new advances in the use of SLNs as platform for delivery of nucleic acids as therapeutic agents. DNA-SLN vector appear to enter productively by multiple pathways in HeLa cells. We show that the SLNs present high stability, high efficiency in the binding of DNA, and importantly, they have no toxicity when assayed in an in vivo system.

کلمات کلیدی:

Solid lipid nanoparticles, Gene therapy, Non-viral vector

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