

Special Issue

Recent Advances in Non-viral Vectors Based on Cationic Niosomes for Gene Delivery

Message from the Guest Editors

Nowadays, gene therapy is recognized as a realistic medical option to address some devastating diseases. However, its application into the regular routine of medical practice is still hampered mainly by the disposition of safe and effective gene carrier systems. In this sense, the development of nonviral vectors for gene delivery has caught the attention of the research community, due to their safer profile, lower cost, and easier production. In any case, gene delivery efficiency of nonviral vectors needs to be improved in order to beat viral vector counterparts and find a place in the gene therapy market. Among the wide variety of nonviral vectors, niosomes have recently emerged as a tunable and flexible platform to transport different genetic cargoes into target cells under different conditions and applications. This Special Issue serves as an overview of the current status, challenges, and future progress opportunities of niosomes in gene therapy.

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