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Therapeutic portion of the introduction in Chapter 1 regarding the development of lipid nanoparticles for siRNA delivery (section 1.2) has been published as a mini-review article: Tam, Y.Y., Chen, S., and Cullis, P.R. (2013). *Advances in Lipid Nanoparticles for siRNA Delivery*. *Pharmaceutics* 5(3):498-507. 4th, 2024
Solid Lipid Nanoparticles: A Modern Formulation Approach ...Solid Lipid Nanoparticles: A Modern Formulation Approach in Drug Delivery System S. MUKHERJEE*, S. RAY AND R. S. THAKUR Department of Pharmaceutics, Krupanidhi College of Pharmacy, Bangalore-560 034, India Running Title: Solid Lipid Nanoparticle Drug Delivery Systems *Address for correspondence: E-mail: Swarup_mukherjee@rediffmail.com 2th, 2024.

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Development of nanoparticles for antimicrobial drug delivery and they were proposed as a drug delivery nanoparticle platform in 1970s [10]. After extensive studies on their fundamental properties including lipid polymorphisms, lipid-protein and lipid-drug interactions, and mechanisms of liposome disposition in 1980s, the application potential of liposomes as a drug delivery vehicle was thoroughly recognized. 3th, 2024
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ABSTRACT: Gene therapy is an exciting field that has the potential to 4th, 2024

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