

Preface

Lipid-based nanoparticles are very small spherical particles composed of lipids. They are a novel pharmaceutical drug delivery system (part of nanoparticle drug delivery), and a novel pharmaceutical formulation. There are many subclasses of lipid-based nanoparticles such as: lipid nanoparticles (LNPs), solid lipid nanoparticles (SLNs), and nanostructured lipid carriers (NLCs). Sometimes the term "LNP" describes all lipid-based nanoparticles. In specific applications, LNPs describe a specific type of lipid-based nanoparticle, such as the LNPs used for the mRNA vaccine.¹

In the present book, ten typical literatures about lipid-based drug delivery published on international authoritative journals were selected to introduce the worldwide newest progress, which contains reviews or original researches on lipid-based drug delivery. We hope this book can demonstrate advances in lipid-based drug delivery as well as give references to the researchers, students and other related people.

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¹ https://en.wikipedia.org/wiki/Lipid-based_nanoparticle