



Review

# Recent Advances in the Use of Vitamin D Organic Nanocarriers for Drug Delivery

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**Abstract:** Nanotechnology, now established as a transformative technology, has revolutionized medicine by enabling highly targeted drug delivery. The use of organic nanocarriers in drug delivery systems significantly enhances the bioavailability of vitamins and their analogs, thereby improving cellular delivery and therapeutic effects. Vitamin D, known for its crucial role in bone health, also influences various metabolic functions, such as cellular proliferation, differentiation, and immunomodulation, and is increasingly explored for its anticancer potential. Given its versatile properties and biocompatibility, vitamin D is an attractive candidate for encapsulation within drug delivery systems. This review provides a comprehensive overview of vitamin D synthesis, metabolism, and signaling, as well as its applications in customized drug delivery. Moreover, it examines the design and engineering of organic nanocarriers that incorporate vitamin D and discusses advances in this field, including the synergistic effects achieved through the combination of vitamin D with other therapeutic agents. By highlighting these innovations, this review provides valuable insights into the development of advanced drug delivery systems and their potential to enhance therapeutic outcomes.

**Keywords:** nanocarriers; vitamin D; VDR; nanoparticles; encapsulation; organic carriers; drug delivery



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## 1. Introduction

Vitamin D is a fat-soluble nutrient that critically contributes to diverse physiological processes within the human body. The role of vitamin D as a prohormone is well established. It serves as a precursor to its active metabolite, calcitriol, which is a lipophilic seco-steroid hormone [1]. Its function is integral to many physiological processes, extending well beyond its traditional association with the regulation of calcium and phosphorus metabolism, and, thus, with bone remodeling [1–3]. For example, vitamin D critically participates in the regulation of immune system responses, as calcitriol enhances the pathogen-fighting abilities of monocytes and macrophages and modulates inflammatory responses [3–5]. Moreover, the binding of calcitriol to its receptor, vitamin D receptor (VDR), in various tissues, results in the regulation of the expression of genes involved in cell growth (e.g., *BCL2*, *cyclin D1*), cell differentiation (e.g., *caudal type homeobox 2*, *CDX2*), immune function (e.g., *interleukin-10* or *nuclear factor kappa B*), and inflammation (e.g., *tumor necrosis factor-alpha*) [3–5]. This has generated significant interest in the potential pathogenic effects of vitamin D on the development and clinical course of autoimmune diseases [6–8]. Emerging research suggests that vitamin D might have anticancer activity through the modulation of cell growth and cell differentiation [9,10]. Recent findings also highlight the role of vitamin D on cardiovascular health, as it affects blood pressure, cholesterol levels, and endothelial function [11]. Additionally, there is growing evidence linking vitamin D to mental health, especially with regard to mood regulation and prevention of depression [12]. Vitamin D is also associated with liver disease, as it modulates immune responses, reduces inflammation, and maintains liver function, potentially mitigating disease progression [13–15]. Furthermore, neuroprotective effects of vitamin D have been

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