

Special Issue

Challenges and Future Trends of Nano-Based Drug Delivery System in the Treatment of Bone Diseases

Message from the Guest Editors

The development of advanced nano-biomaterials and novel pharmacological treatments to effectively treat various bone diseases, including osteoporosis, osteoarthritis, and osteoporotic fractures, presents a substantial challenge for contemporary osteopathology research. Through comprehensive investigations into the molecular and cellular mechanisms underlying bone diseases, the development of targeted therapeutics and advanced drug delivery platforms has emerged as a novel paradigm in the treatment of these conditions. Nanomedicine delivery systems have been extensively utilized within this field, exhibiting exceptional performance. The design and therapeutic application of these delivery systems are advancing rapidly, encompassing areas such as nanomedicine carriers, delivery mechanisms, safety and efficacy evaluations, and the clinical application of nanomedicine materials.

This Special Issue will cover all the advances, challenges, and future perspectives in using nano-based drug delivery system to manage bone diseases (e.g., osteoporosis, osteoarthritis, fracture defect, bone tumors, etc.). Original research articles and reviews are welcome.

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Deadline for manuscript submissions

25 September 2026



Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



mdpi.com/si/218096

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