

Special Issue

Osteoporosis Treatment: Targeting Osteoclast and Osteoblast Function with microRNA Therapeutics

Message from the Guest Editor

Osteoporosis is a common age-related disorder characterized by decreased bone mass and structural deterioration, leading to a heightened risk of fractures. The current treatment options, including bisphosphonates and anti-RANK antibodies, target OCs in order to inhibit bone resorption but are limited by side effects and their inability to fully reverse the disease. Parathyroid hormone (PTH) and parathyroid hormone-related protein (PTHRP) therapies, which enhance OB function, but are hindered by high costs, frequent injection requirements, and a potential risk for osteosarcoma. Anti-sclerostin (SOST) antibodies promote OB differentiation but are also associated with adverse side effects and diminishing effectiveness over time. Thus, there is still a critical need for safe, effective, and durable therapies for osteoporosis. MicroRNAs (miRNAs) represent a promising class of disease-modifying agents for osteoporosis therapy, however, the clinical application of miRNAs must overcome several challenges. Addressing these obstacles will be essential in developing miRNAs as viable therapeutic agents for osteoporosis.

Guest Editor

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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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