

Special Issue

Bone Biology: A Molecular Perspective

Message from the Guest Editor

Bone turnover, which involves resorption followed by replacement by new bone, is a lifelong process. This complex process involves inter- and intracellular signalling between the osteoprogenitor cells and differentiated bone to regulate bone remodelling and growth. Several advances in bone cell molecular biology have provided insight into various skeletal pathologies, providing opportunities for novel therapeutic targets. This Special Issue will cover emerging areas of bone epigenetic regulation by DNA methylation, non-coding RNAs and histone modification and multiple omics including transcriptomes, metabolomics and proteomics. The application of these technologies has led to the identification of macular factors and network, contributing to the pathogenesis of osteoporosis and other metabolic bone diseases.

Guest Editor

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