

Special Issue

Skeletal Homeostasis and Metabolism

Message from the Guest Editor

The maintenance of bone homeostasis is extremely important for bone health. Pathological or physiological changes, such as aging, inflammation, or estrogen deficiency, lead to increased numbers or activity of osteoclasts as well as a decreased numbers of osteoblasts, tilting the balance in favor of bone resorption and causing bone diseases; however, the molecular mechanisms responsible for imbalances between bone resorption and formation in these conditions are not well understood. This Special Issue will summarize and analyze the research progress of bone metabolism in osteoblasts and osteoclasts as well as osteocytes and gain an in-depth understanding of the key regulatory role of bone metabolism in osteogenesis and osteoclast differentiation and function in the maintenance of bone homeostasis, to provide guidance on the treatment of bone-related diseases such as osteoporosis and to facilitate use of this knowledge on the path to discovering pharmacological targets and new drug therapies. In particular, we welcome research covering novel molecular mechanism, new tools on bone research, or any animal studies with clinical relevance.

Guest Editor

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