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Cellular and Molecular Regulation of Bone Remodeling

Guest Editor:

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Deadline for manuscript submissions:
closed (10 May 2022)

Message from the Guest Editor

Dear Colleagues,

Imbalance of bone remodeling caused by the enhanced osteoclastic bone resorption and /or reduced osteoblastic bone formation is the cellular basis of trabecular and cortical bone loss in a variety of bone diseases, including but not limited to osteoporosis, rheumatoid diseases, bone metastatic cancers, aseptic loosening of arthroplasty, periodontal disease. The fate of osteoclasts is determined by the interactions of their monocyte/macrophage progenitor cells with the supporting cells, including osteoblast, mesenchymal progenitor cell (MPC), osteocyte, T cell and B cell through producing cytokines M-CSF, RANKL and OPG. Currently, osteoporosis is still uncurable, although anti-resorptive and anabolic drugs are available, and there are no therapy to reverse or stop the pathological process of OA. The special issue of bone cell biology welcome original research or review articles on the basic, translational and clinical studies that address molecular regulations of osteoclast, osteoblast, osteocyte and chondrocyte as well as their reciprocal interactions with the supporting cells.

Dr. Zhenqiang Yao
Guest Editor

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