Special Issue

Cellular and Molecular Regulation of Bone Remodeling

Message from the Guest Editor

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.

Guest Editor

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Deadline for manuscript submissions

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About the Journal

Message from the Editorial Board

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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).