

Special Issue

Osteoblasts, Osteoclasts and Bone Diseases: Cellular Crosstalk and Therapeutic Opportunities

Message from the Guest Editor

Bone is a dynamic tissue that is continuously remodelled through the coordinated actions of osteoblasts, osteoclasts, and osteocytes. Disruption of this balance leads to various bone diseases, including osteoporosis, osteoarthritis, Paget's disease, and inflammatory bone loss.

Recent research has begun to explore the complex molecular and cellular networks that govern bone homeostasis and has identified key roles for signalling pathways such as RANK/RANKL/OPG, Wnt/ β -catenin, mechanical factors and bone–tissue crosstalk.

This Special Issue invites contributions on the biology of bone cells, mechanisms of bone remodelling, and translational studies targeting skeletal pathologies. We welcome original research, reviews, and methodological advances focusing on cell signalling, transcriptional regulation, epigenetics, biomaterials, therapeutic interventions and bone crosstalk. By fostering a deeper understanding of the cellular mechanisms involved in bone health and disease, this Special Issue aims to support the development of innovative treatments and diagnostic tools for skeletal disorders.

Guest Editor

Dr. Thomas Nicholson

Department of Inflammation and Ageing, School of Infection Inflammation and Immunology, University of Birmingham, Birmingham B15 2TT, UK

Deadline for manuscript submissions

31 July 2026



Cells

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed



mdpi.com/si/241383

Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

[mdpi.com/journal/
cells](https://mdpi.com/journal/cells)





Cells

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed



[mdpi.com/journal/
cells](https://mdpi.com/journal/cells)



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.

Editors-in-Chief

Dr. Alexander E. Kalyuzhny

Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE,
Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch

Biotech Research & Innovation Centre, The University of Copenhagen,
Copenhagen, Denmark

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Cell Biology) / CiteScore - Q1 (General Biochemistry, Genetics and Molecular Biology)

Rapid Publication:

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).