Special Issue

Novel Insights into Bone and Cartilage Biology: Bone Marrow-Derived Stromal Cells

Message from the Guest Editors

With the advancement of medicine and technology, humans are living longer, and healthy ageing has become a significant medical and economic priority. Articular cartilage defects, as well as general wear and tear associated with ageing, lead to high frequencies of osteoarthritis in ageing populations. The focus of this Special Issue is on bone marrow-derived stromal cells (BMSC) and the application of these cells to cartilage and bone repair. BMSC have been shown to have chondrogenic and osteogenic differentiation potential, making them a potential precursor cell for cartilage or bone tissue engineering. In this Special Issue we hope to capture original research or expert perspective reviews of the literature related to BMSC biology, the developmental processes that guide bone and cartilage tissue formation, as well as therapeutic strategies that use BMSC as cell therapies to facilitate bone or cartilage tissue repair. We look forward to receiving your articles and to working with you to establish a meaningful collection of publications on these important topics.

Guest Editors

Dr. Michael Robert Doran

Biologics Engineering, Oncology R&D, AstraZeneca, Gaithersburg, MD 20878, USA

Dr. Kathryn Futrega

National Institute of Dental and Craniofacial Research (NIDCR), National Institutes of Health (NIH), Department of Health and Human Services, Bethesda, MD 20892, USA

Deadline for manuscript submissions

closed (10 January 2024)

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/181156

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

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

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 16 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).