

Special Issue

Frontiers in Chondrocyte Biology

Message from the Guest Editor

The chondrocyte, a mesenchymal progenitor derivative, is the sole cell type found in vertebrate hyaline growth plates and articular cartilage tissues. It is responsible for the development and maintenance of the cartilage extracellular matrix, and responds to both molecular and mechanical cues. Depending on the cues received, the chondrocyte may proliferate, exit the cell cycle, differentiate into a hypertrophic state, or undergo cell death. The underlying mechanisms governing the chondrocyte phenotype involve signaling events that regulate gene expression as well as cellular processes such as metabolism, mitochondrial function, ER integrity, and autophagy, among others. In this Special Issue entitled, "Frontiers in Chondrocyte Biology," we invite submissions on the molecular and biomechanical regulation of the chondrocyte phenotype during development, bone repair, cartilage homeostasis, and joint pathogenesis.

Guest Editor

Dr. Jennifer H. Jonason

Department of Orthopaedics and Rehabilitation, University of Rochester Medical Center, 601 Elmwood Avenue, Rochester, New York 14642, USA

Deadline for manuscript submissions

closed (31 July 2022)



Cells

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed



mdpi.com/si/98310

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, CAPus / 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).