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

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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

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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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