# **Special Issue**

### Molecular and Cellular Regulation of the Skeletal System in Healthy and Pathological Conditions

### Message from the Guest Editors

Molecular pathways and cellular processes regulating the skeletal system play a central role in maintaining lifelong physiological conditions. However, alterations in molecular and cellular processes regulating osteogenic or chondrogenic differentiation impair the skeletal system. In this context, the transcription factors involved in mesenchymal stem cells' commitment towards osteogenic or chondrogenic lineages can be considered as leading agents of cell signaling regulation. The aging process, as well as metabolic and degenerative diseases, may affect bone and cartilage. Mutations affecting the expression of genes involved in the regulation of skeletal development cause several disorders as well. This Special Issue provides a collection of original research and review articles related to the physiological regulation of the skeletal system and its impairment caused by molecular and cellular disruption as well as by mutations of key genes involved in osteogenesis or chondrogenesis.

### **Guest Editors**

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### Deadline for manuscript submissions

closed (31 May 2021)



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*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

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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).