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

Guest Editors:

Dr. Maria Teresa Valenti

Department of Neurosciences,
Biomedicine and Movement
Sciences, University of Verona,
37128 Verona, Italy

Prof. Monica Mottes

Department of Neurosciences,
Biomedicine and Movement
Sciences, Biology and Genetics
Section, University of Verona,
Verona, Italy

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Message from the Guest Editors

Dear Colleagues,

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.



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Special Issue



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6-145 Jackson Hall, 321 Church St
SE, Minneapolis, MN 55455, USA

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Biotech Research & Innovation
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Copenhagen, Copenhagen,
Denmark

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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Contact Us

Cells Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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