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Molecular Processes in Chondrocyte Biology

Guest Editor:

Prof. Dr. Toshihisa Komori
Department of Cell Biology, Nagasaki University, Nagasaki, Japan

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Message from the Guest Editor

The molecular processes of endochondral ossification have been well studied. Chondrocyte differentiation and proliferation are regulated by many transcription factors and signaling pathways. They are also regulated by metabolism and ER stress in chondrocytes. Fate mapping experiments revealed the source of chondrocytes for skeletal growth and the transdifferentiation of chondrocytes to osteoblasts and stromal cells. A number of processes, including chondrocyte hypertrophy, inflammatory processes, and chondrocyte death, are involved in the pathogenesis of osteoarthritis. This Special Issue entitled “Molecular Processes in Chondrocyte Biology” focuses on recent progress in the molecular mechanisms of chondrocyte differentiation and proliferation and cartilage degradation.

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Editor-in-Chief

Prof. Dr. Maurizio Battino
Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

Message from the Editor-in-Chief

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International Journal of Molecular Sciences Editorial Office
MDPI, Grosspeteranlage 5
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