Special Issue

Molecular Processes in Chondrocyte Biology

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.

Guest Editor

Prof. Dr. Toshihisa Komori

Department of Molecular Tumor Biology, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki 852-8588, Japan

Deadline for manuscript submissions

closed (31 January 2020)



International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed



mdpi.com/si/25137

International Journal of Molecular Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 ijms@mdpi.com

mdpi.com/journal/ ijms





International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed





Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

